

Volume I Report

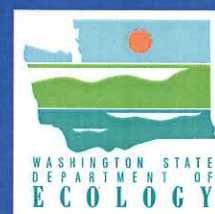
Report

# Water Supply Inventory and Long-Term Water Supply and Demand Forecast

Submitted to:  
Washington State Legislature

Pursuant to RCW 90.90.040

November 15, 2006



Washington State  
Department of Ecology

**WATER SUPPLY INVENTORY**

**AND**

**LONG-TERM WATER SUPPLY AND DEMAND FORECAST**

*Submitted to:*

Washington State Department of Ecology

*Submitted by:*

Golder Associates Inc.  
18300 NE Union Hill Road, Suite 200  
Redmond, Washington 98052

Anchor Environmental  
811 Kirkland Avenue, Suite 200  
Kirkland, WA 98083-2517

November 15, 2006

Ecology Publication No. 06-11-043

This report is available on the Department of Ecology website at:  
<http://www.ecy.wa.gov/biblio/0611043.html>

For a printed copy of this report, contact:

Water Resources Program Publications  
PO Box 47600  
Olympia WA 98504-7600  
E-mail: [WRPublications@ecy.wa.gov](mailto:WRPublications@ecy.wa.gov)  
Phone: (360) 407-6600

Refer to Publication Number 06-11-043

*If you need this publication in an alternate format, please call the Water Resources Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

## TABLE OF CONTENTS

CHAPTER 1: BACKGROUND AND OBJECTIVES	1-1
1.1 History	1-1
1.1.1 The Columbia Basin	1-1
1.1.2 Uses of the Columbia	1-1
1.1.3 John Day/McNary Reserve	1-4
1.1.4 Increasing Attention to Instream Flow	1-4
1.1.5 Columbia River Initiative	1-5
1.2 Columbia River Water Management Program	1-5
1.2.1 Engrossed Second Substitute House Bill (ESSHB) 2860	1-6
1.2.2 Columbia River Water Management Program Components	1-7
1.2.3 Early Activities and Alternatives under SEPA Review	1-8
1.2.4 Twelve-Month Implementation Work Plan for the Management Program	1-9
1.2.5 Goals for this First Legislative Report	1-9
1.2.6 Goals for Future Legislative Reports	1-10
1.3 Report Objectives and Organization	1-10
CHAPTER 2: STAKEHOLDER OUTREACH	2-1
2.1 Introduction	2-1
2.2 Comprehensive Communication Strategy	2-1
2.3 Policy Advisory Group	2-2
2.4 Local Government	2-3
2.4.1 Watershed Planning	2-4
2.5 State Government	2-4
2.6 Federal Government	2-5
2.7 Other State Governments and Canada	2-5
2.8 Tribal Governments	2-6
2.9 State Legislature	2-6
2.10 Specialized Governmental Organizations and Non-Governmental Stakeholders	2-7
2.11 Public Outreach	2-8
2.12 Next Steps	2-8
CHAPTER 3: COLUMBIA RIVER BASELINE ASSESSMENT	3-1
3.1 Introduction	3-1
3.1.1 Columbia River	3-1
3.1.2 Columbia River Tributaries	3-2
3.2 Physical Factors Affecting the Columbia River	3-3
3.2.1 Climate	3-3
3.2.2 Reservoirs and Hydropower	3-4
3.2.3 Navigation	3-5
3.2.4 Land Cover and Land Use	3-5
3.2.5 Agriculture	3-6
3.2.6 Population	3-6
3.3 State Institutional Factors Affecting the Columbia River	3-7
3.3.1 Water Rights and Instream Flow Rules	3-7
3.3.2 Watershed Planning (RCW 90.82)	3-9



3.3.3 Other Ecology Rules and Programs	3-9
3.3.4 Other State Agency Programs	3-11
3.4 Other Institutional Factors Affecting the Columbia River	3-12
3.4.1 Tribal Governments	3-13
3.4.2 Federal Authority	3-14
3.4.3 International Agreements	3-16
3.4.4 Interstate Agreements	3-18
3.5 Monitoring and Forecasting on the Columbia River	3-19
3.5.1 Stream Gages and Reservoir Levels	3-19
3.5.2 Irrigation Demand	3-19
3.5.3 Runoff Forecasts	3-20
 CHAPTER 4: WATER SUPPLY INVENTORY	 4-1
4.1 Introduction	4-1
4.1.1 Overview and Components of the Inventory	4-1
4.1.2 Organization of this Chapter	4-1
4.2 Water Conservation Overview	4-2
4.2.1 Agricultural Production	4-2
4.2.2 Agricultural Water Conservation	4-3
4.2.3 Return Flow from Water Conservation Projects	4-4
4.2.4 Change in Consumptive Use from Water Conservation Projects	4-5
4.2.5 Municipal Water Conservation	4-6
4.2.6 Reclaimed Water	4-7
4.3 Water Conservation Inventory Results	4-8
4.3.1 Conservation District Survey	4-8
4.3.2 Irrigation District Conservation Inventory	4-9
4.3.3 Municipal/County Conservation Inventory	4-10
4.4 Water Storage Overview	4-10
4.4.1 Reservoir Storage	4-10
4.5 Water Storage Inventory Results	4-12
4.5.1 Large Storage Opportunities	4-12
4.5.2 Small Storage Opportunities	4-13
4.5.3 Modification of Existing Storage Facilities	4-13
4.5.4 Aquifer Storage and Recovery	4-14
4.6 Water Rights Overview	4-14
4.6.1 Water Rights	4-14
4.6.2 Inchoate Water Rights	4-15
4.6.3 Trust Water Rights	4-15
4.7 Water Rights Inventory	4-16
4.7.1 Washington Water Rights	4-16
4.7.2 Oregon Water Rights	4-17
4.7.3 Interruptible Water Rights	4-18
4.7.4 Washington Permit-Exempt Water Rights	4-19
4.8 Water Use Overview	4-19
4.9 Water Use Inventory Results	4-20
4.9.1 USGS Water Use Estimates	4-20
4.9.2 Watershed Plan Water Use Estimates	4-21
4.9.3 County Comprehensive Plan Estimates	4-21
4.9.4 DOH Water Use Estimates	4-22

4.9.5 Municipal Water System Plans	4-23
4.9.6 Permit-Exempt Well Water Use Estimates	4-23
<b>CHAPTER 5: WATER SUPPLY AND DEMAND FORECAST</b>	<b>5-1</b>
5.1 Introduction	5-1
5.2 First Tier Water Demand Forecast	5-2
5.2.1 Irrigation	5-2
5.2.2 Domestic	5-2
5.2.3 Commercial/Industrial	5-3
5.2.4 Environment and Wildlife	5-3
5.2.5 Undefined	5-3
5.2.6 Total Demand Based on Water Right Applications	5-3
5.2.7 Comparison to Conservation Potential	5-3
5.2.8 Comparison to Storage Potential	5-5
5.2.9 Comparison to Supply	5-6
5.3 Second Tier Water Demand Forecast	5-6
5.3.1 Agricultural Sector – WSU Survey	5-6
5.3.2 Agricultural Sector – USGS Water Use	5-8
5.3.3 Municipal Sector (Domestic and Commercial/Industrial)	5-9
5.3.4 Comparison of First Tier and Second Tier Demand Projections	5-10
5.3.5 Comparisons to Existing Water Rights and Existing Storage	5-11
5.4 Conclusions	5-12
<b>CHAPTER 6: REFERENCES</b>	<b>6-1</b>
<b>CHAPTER 7: GLOSSARY, ACRONYMS AND ABBREVIATIONS</b>	<b>7-1</b>

### LIST OF TABLES

Table 1-1	Federally Listed Fish Species under the ESA in the Columbia River Basin
Table 3-1	Major Tributaries of the Washington Portion of the Columbia River
Table 3-2	Columbia Basin Land Cover Characteristics by County
Table 3-3	Land Use in the Management Zone
Table 3-4	Population Summary
Table 3-5	Key Washington and Federal Water Regulations
Table 3-6	Mainstem Columbia River and Snake River Instream Flow Requirements
Table 3-7	Existing and Proposed Instream Flow Requirements for Tributaries to the Columbia River
Table 3-8	Status of Watershed Planning in the Columbia Basin
Table 3-9	Columbia River Treaty Tribes, Columbia/Snake River TMDL Tribal Contacts, and Tribes with Land in the Washington portion of the Columbia River Basin
Table 3-10	Minimum Daily Dam Outflows and Flow Targets for Bonneville, McNary and Priest Rapids Dams
Table 3-11	Federal Hydro System Operations for Fish
Table 3-12	Key International and Interstate Agreements
Table 3-13	Columbia River Monitoring Network – Mainstem
Table 3-14	Columbia River Monitoring Network - Tributaries
Table 3-15	Columbia River Basin Water Forecasting Activities

Table 3-16	Data Sources for Climate, Water Supply and Streamflow Prediction
Table 4-1	Documents and Databases Reviewed to Develop the Baseline Assessment and Inventory
Table 4-2	Summary of Irrigation Application Efficiency Ranges, Consumptive Use, and Return Flows
Table 4-3	Municipal Conservation Summary
Table 4-4	Allowable Reclaimed Water Class Types for Various Reclaimed Water Uses
Table 4-5	Potential Conservation District Projects by County
Table 4-6	Summary of Water Conservation Projects Obtained from Conservation Districts
Table 4-7	Potential Irrigation District Water Conservation Projects
Table 4-8	Municipal Conservation and Reuse
Table 4-9	Federal Dam Storage by County and Purpose of Use
Table 4-10	Non-Federal Dam Storage by County and Purpose of Use
Table 4-11	Potential Large Storage Opportunities
Table 4-12	Potential Small Storage Opportunities
Table 4-13	Washington Water Right General Use Designations
Table 4-14	Total Existing Washington Water Rights within the Management Zone
Table 4-15	Oregon Management Zone Water Records
Table 4-16	Interruptible Water Rights within the Management Zone
Table 4-17	Estimate of Permit-Exempt Wells within the Management Zone
Table 4-18	USGS Water Use Classifications and Year 2000 Results by County
Table 4-19	Current and Future Water Use as Reported in Watershed Planning Documents
Table 4-20	Comprehensive Plan Summary for Counties along the mainstem of the Columbia River
Table 4-21	Columbia Basin Public Water System Water Use Summary by County
Table 4-22	Summary of Public Water System Connections in the Management Zone
Table 4-23	Columbia Basin Residential Water Use by County
Table 5-1	New Water Right Applications within the Management Zone, Designated Agriculture
Table 5-2	New Water Right Applications within the Management Zone, Designated Domestic
Table 5-3	New Water Right Applications within the Management Zone, Designated Commercial and Industrial
Table 5-4	New Water Right Applications within the Management Zone, Designated Environment and Wildlife
Table 5-5	New Water Right Applications within the Management Zone, Designated Undefined Use
Table 5-6	Tier 1 Monthly Water Use Forecast
Table 5-7	Forecasted Growth in Crops
Table 5-8	Tier 2 Annual Water Use Forecast
Table 5-9	Comparison of First and Second Tier Demand Forecasts

## LIST OF FIGURES

Figure 1-1	Columbia River Basin
Figure 2-1	Columbia River Basin Local Jurisdictional Boundaries
Figure 3-1	Management Units of the Columbia River
Figure 3-2	Columbia Basin Flows
Figure 3-3	Columbia River Large Hydropower Dams
Figure 3-4	Average Monthly Outflow for Priest Rapids, McNary, and Bonneville Dams, Average and Dry Water Years
Figure 3-5	Columbia Basin Land Cover Characteristics
Figure 3-6	2006 OFM Population Estimate

Figure 3-7	Minimum Daily Outflows and Flow Targets for Priest Rapids, McNary and Bonneville Dams
Figure 3-8	Status of Watershed Planning in the Columbia Basin
Figure 3-9	Odessa Subarea
Figure 4-1	Conservation and Storage Inventory Results
Figure 4-2	Total Federal Dam Storage by County
Figure 4-3	Total Non-Federal Dam Storage by County
Figure 4-4	Map of Columbia Basin Project
Figure 4-5	Total Water Rights in the Management Zone
Figure 4-6	Estimate of Permit-Exempt Wells in the Management Zone
Figure 4-7	Shape Factors
Figure 4-8	Year 2000 USGS Total Water Use Estimates by County
Figure 4-9	Total Number of Group A and Group B Water System Connections
Figure 4-10	Total Number of Group A and Group B Water System Connections within the Management Zone
Figure 5-1	Water Right Applications in the Management Zone
Figure 5-2	Total Demand Based on Water Right Applications
Figure 5-3	Monthly Water Demand Based on Water Right Applications
Figure 5-4	Total Crop Acreage Forecast
Figure 5-5	Range of Potential Future Irrigation Water Demand in 2025
Figure 5-6	2025 OFM Population Forecast
Figure 5-7	Projected Total Water Use Increase (2000 – 2025)

## LIST OF APPENDICES

Appendix A	– Stakeholder Comments
Appendix B (Chapter 3)	– Columbia Basin Baseline Assessment
Appendix C (Chapter 4)	– Water Supply Inventory
Appendix D (Chapter 5)	– Water Supply and Demand Forecast



## *A LETTER FROM JAY MANNING*

November 2006

The Honorable Christine Gregoire, Governor  
and Honorable Members of the Washington State Legislature  
Olympia, Washington

Dear Governor Gregoire and Ladies and Gentlemen:

With the passage of House Bill 2860, the State of Washington is fundamentally changing how the state manages water in the Columbia River. By enacting this landmark legislation, the Legislature and the Governor endorsed a new mission for the Department of Ecology: to aggressively pursue new water supply in the Columbia Basin that benefits the state's economy, communities, and natural environment. The new law has broken through decades of legal and administrative gridlock and is backed by a significant financial investment.

The law links the state's efforts to address instream and out-of-stream needs so that progress for one results in progress for both. It also emphasizes the importance of local and tribal governments, water users, the environmental community, federal agencies, and other stakeholders in developing a long-term, integrated and strategic water supply plan for the Columbia River. At the same time, the law asks these decision-makers to work across jurisdictional boundaries to address a variety of needs: fish and agriculture, economy and environment. And it creates a model that rewards collaborative effort with the promise of timely and sustainable results.

This report describes the state's new approach to managing the Columbia's water resources. To meet the promise of the law, the new program must improve the availability and reliability of water during the times of the year that it is needed most, and this report documents our efforts to create an effective, efficient, and equitable program.

This report is a beginning: presenting a first look at what water is being used now, what water may be needed in the future, and what the state can do to secure reliable and cost-effective supplies. Over time, we will need to refine our strategies and our investments as we develop a more sophisticated understanding of how to manage Columbia River water. We must also keep a watchful eye on future risks to water supplies from the Columbia River, including emerging demands from our own growing population and economy, new uses in neighboring states and Canada, the potential effects of actions taken by the Federal Columbia River Power System, and the threats posed by a changing climate.

The Honorable Christine Gregoire  
and Honorable Members of the Washington State Legislature  
November 2006  
Page Two

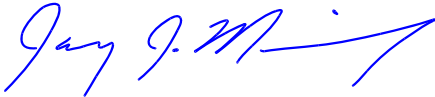
For the present, we must quickly deliver on-the-ground results in the Columbia Basin. A great deal of work lies ahead, for both Ecology and our partners, but I am extremely pleased by and proud of our progress to date:

- Policy Advisory Group successfully formed
- \$18 million committed to supply evaluation studies
- 4 mainstem storage sites selected for further study
- Supply & Demand/ Inventory reports on schedule
- DEIS prepared and released in 111 days
- 2000 acres of Odessa to receive water – Spring 2007
- Potholes supplemental feed route test in upper Crab Creek underway

Already, we are aggressively pursuing a number of cost-effective water supply projects to improve reliability now and in the future. We will issue new water rights and concurrently ensure that promised benefits for the natural environment are in place. We are developing the data and management capacity to demonstrate and maintain our success over time.

In closing, I offer my gratitude to the members of the Columbia River Policy Advisory Group who are investing long hours to ensure that Ecology's implementation of the law is consistent with its spirit. I would like to express my appreciation to tribal governments and their staff who have joined in this effort in good faith. In addition, I would like to thank the many other stakeholders who have spent years advocating for their needs and interests, and the ways in which environmental and economic water uses might begin to complement each other. We will need assistance from all of these partners, and many others, in order to achieve the promise of this new program.

Sincerely,



Jay J. Manning,  
Director

## EXECUTIVE SUMMARY

This first legislative report under the Columbia River Water Management Program (Management Program) is an opportunity to share the first steps towards implementing Engrossed Second Substitute House Bill (ESSHB) 2860, codified in RCW 90.90. The Legislature set an ambitious schedule for this report and, since the legislation became effective on July 1<sup>st</sup>, Ecology has hit the ground running. The scope of this report includes two key elements required in RCW 90.90.040:

- A Columbia River water supply inventory (due November 15<sup>th</sup>, 2006 and updated annually); and
- A Columbia River long-term water supply and demand forecast (due November 15<sup>th</sup>, 2006 and updated every 5 years).

ESSHB 2860 prioritizes Washington State's water needs from the Columbia River, focusing Ecology's efforts on supplying water to fulfill the need to:

- Replace ground water use from the Odessa Subarea aquifer;
- Approve pending water right applications;
- Convert interruptible water rights to uninterruptible water rights; and
- Issue new municipal, domestic, industrial and irrigation water rights.

In order to supply these needs, the Management Program described by ESSHB 2860 involves funding storage and conservation activities that will result in water savings to the mainstem of the Columbia River. However, before projects can be funded, they first must be identified.

"The legislature finds that a key priority of water resource management in the Columbia River Basin is the development of new water supplies that includes storage and conservation in order to meet the economic and community development needs of the people and the instream flow needs of the fish."

*ESSHB 2860, Section 1(1)*

### ***Columbia River Water Supply Inventory***

The inventory presented in this report is an important component of the legislation. Ecology's mission to aggressively pursue new water supplies in the Columbia Basin that benefit the state's economy, communities, and natural environment includes storage and conservation as tools to develop the new water supplies. The inventory is intended to identify and describe the range of projects available to meet these goals, and allows them to be screened and ranked. The inventory provides the foundation for making the best use of funding provided by the Legislature.

### ***Long-Term Water Supply and Demand Forecast***

The Columbia River is a dynamic regional water course. Its management is complex and multi-jurisdictional, involving multiple state, local, and tribal jurisdictions, as well as multiple border jurisdictions such as Canada, Idaho, and Oregon. Over time, changes in international or interstate agreements, or changes in climate or other factors, may affect the timing and quantity of water flowing in the Columbia River. Population growth, economic development and

other changes in demand for water from the Columbia River will also affect the water budget. In this dynamic environment, keeping abreast of these changes is especially important. As a result, Ecology has been directed to provide periodic updates to the legislature on the water supplies and demand and will make forecasts to aid recommendations for the future. This will help ensure that as changes come, the State of Washington will be better prepared for those challenges.

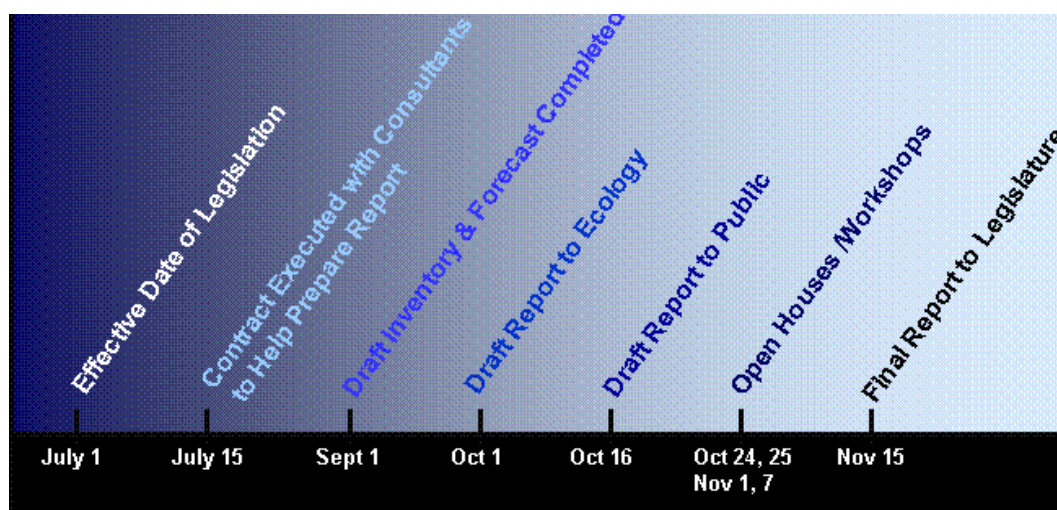
### **Report Schedule**

This report marks the culmination of an aggressive 4 month effort by Ecology to meet the requirements of RCW 90.90.040. Given the time available from the enactment of the statute to the completion of this inventory and water supply and demand forecast, Ecology determined that it was critical to contract portions of this work with organizations with expertise in the subject at hand, i.e. irrigated agriculture, water supply and use, and

conservation. Golder Associates Inc., Anchor Environmental, the Washington State Conservation Commission and Washington State University were selected and each contributed substantially to the information presented in this report. The figure below shows the schedule for completing this report and submitting it to the legislature.

### **Public Involvement**

A central element in the success of the Columbia River Water Management Program continues to be collaboration and transparency with the full range of partners, stakeholders, and governments that have an interest in the Columbia River. To that end, Ecology has developed a comprehensive communication strategy that it will implement over the next year to ensure a high level of public involvement in the Management Program. The following are key portions of the strategy that are raising awareness on this fast-moving program.



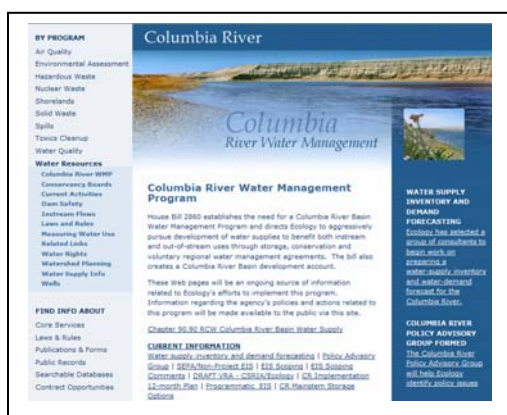
*Long-Term Supply and Demand Forecasting Report Completion Timeline*



## Columbia River Policy Advisory Group

The Columbia River Policy Advisory Group (PAG) is a group of diverse Columbia River stakeholders that will help Ecology identify policy issues associated with implementing the Management Program, provide Ecology with a range of perspectives on policy choices and priorities, and assist Ecology in setting criteria for funding storage and conservation projects. The PAG meets monthly and membership and meeting information is available on Ecology's website:

[http://www.ecy.wa.gov/programs/wr/cwp/crwmp\\_info.html#policyadvisory](http://www.ecy.wa.gov/programs/wr/cwp/crwmp_info.html#policyadvisory).



*Columbia River Water Management Program Website*

## Watershed Planning Units

The Legislature has made a significant investment both in watershed planning and in the Columbia River Water Management Program. Harmonizing these efforts is a key theme in the legislation. To that end, Ecology:

- Has engaged the initiating governments for watershed planning through the PAG and through monthly County Commissioner meetings.

- Has used watershed plans as a source of information for this report.
- Has developed and implemented a training program for its watershed leads to carry the Columbia River message to the planning units.
- Will continue to consult with watershed planning units in the future as elements of the Management Program are implemented.

## Public Notice and Public Workshops

Ecology's public involvement efforts over the last 3 ½ months have been inclusive. Ecology created a Columbia River website showcasing its efforts on this legislative report and created an email listserv to provide regular updates on its progress. A press release described the goals of the report and a direct mailing to key stakeholders raised awareness on the project scope and timeline. Ecology also held four open house workshops to receive comments on the draft report. These coincided with the release of the draft Programmatic Environmental Impact Statement (EIS) for maximum visibility and coordination.

## Inventory of Conservation and Storage Projects

The inventory of conservation and storage projects is the foundation of the Columbia River Water Management Program. Conservation and storage (both new storage and modification of existing facilities) are options Ecology has been directed to explore in order to meet future demand. Conservation can offer immediate benefits for both existing and prospective water users. Storage, the other component of the Management Program, offers long-term capability to adapt to changes in water demand

forecasted for Washington, and may moderate some of the effects of global warming.

Ecology plans to take a portfolio approach to identify funding opportunities from the inventory that will result in an increase in water supply to the Columbia River mainstem.

Ecology is in the process of working with the PAG to develop selection criteria that it will use to choose projects from the inventory to fund. The criteria will include topics such as the cost-effectiveness, reliability, sustainability, and types of benefits that may accrue from the project. In addition, the selection process will include evaluating and comparing a full range of alternatives based on an economic and environmental review. Ecology will also consider the funding cycle required by the project so that it can maintain a predictable funding cycle. The Legislature will have the opportunity to review projects funded under the Management Program through annual legislative report updates.

A few projects and studies have already begun under the auspices of the Management Program:

- Odessa Study
- Potholes Study
- Mainstem Storage Study
- Lake Roosevelt Drawdown Study
- Walla Walla Pump Exchange Study

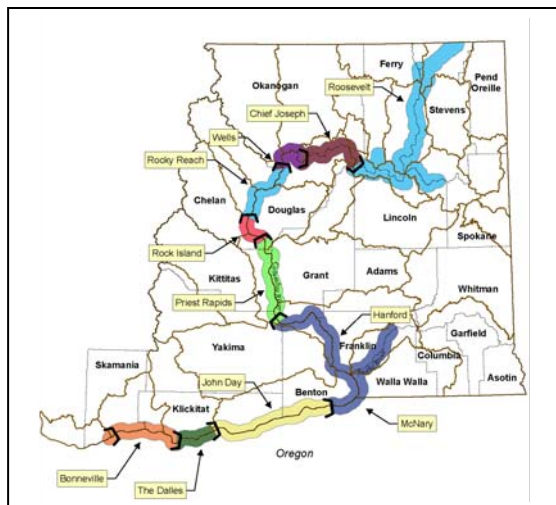
Supporting feasibility and permitting documents for these potential projects are expected to be completed between 2006 and 2010, depending on the individual project.

Additionally, consideration of the feasibility of pump exchange opportunities in the Yakima

Basin is also identified in the Columbia River legislation. Ecology is currently coordinating with Bureau of Reclamation on a Yakima River pump exchange feasibility study along with the Yakima Basin Storage Study.

### ***Management Units***

Defining appropriate geographic units to organize the large amount of relevant water resources information for the Inventory was challenging and will likely continue to be an issue for the Columbia River Water Management Program. Water resources information is compiled, aggregated, and reported at different physical and socio-political scales—by state, County, WRIA, tributary, river reach, service area, irrigation district, and other spatial units. The ability and authority to manage water resources varies at similar scales. An important goal of the inventory and forecast was to compile and present information at a common scale, where conservation, storage, water use, and water availability data are comparable and consistent. After reviewing the various forms of data available, a County scale was selected as the most common management unit for available water-related data because nearly all of the available information can be presented and aggregated by County. In some cases, the information can also be presented for the one-mile zone around the Columbia River for each County. WRIA reaches that divide the Management zone by WRIA boundaries are a secondary management unit. There was not sufficient information compiled by WRIA to use them as primary geographic units. Pool reaches (the reach of the river between two dams) are a third management unit.



*Geographic Management Units for the Columbia River (County, Pool Reach, WRIA, Pool)*

## Conservation Projects Inventory

Ecology's initial effort at developing an inventory has yielded more than 5,000 potential agricultural conservation projects. The projects, identified through surveys conducted by the Washington State Conservation Commission and through existing Irrigation District Planning documents, have the potential to save almost 1 million acre-feet of water.

About half of the conservation districts in the region participated in the survey and, together, identified over 5,000 potential conservation projects. The majority were on-farm conservation projects. Several canal lining/piping projects were identified and a variety of other projects were identified including tailwater reuse, storage, irrigation water management, surface to groundwater conversion, and water right purchase projects. The total estimated water savings (consumptive and non-consumptive) from projects identified by the Conservation Districts are approximately

530,000 acre-feet with a total estimated cost of \$663,000,000. The average cost per acre-foot for the projects is approximately \$1,250.

### Conservation District Inventory Results

- 5,315 projects
- Approximately 530,000 acre-feet of estimated water savings (consumptive and non-consumptive)
- Total estimated cost of \$663,000,000
- Average cost of \$1,250 per acre-foot

Over eighty projects or groups of projects were identified through the irrigation districts. Most were lining/piping projects, followed by storage or re-regulation reservoir projects, water management projects, and on-farm water conservation projects. The total estimated water savings are approximately 425,000 acre-feet with a total estimated cost of \$450,000,000. The average cost per acre-foot for the projects is approximately \$1,100.

### Irrigation District Inventory Results

- 82 projects
- Approximately 425,000 acre-feet of estimated water savings (consumptive and non-consumptive)
- Total estimated cost of \$450,000,000
- Average cost of \$1,100 per acre-foot

The two important considerations for the agricultural conservation inventory are: 1) the costs and water savings presented should be viewed as preliminary and used only to screen or compare projects within the inventory; and 2) the volume of water conservation that is likely to actually accrue to the Columbia River is currently expected to be less than the total volume from the conservation opportunities that have been identified. This result is likely because of a variety of challenges with the

delivery of conserved water to the mainstem of the Columbia River.

Potential municipal conservation projects were identified by reviewing water system plans of the largest municipalities within the Management Zone. An inventory of the Washington Department of Health's (DOH) database on Group A and Group B water systems was also conducted. Finally, a review of water reuse in Washington was prepared, including demonstration projects. The total conservation potential from municipal entities is difficult to estimate. Actual reported volumes of conservation are much lower than what was identified for agriculture, but it is likely that municipal conservation is under-reported in existing documents. It is expected that future inventory reports to the legislature will include more ambitious and comprehensive estimates of municipal water conservation savings in response to the requirements of the Municipal Water Bill.

While the initial number of potential conservation projects is encouraging, subsequent reports are expected to generate many more conservation projects as additional sources of information are investigated over a longer review period. Ecology's next challenge is to identify which of the inventoried projects best balance the program goals of benefiting instream resources and mitigating new permits from the Columbia River.

### ***Storage Projects Inventory***

New large-scale storage projects have long been contemplated in Eastern Washington. The

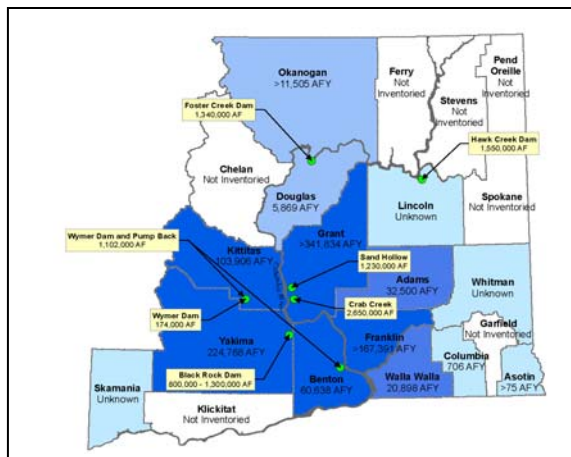
Columbia River bill recognized the compelling need to consider storage projects as a part of a portfolio strategy for water supply. In this report, storage inventory results were split into categories consistent with the Draft Programmatic EIS for the Management Program: new large storage facilities (> 1 million acre-feet), new small storage facilities (< 1 million acre-feet), modification of existing storage facilities, and aquifer storage and recovery (ASR). Ecology is creating a funding framework that will allow for large and small storage projects to be screened and ranked along with conservation projects to develop new water supplies for the Columbia River.

All of the current large storage options proposed by Ecology and the U.S. Bureau of Reclamation are currently undergoing feasibility studies. The funding, operation, and beneficial uses of these projects have yet to be determined. The large projects inventory includes four projects on the Columbia River (Hawk Creek, Foster Creek, Sand Hollow, and Crab Creek) and two projects on the Yakima River (Black Rock Reservoir and Wymer Reservoir with Columbia River Pumpback). The purposes being contemplated in the Yakima Basin Storage Study include improving instream flow and out of stream supply in the Yakima Basin.

#### **Storage Inventory Results**

- 6 storage opportunities (>1 million acre-feet), cost ranging from \$971 to \$4,000 million
- Numerous small (<1 million acre-feet) storage opportunities, many of which did not have a volume or cost estimate





*Potential Conservation Water Savings  
and Large Storage Opportunities*

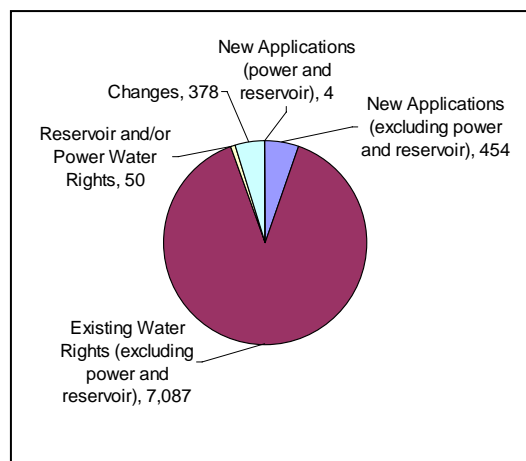
There are a number of small surface storage and aquifer recharge storage projects that also have the potential to meet program goals. These projects were identified primarily through WRIA storage assessment reports. The total volume of potential small storage projects is difficult to estimate. Actual reported volumes are generally lower than what is identified for large projects, but many of the projects are only identified and described in very general terms. It is likely that small storage projects are under-reported in existing documents, and it is expected that future inventory reports will include more ambitious and comprehensive estimates of small storage.

Development of the storage projects identified in the inventory would improve water management capabilities within the Columbia River system. However, a more detailed analysis of each storage project in relation to water demands and the ability to manage demand through conservation is necessary before determining benefits of the projects to the Columbia River. Future legislative reports will summarize the

status of the feasibility and environmental reviews being performed for new storage facilities.

## Water Rights Inventory

Current demands made of the Columbia River encompass every beneficial purpose of use considered by the Legislature: power, agricultural, municipal, industrial, commercial, fisheries, recreation and many more. There are 7,087 existing water rights on file in Ecology's water rights database within the Washington portion of the Management Zone, excluding reservoir and power water rights. On paper, these 7,087 water right holders represent an existing demand of more than 8 million acre-feet. Current actual use is probably less than this amount, and the validity of these water rights was not determined as part of this assessment.



*Number of Washington water rights,  
applications, and changes in the Management  
Zone*

Agriculture uses account for over 79% of the water right quantity in the Management Zone in Washington State. The largest number of water rights is associated with domestic uses, but the

quantity of these rights accounts for only about 7% of the total quantity of water rights issued in the Management Zone in Washington State.

#### Water Rights Inventory Results

- 7,087 water rights in the Washington portion of the Management Zone totaling 8,194,586 acre-feet per year
- 551 water rights and applications in the Oregon portion of the Management Zone totaling 936,190 acre-feet per year

There are a total of 551 records in the Management Zone for Oregon with a total annual quantity of 936,190 acre feet per year (AFY). This value does not include 116,776 AFY of supplemental irrigation and 5,927,321 AFY of instream non-consumptive uses.



*Total Volume (AFY) of Existing Water Rights in the Management Zone*

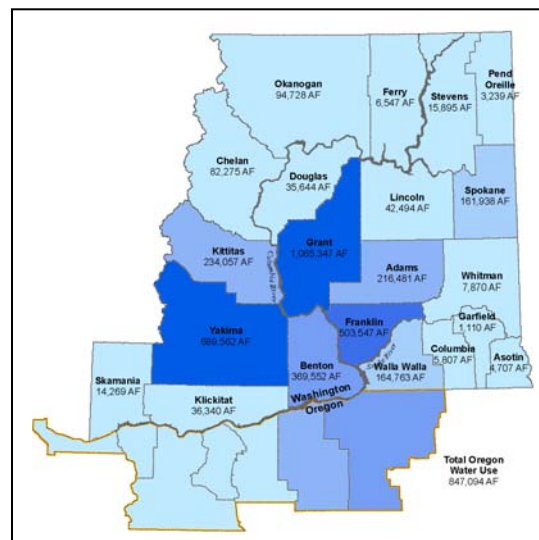
## Water Use Inventory

Water use estimates are available from a variety of sources. The USGS conducts a water use inventory every five years, with the last available inventory from the year 2000. Results of the USGS 2005 water use inventory are expected in 2007. Municipalities update water

use every 6 years through their water system plans. Irrigation Districts and other irrigators monitor and report water use in a less prescribed manner. Most WRIA watershed plans contain some information on water use. Because of the disparity in the distribution and consistency of water use information, this initial report relies on the USGS water use estimates to draw comparisons, because they are the most comprehensive and consistent estimates currently available. Total water use in the twenty-one counties in Washington State for the year 2000 was estimated at about 3.8 million acre-feet. The seven counties on the Oregon side of the Columbia River had an estimated use of less than 900,000 AF. It is not possible to determine how much of the water in each of those counties is used within the Management Zone.

#### Year 2000 USGS Water Use Estimates

- Washington (21 counties): 3,756,172 AF
- Oregon (7 counties): 847,094 AF



*Year 2000 USGS Water Use Estimates*

The 2000 USGS water use estimates indicate that the largest water use in the Columbia Basin

is irrigation and that irrigation use is concentrated in counties in the Management Zone.

## Long-Term Water Supply Forecast

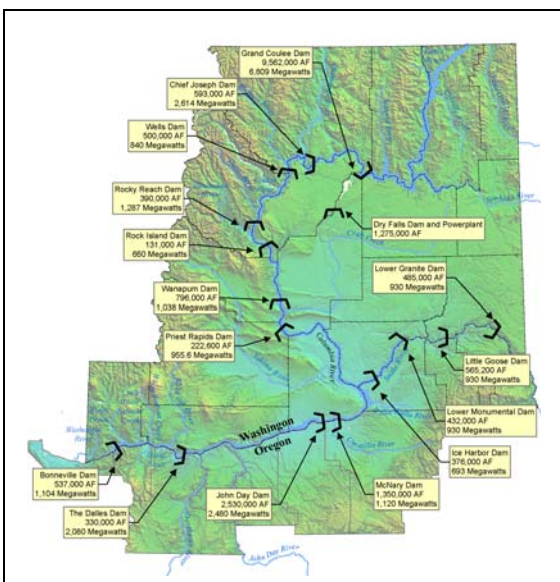
Water supply in the Columbia River varies on many times scales. Fluctuations in river discharge occur hourly in response to changing power demand, daily in response to changes in tributary contributions, monthly as demands of water users vary, seasonally to meet flood control requirements and annually as climate alters the Columbia River watershed hydrograph. The flow regime of the Columbia River has been characterized and simulated extensively by various researchers, hydropower operators, and agencies involved in managing the river.

The existing river management framework, including power management objectives, federal biological opinion salmonid flow targets, gaging and monitoring stations, and regional regulatory issues are described in this report. Of particular interest is the difference between State and Federal management frameworks. On one hand, in-stream flow requirements for the mainstem Columbia managed by the State of Washington differ significantly from Federal flow “targets” specified for fisheries management under the Biological Opinion (BiOp) for Columbia River fisheries. Conversely, instream flow requirements for the major tributaries to the Columbia, also managed by the State, are not uniformly addressed at the Federal level. In addition to Federal hydropower objectives, there is also a Federal component to irrigation. The Columbia Basin Project (CBP) is a major

irrigation project supplying water to over 600,000 acres of land, with the potential to develop an additional 400,000 acres. The effect that these projects have on streamflows in the Columbia River, in relation to the inherent jurisdictional constraints of the Columbia Basin Management Program is a significant element of the future water supply in the region.

Consideration of tribal treaty water rights also must be a part of any management decision concerning the Columbia River. While ceding title to land under treaty, tribes reserved certain rights including the right to hunt and fish in usual and accustomed places (U&A’s). These are rights that were held by the tribe before treaty time and reserved through treaty provisions. Hunting and gathering rights, not yet defined by federal courts, are not limited by the drainage basins and may not exactly correspond to the U and A’s associated with fishing rights. Tribes assert that the treaty reserved right to fish carries with it the implied right to have water in off-reservation streams sufficient to ensure the survival of harvestable numbers of fish.

Interstate and international agreements are another consideration affecting future supply. Although international agreements with Canada and interstate agreements with Idaho and Oregon are present in varying forms, the specificity of those agreements in terms of flow volume has varying levels of predictability. Coupled with the potential for natural changes in snowpack and run-off from climate change, the future supply of water in the Columbia River is not well defined at this time.



*Columbia Basin Large Hydropower Dams*

## Long-Term Water Demand Forecast

Cities on the Columbia River are planning for population growth over the next 20 years or more. The agricultural sector will continue to evolve to stay competitive in a global economy, and power will be needed for future homes and businesses. Concurrently, efforts to improve conditions for fisheries and aquatic health in the Columbia River system are a high priority and significant, both in terms of investment of resources and in terms of what the future hydrology of the Columbia River should be.

The initial water demand forecast was carried out in two formats or “tiers”. The first tier demand forecast is based solely on water right applications on file in Ecology’s WRTS database as of July 2006. While all of the pending applications for new water rights from the Columbia River may not represent viable projects by current applicants (some are 20 years old) and some applications may not be

approved, use of this data is a conservative surrogate for actual demand. Ecology is in the process of verifying the location and characteristics of the applications in the one-mile Management Zone. As Ecology’s data integrity improves and as new applications are received, the number of applications and their projected demand will change. The second tier demand forecast is based on projections of estimated actual water use, and focuses more on “wet” water.

The approach used for the forecasts is not analytically sophisticated and, ultimately, additional work at both the inventory level and the forecasting level is needed. However, there are some meaningful observations that can be made with respect to forecasting demand on the Columbia River, and there are decisions to be made by Ecology and other stakeholders in the basin regarding how to further develop forecasting capabilities in the future and then act on them.

### ***First Tier Demand Forecast***

The total demand for water based on water right applications within the 1-mile Management Zone is estimated at approximately 383,000 acre-feet per year.

#### **First-Tier Demand Forecast Estimate**

- 454 water right applications
- 383,000 acre-feet

About 56% of that demand is associated with requested irrigation of just over 57,000 acres of land. About 23% of that demand is for municipal/domestic purposes, which could support an additional population of just over



450,000 people. About 21% of that demand is for commercial and industrial purposes, providing a peak demand of 230 cubic feet per second (cfs).

**Agricultural demand compared to potential conservation**

- Water Demand Estimate: 211,232 AF
- Potential Conservation: 970,000 AF



*Total Number of Water Right Applications in the Management Zone*

Agricultural water demand associated with water right applications in the Management Zone are estimated at about 211,323 AF, and interruptible agricultural water rights constitute at least an additional 163,000 AF. Potential total conservation amounts are currently estimated at 970,065 AF. While the annual volume of potential conservation relative to pending water right applications is encouraging, there are three important considerations:

1. Only a small portion of the annual conservation potential is likely to accrue directly to the Columbia River. The proportion of conserved water that would

accrue to the Columbia River cannot be determined accurately with available data. Some of the projects identified may result in a high proportion of accrual while others may be very low or negligible because the savings are largely non-consumptive.

2. The 970,000 AF total annual amount of conservation is distributed on a monthly basis, and it is this “instantaneous” amount of conserved water that would need to be “credited” during the peak irrigation season to offset new water rights. After factoring out potential non-consumptive savings described above, this leaves less conservation volume available during the peak irrigation season.
3. Finally, the time lag between a point of withdrawal or conservation and return flow to the Columbia River creates a complex time-varying relationship for determining the benefits of conservation to streamflows. This will further reduce the amount of water conservation savings that would offset new demands from the Columbia River during the peak irrigation season.

The appropriate factors to determine what portion of conservation savings actually accrues to the Columbia are not well defined, particularly on an aggregate basis. However, Ecology’s goal is to match individual conservation projects and water right applications such that conservation savings will provide a basis for processing new water rights.

Agricultural conservation should be matched to specific water right requests on a case-by-case basis to determine the applicable volume of a new water right.

Ecology expects that the inventory of potential conservation projects will expand in subsequent reports. As identification of additional conservation opportunities in future inventories increases, so to does the likelihood that

conservation volumes could offset existing water right applications and interruptible water rights. However, it seems likely that both storage and conservation will be necessary to meet the forecasted agricultural demand for the Columbia River.

**Municipal/Domestic demand compared to water right applications**

- Water Right Applications: 86,849 AF
- Equivalent population in water right requests: 450,000

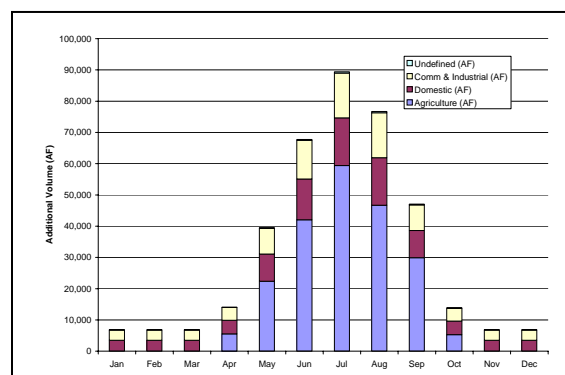
Residential water right applications total an estimated 86,849 AFY. This amount could support an additional population of 450,000 people, assuming 170 gpd per person. Providing water for new population can be considered in two ways:

1. A portion of the new population associated with these water right applications could possibly be served by “maximizing” the capacity of existing rights (through conservation) to meet new demands. This is essentially new population that may not require new water rights.
2. Some portion of the growth served through new water rights could also be permitted through “credits” from new conservation and wastewater treatment/reclaimed water facility return flows. This is essentially new water right capacity that is “conditioned” on conservation commitments and recognition of actual consumptive use.

Similar to irrigation conservation, the appropriate factors and methodology for assigning appropriate conservation to potential new population and/or new water right needs is not well defined. However, if the 1,000,000 people in the Columbia Basin reduced annual per capita demand by 10%, about 19,300 AF of

water would become “available”, which could support new growth of about 110,000 people. Therefore, it does not appear that municipal conservation savings alone would support the projected growth forecast in the pending water right applications. Conservation from other sectors (e.g. agriculture), or storage, will likely be needed to meet projected domestic needs.

It is likely that individual conservation projects and water right applications will be matched so that, when appropriate, conservation savings can be used as a basis for processing new water rights. Furthermore, storage (large, small, or even aquifer storage options) and potentially the use of reclaimed water during the summer months may offer the greatest potential to offset new summer demands (as opposed to simply reducing them), thereby allowing for population growth without new demands on the Columbia River.



*Monthly Water Demand Based on Water Right Applications*

### **Second Tier Demand Forecast**

The second tier forecast looks at water demand based on historical water use in the Columbia System, focusing on municipal/domestic supply and irrigated agriculture. Washington State

University (WSU) was asked to assist Ecology with agricultural forecasting tools to begin to understand how much additional water demand will be driven by changes in the crops grown within the basin and the land area planted to each crop. The results of the WSU study show little or no change in expected crop acreage in the Columbia River Basin. However, the study could not forecast acreage for a few important crops such as wine grapes and alfalfa.

**Projections of future agricultural demand based on actual water use are uncertain and could be higher or lower than current water right applications**

- Crop acreage is expected to be stable.
- An upper bound increase of more than 750,000 acres is possible.

A projection of the USGS agricultural water use survey from the year 2000 to the year 2025 was attempted, using a simple single total growth rate to the year 2025. However, it was not possible to develop a sophisticated analysis of growth and validate potential growth in agricultural water use because of a diversity of possible future conditions. For example,

- The WSU study indicated that total crop acreage over the next 20 years will remain stable, though increases or decreases of up to 750,000 acres are possible.
- Water right applications suggest an increase by about 60,000 acres.
- The general “mood” of the WSU survey results was for a stable or declining agricultural demand.
- If the Columbia Basin project were completed to its full capacity, an additional 400,000 of irrigated lands could be brought into production.

Actual future increases in irrigation demands (if they occur) will represent a combination of additional irrigated acres, a transition to more water intensive crops, or a need for more water in response to higher temperatures and longer growing seasons because of climate change. However, it was not possible to develop a more sophisticated approach that includes factors related to conservation, agricultural economics, and climate and validate the estimated growth rate with the inventory data and time available for the initial forecast. With additional time for analysis, future forecasts can examine the more detailed relationships between agricultural water demand and these other factors.

The OFM moderate forecast for population growth indicates that, over the next 20 years, population at a County level will increase from less than 5% to over 30%. On average, 20-year population growth for all counties in the Columbia Basin is projected to be about 20%, or an additional 350,000 people. If only Counties that lie adjacent to the Management Zone are considered, the projected population increase is lower, on the order of 157,000 people. The water supply necessary to support this additional population is about 29,600 AF per year.

**Projections of future municipal demand based on population forecasts are lower than current water right applications**

- OFM Medium forecast: 350,000 people (all 21 counties)
- OFM Medium forecast: 157,000 people (Management Zone only)
- Equivalent population in water right applications: 450,000 people

### ***Comparison of First and Second Tier Demand Forecasts***

In general, it appears that the total demand for water expressed in the existing water right applications exceeds the total demand for water that is likely to occur based on simplistic projection methodologies.

- The demand forecast for irrigation water based on water right applications in the Management Zone (211,000 AF) is greater than the expected basin-wide irrigation demand based on the WSU projection (zero), but less than some of the project-based projections (e.g., 2<sup>nd</sup> phase of Columbia Basin project).
- The demand forecast for domestic water based on water right applications (86,849 AF) in the Management Zone is greater than the estimated range of domestic water demand both basin-wide (52,500 to 67,400 AF) and for Counties adjacent to the Columbia River (18,800 to 29,600 AF).
- The demand forecast for commercial industrial water based on water right applications (82,237 AF) in the Management Zone is greater than the estimated range of commercial water demand both basin-wide (42,000 AF) and for Counties adjacent to the Columbia River (28,400 AF).

In relation to the goals of the Columbia River Management Program, there are two relevant considerations:

1. First, although there is a discrepancy between water right applications and potential future demand, this does not mean that individual water right applications are not valid or that future total water use will not approach the quantities currently requested in applications.
2. Second, the estimated future water use for both water right applications and expected levels of use are reasonably close to the

conservation savings currently identified in the basin. This, coupled with the possibility of additional storage in the basin, suggests that actual future demands for water can be accommodated in large part through the conservation and storage parts of the Management Program's current strategy.

### **Next Steps**

The Columbia River Water Management Program represents an historic action by the Washington State legislature. Only 4 months into the implementation of the program, Ecology realizes that not all the answers to the water supply questions in Eastern Washington can be found in these pages. What can be found is the spirit of the legislation: collaboration, balance, energy, and optimism. The agency is dedicated to improving the information provided in future inventories and forecasts. In the short-term, there are a number of milestones that can be used to assess progress toward the availability of future water supplies.

#### **Short-term Milestones**

- Develop information systems
- Build project-specific partnerships
- Adopt funding criteria
- Create the Columbia River Technical Advisory Group
- Fund and complete needed studies
- Initiate pilot projects
- Press for timely solutions to the needs of the Odessa Subarea

There are also longer term milestones that Ecology has identified through the preparation of this report and external stakeholders have raised during the public comment period. These questions are important to answer in order to ensure the long-term success of the program.

### Long-term Milestones

- Refine and improve demand forecasting.
- Expand conservation inventory.
- Screen and rank conservation projects.
- Better understand existing constraints on river operations.
- Explore realm of storage opportunities (new vs. modification of existing, large vs. small, surface vs. aquifer).
- Measure and verify the quantity of water allocated to both instream and out-of-stream uses.

### New Information Systems

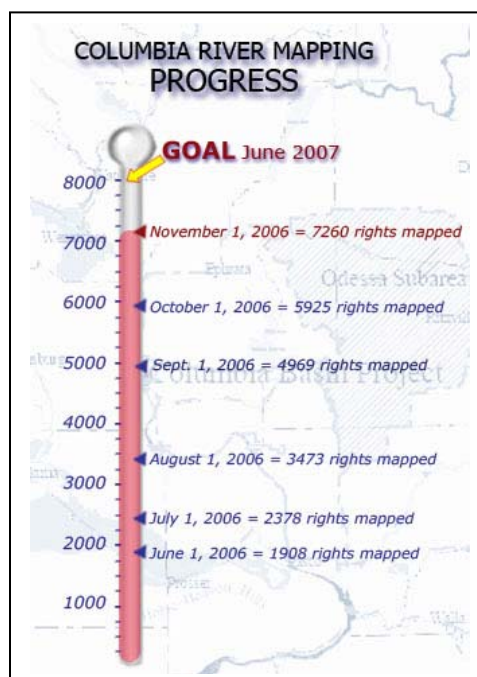
Ecology will “establish and maintain a Columbia River mainstem water resources information system that provides the information necessary for effective mainstem water resource planning and management” (RCW 90.90.050). This is a significant undertaking that will enable Ecology, water users, and water resource planners to better understand water use, future demands, and supply alternatives in the Columbia River. It will form the basis for future permitting decisions, water marketing, and regional planning and forecasting.

Ecology is already making significant strides to develop this system. GIS mapping of the water right attributes (e.g. point of diversion and place of use) for all water rights within the one-mile corridor is nearly complete.

Ecology will then focus on:

- GIS mapping of actual use through aerial photo delineation;
- Field verification of the aerial photo delineations;
- Water use metering to better understand actual demand;

- Creating electronic images of water right files;
- Incorporating existing stream gage and monitoring sites; and
- Tracking conservation and storage inventories, including funded projects relative to new permits.



Ecology’s existing well log internet database will serve as the model for the Columbia River water management information system user interface. The goal is to have a user-friendly, interactive system that can be published to the internet by 2009.



*Ecology's Online Well Log Database*



### ***Building Partnerships***

Management of the river is complex and changes to move toward addressing future instream and out-of-stream uses will require partners. Ecology will foster the necessary relationships to make this happen, engaging government entities top-to-bottom, federal to local. We are committed to work across jurisdictions, with sister states and Canada, and with partners in tribal governments. These partnerships will be critical to the future success of our efforts to develop a sustainable water resources management program for the Columbia River as it flows through Washington State.

### ***Adoption of Funding Criteria***

While new water supplies are pursued, the Legislature and stakeholders must have continued confidence that the \$200+ million dollars set aside for this purpose are being invested wisely. This month, Ecology issued the draft Programmatic EIS to seek public comment on how money in the program might be spent. The members of the PAG will have a voice in shaping funding criteria, as will county commissioners. Our expectation is that by early 2007, we will have in place a clear and transparent set of funding criteria that can be used to screen and rank an initial list of projects.

### ***Columbia River Technical Advisory Group (TAG)***

Ecology expects that evaluating projects will require technical expertise. Consistent with our efforts to involve the full range of interested parties and governments in shaping policy

issues, Ecology is convinced that projects will be more successful if the process by which they are evaluated is open and transparent. To achieve this goal Ecology will establish the TAG as the technical equivalent of the PAG. The TAG will help screen and rank projects identified in this and updated annual inventories for potential funding. It will also provide an open forum for the technical and environmental benefits of projects to be discussed and evaluated.

### ***Future Studies***

More work needs to be done to improve future legislative reports. Additional conservation projects can be identified by continuing to work closely with the Conservation Commission, local Conservation Districts, and Watershed Planning Units. Partnering with state institutions will help refine our understanding of future demands and impacts of global warming. Studies of geology within the one-mile corridor will help us understand how big a role aquifer recharge might play in the program. Continued support of storage feasibility studies will refine the storage alternatives down to one or more final sites for consideration.

### ***Projects***

The need for future studies is great, but Ecology also recognizes the urgent need to make progress toward improving river flows and issuing new water rights. To that end, we will look for projects in 2007 and 2008 that meet the balanced goals of the bill. Nothing is off the table at this point in time as proposals for pump exchanges, aquifer recharge, water acquisition partnerships, and more, are emerging. Ecology is dedicated to

“aggressively pursuing” opportunities that have the best chance to deliver water supplies that

address both instream and out-of-stream needs at the least cost to the public.



## CHAPTER 1: BACKGROUND AND OBJECTIVES

### 1.1 History

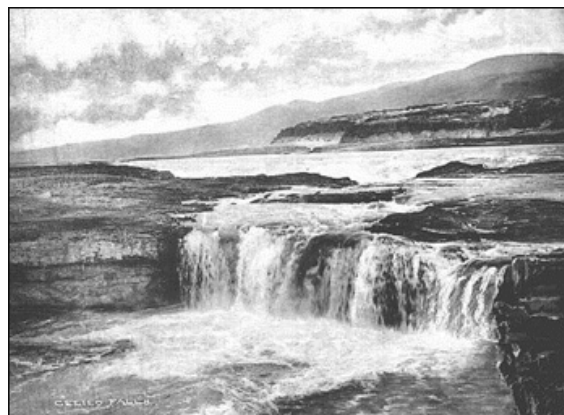
The Columbia River and its basin have long comprised one of the greatest natural resources of the United States. As the largest river in the Pacific Northwest, the Columbia and its tributaries affect our region in many ways—by fostering world-famous Pacific salmon runs, supplying water for irrigation and recreation and providing clean, natural fuel for more than half of the region’s electrical generation.

The region’s best-known and most celebrated exploration is the 1804-1806 expedition of Lewis and Clark where they explored and chronicled the American West. After traveling up the Missouri River and crossing over the Rocky Mountains, Lewis and Clark and their Corps of Discovery floated down the Columbia River to the Pacific Ocean. Their journals are filled with vivid descriptions of the river’s diverse ecology ranging from temperate rain forests to semi-arid plateaus, and its astounding abundance of timber, fish and game.

It is interesting to note that even long before that historic trip, the vast resources of the Columbia River Basin were the key to the Pacific Northwest’s economy. Our region’s population and economy, which were transformed following the visit by Messrs. Lewis and Clark, are growing at an accelerating pace today. As a result, there are ever-increasing social, political, and economic pressures placed on the resources of the Columbia River. This growth also increases tensions among the various interests that use the river’s vast resources.

#### 1.1.1 The Columbia Basin

The Columbia River Basin (Figure 1-1) is a single hydrologic unit extending over seven U.S. states (Oregon, Washington, Idaho, Montana, Nevada, Wyoming, and Utah), many Indian reservations, and one Canadian province. It flows for more than 1,200 miles, draining a 219,000-square-mile basin. Precipitation levels within the basin vary widely, ranging from 6 to 110 inches per year (Lang, 2006).



*The Columbia River plunged over basalt outcroppings like Celilo Falls in the Gorge before dam building activities in the 20<sup>th</sup> century.*

#### 1.1.2 Uses of the Columbia

There are nine primary uses of the Columbia River system:

- Flood Control
- Fish Migration
- Fish and Wildlife Habitat
- Electric Power Generation
- Navigation
- Irrigation

- Recreation
- Water Supply and Quality
- Cultural Resources

### **Flood Control**

Controlling the damaging floodwaters was one of the original purposes for many of the dams on the river and flood control remains a high priority for system operation during high runoff years. For example, thirty-two people died in the Portland area during the 20-day flood of 1948 when the Columbia River broke through the dike surrounding the town of Vanport (FCRPS, 2001).



*Construction of Grand Coulee Dam, often dubbed "the eighth wonder of the world," provided a tremendous boost to the regional economy during the Depression years (Boswell and McConaghy, 1996).*

### **Fish Migration**

The Columbia River remains famous for its salmon runs, but salmon populations on the river have declined. Several species of salmon are now listed as endangered under the federal Endangered Species Act (ESA) (Table 1-1). By law, efforts must be made to protect these species from further degradation and to start the process of recovery. Federal dams in the lower Columbia

and Snake Rivers have fish ladders to help anadromous fish migrate upstream, and bypass systems have been installed to help juvenile smolts in their downstream migration. The goal of the Washington State Department of Ecology (Ecology) and other stakeholders in the Columbia River Basin is to protect the salmon and the Columbia River's natural resources while continuing to wisely use the Columbia River's water for the benefit of the region.

### **Fish and Wildlife Habitat**

The Columbia Basin boasts a plethora of wildlife and resident and migrating fish. The region has spent hundreds of millions of dollars restoring and protecting habitat. The investments include programs to reestablish wetlands, control streambank erosion, purchase sensitive wildlife tracts, and acquire harvest rights for old growth timber to protect habitat.

### **Electric Power Generation**

The Columbia River Basin is the most hydroelectrically developed river system in the world. More than 400 dams, 11 run-of-the-river dams on the mainstem and hundreds of major and modest structures on tributaries generate more than 21 million kilowatts of hydroelectric energy for the region.

Rock Island Dam, in the middle reach of the river, was the first major hydropower producer on the Columbia. Completed in 1932, Rock Island Dam is small compared to the behemoths—Bonneville and Grand Coulee—that the federal government completed in 1938

and 1941, respectively. The last dams were built on the Columbia in the 1960s and 1970s. In 1973, Canada completed the last of the mainstem dams, Mica Dam on the upper river. The dams create large reservoirs that provide flood control and water for large irrigation systems on the Columbia Plateau.

### **Navigation**

The Columbia and Snake Rivers can be navigated as far upstream as Richland, Washington and Lewiston, Idaho. Four federal dams on the mainstem of the Columbia—Bonneville, The Dalles, John Day, and McNary—have navigation locks that allow passage of boats and barges.

### **Irrigation**

Today, much of the basin's agricultural production depends heavily on irrigation, and water diverted for agriculture is the largest offstream water use in the Columbia system. Nearly all the potatoes, sugar beets, hops, fruit, vegetables, and mint produced in the region are from irrigated land, as is a large portion of hay and grain production (National Research Council, 2004).

The Columbia Basin Project (CBP) is the region's largest irrigation project. Authorized by Congress in 1935, the federal project was developed in parallel with the construction of Grand Coulee Dam. Initial designs of the CBP called for the delivery of irrigation water to 1.1 million acres of land. Today, about 621,000 acres are irrigated (National Research Council, 2004).

### **Recreation**

The rivers and lakes in the Columbia Basin attract boaters, sport anglers, swimmers, hunters, hikers, and campers throughout the year. Thousands of sightseers visit the river and the irrigation projects. The strong winds in the Columbia River Gorge have made the area a world-class destination for windsurfers.

### **Water Supply and Quality**

The Columbia River and its tributaries supply water to numerous municipalities and industries. While this use does not consume a significant portion of the river's water, such withdrawals are a factor that is considered by the river system operators in managing the river. Of particular importance to these users is maintaining the high quality of the Columbia River water so that it continues to provide an attractive source of supply for municipal and industrial purposes.

### **Cultural Resources**

The history of human beings in the Columbia River Basin spans thousands of years. Indian cultures may have existed in the basin perhaps 10,000 years ago, and European and American influences began in the late 1600s and early 1700s. The Columbia River plays a pivotal role in the cultures of many Pacific Northwest tribes, including the Yakama Nation, the Confederated Tribes of the Colville Reservation, the Spokane Tribe of Indians, the Nez Perce Tribe, the Confederated Tribes of the Umatilla Indian Reservation, the Confederated Tribes of Warm Springs, and the Kalispel Tribe of Indians.

### **1.1.3 John Day/McNary Reserve**

The reservation of water for irrigation, subject to specific conditions, is in the interest of the State of Washington. On August 8, 1978, the John Day/McNary Reserve (WAC 173-531) was created to set aside 1,320,000 acre-feet per year to provide a water supply for the 330,000 acres of irrigation projected to be developed in the Columbia Basin by the year 2020. Originally, the reserve was intended to forestall the diversion of the Columbia River to address water needs in California. It was also designed as a means to deliver water to lands under existing water right permits, pending applications, and land for which appropriation applications may not yet have been filed. In the last 22 years, about 85 permits have been issued from the John Day/McNary Reserve for 76,000 acre-feet a year—roughly 6 percent of the total set aside (Lee, 2006). Scientific and public policy conflicts regarding the effects of additional water use on the health of the Columbia River's ecosystems have sharply limited the number of new permits issued from the reserve.

### **1.1.4 Increasing Attention to Instream Flow**

In June 1980, Washington adopted an administrative rule for protecting instream flows on the mainstem Columbia River (WAC 173-563). The rule required that water rights on the Columbia River mainstem issued after 1980 be subject to the state instream flow rule. These water rights (interruptible rights) could be curtailed in low flow conditions in order to maintain adequate flows for fish. Interruptible rights can be curtailed when the March 1 forecast for April through September runoff at The Dalles

Dam on the lower Columbia River is less than 60 million acre-feet.

In the 1990s, the federal listing of Columbia River salmon species as threatened or endangered under the ESA intensified the debate over whether additional withdrawals of water could be allowed from the river without adversely affecting salmon runs.

After the 1991 listing of Snake River sockeye salmon, the state established a moratorium on issuing new water rights from the Columbia and Snake Rivers in response to a petition filed by environmental groups. Legislative direction lifted the moratorium in 1997 and the administrative rules for protecting instream flows on the Columbia River were revised in 1998. The revised rule, known as the consultation rule, stipulated that all water right applications would be evaluated on a case-by-case basis for possible impacts to fish through consultation with appropriate local, state, and federal agencies and tribal governments.

The consultation rule increased the time needed to process water right applications along the Columbia River, but did nothing to resolve the underlying scientific disputes regarding flow.

Over time the backlog of applications increased to hundreds, many of which have been pending for over a decade. Some communities along the river lacked adequate or reliable water rights to meet the needs of a growing population and economic development. Ecology did not issue any new water rights from the Columbia River between 1991 and 2003.

### **1.1.4.1 Litigation**

In 2000, the Columbia-Snake River Irrigators Association (CSRIA) and the City of Pasco filed a lawsuit to obtain a court order requiring Ecology to process water rights that were pending prior to the 1991 moratorium. Ecology, the City of Pasco, and the irrigators reached an agreement on the case and Ecology issued six new Columbia River water rights. The settlement provided applicants with two options in how their water right applications can be processed by Ecology (American Bar Association, 2003). The first option is for an applicant to pay \$10 per acre-foot per year for the water used to receive a water right permit not subject to flow conditions (uninterruptible water right). The money would be used to replace water in a drought situation or to purchase perpetual mitigation for adverse impacts to salmon. Under the second option, the applicant could receive a water right subject to flow conditions (interruptible water right).

### **1.1.5 *Columbia River Initiative***

Former Governor Gary Locke created the Columbia River Initiative (CRI) to address the water management issues in the Columbia River. The CRI included a framework for issuing new water rights from the Columbia River while improving streamflows for fish. The CRI was composed of four elements—a legislative proposal for consideration in the 2005 legislative session, a proposed budget to secure water and conduct feasibility studies of new off-channel storage projects, draft rule language for implementation of the CRI, and cooperative agreements with federal and local partners.

### **1.1.5.1 Draft Rulemaking**

The proposed CRI rule included:

- Procedures for drought permits for existing water rights currently subject to interruption during low streamflows;
- Setting the cost to be paid annually by new water right holders to obtain water from the state; and
- Defining responsibilities for acquiring, accounting for, and approving the allocation of water from the Columbia River mainstem.

As part of the CRI, Ecology undertook several actions to develop a water management plan. These included developing cooperative agreements with the Bureau of Reclamation and the Colville Tribe and technical and economic studies of the proposed rule.

### **1.1.5.2 EIS**

In December 2004, Ecology and the Washington Department of Fish and Wildlife (WDFW) prepared a programmatic Draft EIS on a water management plan for the Columbia River developed under the CRI (Ecology and WDFW, 2004). The Draft EIS evaluated potential impacts of the proposed rule. Governor Gregoire halted the CRI process because of legislative opposition to the proposal and created the Columbia River Partnership. No Final EIS was issued on the proposed CRI rule.

## **1.2 *Columbia River Water Management Program***

Ecology is currently in the process of developing a Columbia River Water Management Program (Management Program)

to facilitate implementation of the legislation, including administration of the Columbia River Basin Water Supply Development Account. Part of the program development process is a State Environmental Policy Act (SEPA) Environmental Impact Statement (EIS). The following sections were taken directly from the Draft EIS (DEIS) (Ecology, 2006b) with slight modifications. Sections taken from the DEIS are cited at the end of each paragraph to distinguish them from original text.

### **1.2.1 Engrossed Second Substitute House Bill (ESSHB) 2860**

The 2006 Legislature passed Engrossed Second Substitute House Bill 2860 (ESSHB 2860), an act related to water management in the Columbia River Basin. The Legislature recognized that a key priority of water resource management in the Columbia River Basin is the development of new water supplies that include storage and conservation in order to meet the economic and community development needs of people and the instream flow needs of fish (Ecology, 2006b).

ESSHB 2860 establishes the need for a Columbia River Basin water supply development program, directs Ecology to aggressively pursue development of water supplies to benefit both instream and out-of-stream uses and creates a Columbia River Basin Water Supply Development Account (Ecology, 2006b).

Funding for the Columbia River Basin Water Supply Development Account can come from legislative appropriations, funds earned through implementation of the Management Program components, and other sources. Funds in the account can be used to assess, plan and develop

new storage facilities, conservation projects, or other actions to provide new water supplies in the Columbia Basin (Ecology, 2006b).

Water gained from the funded projects is to be used for both instream and out-of-stream uses. Two-thirds of the funds provided by the Legislature in the account must be used to support the development of new storage facilities with the remaining one-third used for the other purposes of the legislation (Ecology, 2006b).

Ecology's initial implementation of the program has resulted in funding of a number of projects specifically identified by the legislature, including:

- Ecology has allocated \$400,000 to the Confederated Tribes of the Umatilla Indian Reservation to engage in a four-year study to determine the feasibility of restoring streamflows to the Walla Walla River while maintaining a healthy agricultural economy. The study, co-sponsored by the U.S. Army Corps of Engineers (Corps), will consider two storage options, purchasing water rights, increasing irrigation efficiencies, and shallow aquifer recharge.
- Ecology has allocated approximately \$1.3 million dollars to the Bureau of Reclamation to evaluate the feasibility of improving water supplies in the Yakima River through storage and/or pump exchanges.
- Ecology has allocated approximately \$2.5 million dollars in state cost share to the Bureau of Reclamation and the Washington State Department of Fish and Wildlife to evaluate the feasibility of an alternate feed route to Potholes Reservoir.



- Ecology has allocated approximately \$4 million dollars in state cost share with the Bureau of Reclamation for evaluating alternatives for supply surface water to the Odessa Subarea.
- Ecology has allocated approximately \$3.9 million dollars in state cost share with the Bureau of Reclamation for evaluating off-site storage opportunities for the mainstem Columbia River.
- Ecology has allocated approximately \$1.3 million dollars to the Colville Tribes and Washington State Department of Fish and Wildlife to evaluate the feasibility of modifying existing storage through additional drawdown of Lake Roosevelt.

### **1.2.2 Columbia River Water Management Program Components**

The major components of the Management Program are storage facilities, conservation projects, VRAs to provide new water for out-of-stream use, a Columbia River water supply inventory and water supply and demand forecast and a Columbia River water resources information system (Ecology, 2006b).

#### **1.2.2.1 Storage**

As directed by the legislation, the Management Program will focus its efforts to develop water supplies for the Columbia River Basin in the following areas:

- Alternatives to ground water for agricultural users in the Odessa Subarea aquifer;
- Sources of water supply for pending water right applications;
- A new, uninterruptible supply of water for the holders of interruptible water rights on the Columbia River mainstem that are subject

to instream flows or other mitigation conditions to protect streamflows; and

- New municipal, domestic, industrial and irrigation water needs within the Columbia River Basin (Ecology, 2006b).

A variety of types of storage projects may be funded or approved under the legislation. The Management Program EIS groups the potential storage projects into four categories:

- New large storage facilities (> 1 million acre-feet)
- New small storage facilities (< 1 million acre-feet)
- Modification of existing storage facilities
- Aquifer storage and recovery (ASR) (Ecology, 2006b).

Ecology and the Bureau of Reclamation are cooperating on a study evaluating the feasibility of storage sites in the Columbia River Basin.

#### **1.2.2.2 Conservation**

Funds from the Columbia River Basin Water Supply Development Account may be used to implement water conservation projects. Net water savings through conservation measures funded by the Management Program will be placed in Ecology's Trust Water Rights Program (Trust Program) in proportion to the state funding provided to the project. In turn, Ecology would allocate water from the Trust Program for irrigation or other beneficial uses (Ecology, 2006b).

Net water savings achieved through conservation projects within the boundaries of the Columbia Basin Project (CBP) and used to offset ground water use in the Odessa Subarea

are exempt from the trust requirement (Ecology, 2006b).

### **1.2.2.3 Voluntary Regional Agreements (VRAs)**

The legislation provides for groups or organizations to enter into VRAs with Ecology to exchange a package of conservation projects for new water rights or water right transfers. VRAs could be proposed anywhere within the Washington portion of the Columbia Basin upstream of Bonneville Dam. VRAs must meet minimum requirements to be approved (Ecology, 2006b).

### **1.2.3 Early Activities and Alternatives under SEPA Review**

The legislation also includes these early actions:

- Lake Roosevelt Drawdown
- Alternative Feed Routes
- Columbia/Snake River Irrigators Associate (CSRIA) Voluntary Regional Agreement

This report does not evaluate these projects specifically; however a brief description is provided below.

#### **1.2.3.1 Lake Roosevelt Drawdown**

As part of the Memorandum of Understanding between the State of Washington, the Bureau of Reclamation, and the major Columbia River Irrigation Districts, the Bureau of Reclamation will file two water right applications with Ecology to divert a total of 132,500 acre-feet from Lake Roosevelt. The water is proposed to be diverted from the Bureau of Reclamation's existing 6.4 million acre-foot storage right for water behind Grand Coulee Dam. The Bureau of

Reclamation's applications are predicated on agreement being reached with the Confederated Tribes of the Colville Reservation regarding the diversion (Ecology, 2006b).

The first water right application would be to divert 82,500 acre-feet from Lake Roosevelt during non-drought years. The non-drought diversion would result in an approximately one-foot additional drawdown of the reservoir. The second water right application would be to divert 50,000 acre-feet, in addition to the aforementioned 82,500 acre-feet, from Lake Roosevelt during drought years. The drought year diversion would add approximately 0.5 feet to the one-foot drawdown during non-drought years (Ecology, 2006b).

#### **1.2.3.2 Alternative Feed Routes**

The Bureau of Reclamation, in cooperation with the State of Washington, is studying three possible alternative feed routes to convey water from Banks Lake to Potholes Reservoir to supply the South Columbia Basin Irrigation District (Reclamation, 2006c; Ecology, 2006b). This project would create a secondary feed route to the Potholes Reservoir from Pinto Dam to help ensure reliability of water supply to the reservoir.

The Crab Creek Route Alternative would discharge flows through Pinto Dam, Brook Lake, and use the natural channel of Crab Creek to deliver water to Moses Lake and Potholes Reservoir. The proposed W-20 Route Alternative would increase diversions from Pinto Dam to the Main Canal, route those flows to the West Canal and into the W-20 Canal and

from the W-20 Canal to Moses Lake through a new conveyance system that would be constructed. The Frenchman Hills Alternative would route water from Pinto Dam through the Main Canal and West Canal to the Frenchman Hills Wasteway and would require no new construction (Ecology, 2006b).

### **1.2.3.3 CSRIA Voluntary Regional Agreement**

The CSRIA represents farming operations in Eastern Washington that irrigate about 250,000 acres of row crop, vineyard, and orchard lands. Their members have farming operations along the Columbia-Snake River system north from the City of Brewster, reaching to the south along the John Day and McNary Pools of the Columbia River. Some of the members own farming operations in the Yakima Valley and within the CBP area. The membership also includes several municipal service irrigators, including Brewster, Kennewick, West Richland, and the Kennewick Irrigation and Hospital Districts (Ecology, 2006b).

The CSRIA proposes to undertake conservation and other measures to create new conserved water that can be used for new uninterruptible water rights on the Columbia River and lower Snake River (at or below Ice Harbor Pool). The conserved water would be transferred to Ecology's Trust Program. The VRA does not specify where the projects would be located. The VRA includes provisions for payments to reimburse Ecology for conservation projects funded in advance by the state. The conservation projects could be undertaken by municipal as well as agricultural users (Ecology, 2006b).

### ***1.2.4 Twelve-Month Implementation Work Plan for the Management Program***

After passage of ESSHB 2860, a team of Ecology staff established a 12-Month Work Plan for implementation of the Management Program. The 12-Month Work Plan is designed to identify near and longer term tasks and objectives to guide implementation and to lay the foundation for a successful long-term program. The plan focuses on specific, near-term, critical path activities with a 12-month period that meet the reporting requirements of the legislation. The plan includes hiring of Ecology staff, preparing the programmatic EIS, establishing a Columbia River Policy Advisory Group, coordinating with the Bureau of Reclamation on the early activities, developing the water supply and demand forecasting water use data components, developing a Columbia River Water Supply inventory, developing the VRA framework, developing a tribal consultation framework, developing a financial and economic analysis capacity, and negotiating Hanford Reach studies (Ecology, 2006b).

### ***1.2.5 Goals for this First Legislative Report***

This first legislative report comes just four months after the effective date of the legislation. The Columbia River Water Management Program is ambitious, and Ecology intends its legislative reporting to be comprehensive in nature to make sure its efforts to develop and administer the program are consistent with legislative intent. This report:

- Lays the foundation for understanding how the Columbia River is managed and what factors affect the supply of water in the basin;
- Documents existing demand for water in the Columbia and forecasts how demand will increase in the future; and
- Develops an initial inventory of conservation and storage projects that can be used to meet future demand.

### **1.2.6 Goals for Future Legislative Reports**

As Ecology develops the program, subsequent legislative reports will include greater detail and greater accuracy. The program itself has a “water budget” focus, with conservation and storage providing the supply of water to meet new demands. The legislative reports will showcase how successful Ecology is in meeting the balanced goals of the bill, including both out-of-stream and instream demands. Finally, the long-range forecasting will enable Ecology and other state and federal agencies to consider in advance the policy, funding, and management requirements necessary for sustaining the Columbia River Basin.

### **1.3 Report Objectives and Organization**

This report is intended to serve as a general overview of the supply and demands within the Columbia River Basin in the State of Washington from the Canadian border to Bonneville Dam. It presents a first look at what water is being used now and what water is needed in the future to satisfy the demand for Columbia River water. This report is an effort to compile and compare existing data, identify gaps and identify areas that

need further research or greater coordination between stakeholders.

This report is organized into four chapters. A description of what is in each chapter is provided below.

Chapter 2 describes stakeholder outreach efforts in the production of this report. The Columbia River Water Management Program must be transparent if it is to be successful. The annual legislative report is a logical place to document the status of the program, successes of the previous year, and goals for the future. This Chapter describes Ecology’s early efforts to build partnerships on program implementation and provide opportunities for stakeholders and the public to be involved in the development of the report.

Chapter 3 contains a baseline discussion of the Columbia River system, organized into three basic components: 1) A physical description of the Columbia River system; 2) A basic description of various institutional factors that affect the quantity of water in the Columbia River; and 3) A description of existing monitoring and forecasting that occurs to monitor and predict the amount of water in the Columbia River. The amount of existing information on these components is substantial. While not exhaustive in scope, this Chapter includes a compilation of selected data that relate to these components. The data are presented primarily as tables, but several maps and graphics of key information are provided.

Chapter 4 contains the inventory of new and existing information related to water

conservation, water storage, water rights, and water use, as described in Section 5 and Section 6 in the Legislation. A summary of potential agricultural water conservation projects is provided, based on data compiled from conservation and irrigation districts. A summary of water storage projects is provided, based on data compiled from WRIA watershed plans and recent Bureau of Reclamation appraisal studies. A summary of existing water rights within the Management Zone is provided, based on queries of Washington's Water Rights Tracking System (WRTS) water right database and Oregon Water Resources Department's (OWRD) water right database. Finally, a summary of current estimated water use is provided, based on data compiled from U.S. Geological Survey (USGS) surveys, Water Resource Inventory Area (WRIA) watershed plans, Office of Financial Management (OFM) population estimates, Washington Department of Health's (DOH) water system database, and water system plans for major municipalities along the Columbia River. The data in this Chapter are also presented primarily as tables, but several maps and graphics of key information are provided.

Chapter 5 contains an initial forecast of future water demand and compares the forecast demand

with information described in Chapters 3 and 4. The forecast is described in two tiers. The first tier demand forecast is based on water right applications in the WRTS database as of August 2006. The applications are aggregated by County (in total and by purpose of use), and compared with potential conservation and storage projects. The second tier demand forecast is based on simplistic projections of current water use, as reported in Chapter 4. The projected water use is aggregated by County and compared with the first tier demand forecast. The forecast methodology used in Chapter 5 is very simplified and presented in aggregate. There are a number of assumptions and limitations embedded in the quantities of water and comparisons presented in this Chapter. However, this is, to our knowledge, the first time that these types of data have been assembled and compared at a scale that encompasses all of the various elements of the Columbia River system. Because constraints on the scope and timeline for this initial legislative report prevented a more robust forecasting method to be developed, Chapter 5 concludes with a discussion of how to improve the supply/demand inventory and forecasting methodology in future updates to the Legislature.

**TABLE**



**Table 1-1. Federally Listed Fish Species under the ESA in the Columbia River Basin**

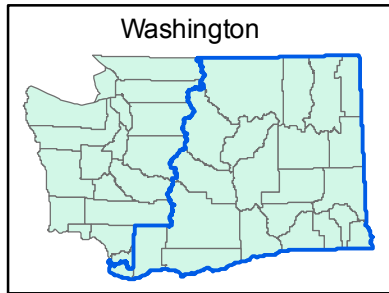
Region (ESU / DPS)	Species	Listing Status
Upper Columbia River	spring Chinook salmon ( <i>Oncorhynchus tshawytscha</i> )	Endangered
	steelhead trout ( <i>O. mykiss</i> )	Threatened
Mid-Columbia River	steelhead trout ( <i>O. mykiss</i> )	Threatened
Snake River	sockeye salmon ( <i>O. nerka</i> )	Endangered
	fall Chinook salmon ( <i>O. tshawytscha</i> )	Threatened
	Spring/summer Chinook salmon ( <i>O. tshawytscha</i> )	Threatened
	steelhead trout ( <i>O. mykiss</i> )	Threatened
Lower Columbia River	Chinook salmon ( <i>O. tshawytscha</i> )	Threatened
	Coho salmon ( <i>O. kisutch</i> )	Threatened
	steelhead trout ( <i>O. mykiss</i> )	Threatened
Columbia River Basin	chum salmon ( <i>O. keta</i> )	Threatened
	bull trout ( <i>Salvelinus confluentus</i> )	Threatened
	eulachon ( <i>Thaleichthys pacificus</i> )	Candidate
	Pacific lamprey ( <i>Lampetra tridentatus</i> )	Species of Concern
	river lamprey ( <i>L. ayresi</i> )	Species of Concern
	western brook lamprey ( <i>L. richardsoni</i> )	Species of Concern
	coastal cutthroat trout ( <i>O. clarki clarki</i> )	Species of Concern
	westslope cutthroat trout ( <i>O. clarki lewisi</i> )	Species of Concern
	Redband trout, an interior race of rainbow trout ( <i>O. mykiss</i> )	Species of Concern
	pygmy whitefish ( <i>Prosopium coulteri</i> )	Species of Concern
	marginated sculpin ( <i>Cottus marginatus</i> )	Species of Concern
	Great Columbia River spire snail (Columbia Pebblesnail; <i>Fluminicola Columbiana</i> )	Species of Concern
	California floater ( <i>Anodonta californiensis</i> )	Species of Concern

**NOTES**

Abbreviations: DPS: distinct population segment; ESU: evolutionarily significant unit

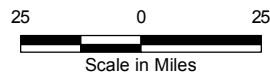
Source: Washington State Department of Ecology (Ecology). 2006. Draft Programmatic EIS for the Columbia River Water Management Program. Ecology Publication # 06-11-030. October 5, 2006.

**FIGURE**



**LEGEND**

- Highway
- River
- County Boundary
- WRIA Boundary



Map Projection:  
UTM Zone 11, NAD 83

Source: WSDOE, USGS



This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE **1-1**  
**COLUMBIA RIVER BASIN**  
WSDOE/COLUMBIA BASIN WATER SPPLY/WA

## CHAPTER 2: STAKEHOLDER OUTREACH

### 2.1 Introduction

It is an understatement to say that there are a large number of agencies, governments, and organizations with a stake in the future of the Columbia Basin. For example, within the bounds of Washington State alone, there are state and federal agencies, local governments, tribal governments, irrigation districts, conservation districts, watershed planning units, public utility districts, special organizations, businesses, and residents (Figure 2-1). The Columbia River also flows through state and national boundaries. Canada and six other U.S. states have an interest in the river as an economic and environmental resource. Successful policy development in this context requires an aggressive outreach strategy as the Columbia River Basin Water Management Program (Management Program) is developed and implemented.

### 2.2 Comprehensive Communication Strategy

In recognition of the need to seek input from a large and vested audience, Ecology is developing a comprehensive communication strategy designed to allow stakeholders multiple points of entry into decision making processes associated with the Management Program. Following the passage of the legislation in February 2006, Ecology has met “early and often” with governmental entities and key stakeholders in an effort to ensure that its initial implementation efforts were transparent and

consistent with the intent of the Legislature. Communication was an important part of Ecology’s goal for the Management Program even before the legislation became effective on July 1, 2006. By then, Ecology had developed a 12-Month Work Plan<sup>1</sup> which included outreach efforts to local and state governments, tribes, and other partners. Much of these early outreach efforts included discussion concerning the water supply inventory because it is expected that this inventory will yield the conservation projects that will enable new water right permits to be issued, while storage pursues a vital, but slower feasibility path.

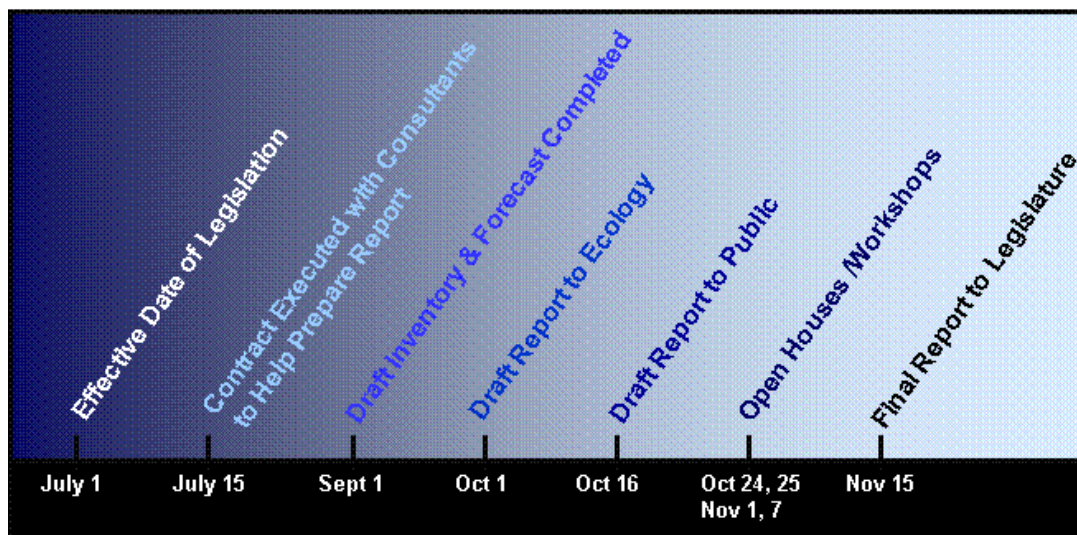
Since the Columbia River Management Act provided Ecology only about four months to prepare the first legislative reports addressing project inventories and supply and demand forecasts, Ecology made a decision to contract portions of this work out to organizations rich with experience in matters of irrigated agriculture, municipal and industrial water supply and use, instream flow needs, and conservation. Specifically, Ecology relied upon the expertise provided by Golder Associates, Anchor Environmental, the Washington State Conservation Commission, and Washington State University. To make sure the project was completed within the timelines established by the legislature, Ecology developed a schedule for implementation of the legislative report.

---

<sup>1</sup>

[http://www.ecy.wa.gov/programs/wr/cwp/images/pdf/cr12mo\\_plan.pdf](http://www.ecy.wa.gov/programs/wr/cwp/images/pdf/cr12mo_plan.pdf).





*Long-Term Supply and Demand Forecasting Report Completion Timeline*

This report represents Washington's first effort to evaluate opportunities to develop water supplies for the Columbia River. It is also our initial foray into the business of forecast demand for water from the river. While much has been learned and accomplished since the passage of the bill, much remains to be done. It is anticipated that in 2007, Ecology will be able to better showcase initial Management Program successes and better communicate program objectives with the public. The factors associated with the anticipated improvement in performance in 2007 include:

- Hiring for the Program will be complete and staff trained to meet legislative objectives.
- The Programmatic EIS will be complete in February 2007, which will clarify the policy framework under which Ecology will implement the Management Program.
- Ecology will be implementing its communication strategy including a regiment of meetings with key stakeholders, an overhaul of its website to provide a portal

into daily Columbia River activities, opportunities for the general public to be heard through open houses and workshops and development of multi-media outreach materials.

The following sections describe Ecology's public outreach efforts to-date and efforts it will make in the next year.

### **2.3 Policy Advisory Group**

A key piece of Ecology's implementation strategy was to provide Columbia River stakeholders with a regular, structured point-of-entry into a conversation with agency staff during the initial startup. With this goal in mind the Columbia River Policy Advisory Group (PAG) was established and began a series of monthly meetings in August.

PAG members represent a combination of diverse Columbia River stakeholders. Ecology will rely upon PAG members to identify policies that must be addressed as the Management

Program is implemented. The diversity of perspectives from the PAG is intended to provide Ecology with a range of perspectives on policy choices and priorities and assist Ecology in setting criteria for funding of storage and conservation projects. While membership in the PAG may change over time, currently the list consists of the following individuals, organizations and governments.

- John Stuhlmiller, Washington State Farm Bureau
- Merrill Ott, Stevens County Commissioner
- Phil Rigdon, Yakama Nation
- Rob Masonis, American Rivers
- Gary Chandler, Association of Washington Business
- Jim Fredricks, U.S. Army Corps of Engineers
- Kathleen Collins, Water Policy Alliance
- Jon Culp, Washington State Conservation Commission
- Cindy Custer, Bonneville Power Administration
- Dick Erickson, East Columbia Basin Irrigation District
- Rick George, Umatilla Tribes
- Bill Gray, Bureau of Reclamation
- Bob Hammond, City of Kennewick
- Tony Grover, Northwest Power and Conservation Council
- Joe Lukas, Grant County PUD
- Mo McBroom, Washington Environmental Council
- Darryll Olsen, Columbia-Snake Rivers Irrigation Association
- Gary Passmore, Colville Tribes

- Lisa Pelly, Washington Rivers Conservancy
- Rudy Peone, Spokane Tribe
- Mike Schwisow, Columbia Basin Development League
- Teresa Scott, Washington Department of Fish and Wildlife
- Paul Wagner, NOAA Fisheries – U.S. Department of Commerce
- Rich Stevens, Grant County Commissioner
- Max Benitz, Benton County Commissioner

As of the date of this publication, the PAG has met monthly since August 2006 to discuss a range of implementation issues, including this report. Meeting information, agendas, meeting notes, and the PAG charter are available on Ecology's website. PAG meetings are published in advance on Ecology's website and are open to the public. During each meeting, an opportunity is given for the general public to share thoughts with the group and Ecology. The PAG is an important, but not exclusive piece of Ecology's overall outreach strategy. Ecology intends to utilize multiple opportunities for the public to be involved in shaping the Management Program.

## 2.4 Local Government

Local government has an important role in helping Ecology implement the Management Program. In May of 2006, Ecology began the process of working with the Washington State Association of Counties to establish a Columbia River County commissioners forum to gather vital input regarding matters related to Management Program implementation. Ecology sought development of an ongoing relationship with County commissioners within the



Columbia Basin out of respect for their role in watershed plan approval and implementation, salmon recovery plan approval and implementation, and local land and water use administration. Ecology administration has committed to attending monthly meetings with county commissioners to provide status updates on program implementation and to provide an opportunity for input and dialogue on Management Program implementation. Ecology has also discussed numerous specific conservation and storage projects with members of local government entities who have a vested interest in how the Management Program will affect their constituency.

Much of this report is about leveraging existing sources of data to develop a robust water budget for the Columbia and Snake River Basins. Local government has already collected much of the information necessary to support a successful water supply inventory and demand forecasting effort, including:

- Knowledge of specific conservation opportunities by County Commissioners, conservation districts and irrigation districts
- Land use and parcel information
- Information on projected demand needs

### **2.4.1 Watershed Planning**

The Legislature has made a significant investment both in watershed planning and in the Columbia River Water Management Program. Ecology has been directed to harmonize these efforts as a part of implementing the legislation. To that end, Ecology:

- Has engaged the initiating governments for watershed planning through the PAG and through monthly County Commissioner meetings.
- Has used adopted watershed plans as a key source of information for this report.
- Has developed and implemented a training program for its watershed leads to carry out the Columbia River message to the planning units.
- Will continue to consult with watershed planning units in the future as other elements of the legislation (e.g., harmonization with proposed Voluntary Regional Agreements) are implemented.

## **2.5 State Government**

While Ecology is charged with implementation of the Management Program under Chapter 90.90 RCW, implementation will have a large footprint on all of state government. For this report, Ecology has engaged in communication with a variety of state agencies that could best assist in contributing to the water supply inventory and the forecast of future Columbia River demand. In gathering such information:

- Ecology worked with the Washington State Conservation Commission to implement a contract for local conservation districts to supply information on conservation and storage opportunities in the Columbia River Basin.
- Ecology met frequently with the Washington Department of Fish and Wildlife to coordinate report goals and report on the status of the Columbia River water supply.
- Ecology partnered with the Washington Department of Health whose information on water system planning was useful in understanding municipal conservation

opportunities and projected water system demands.

Ecology is currently in the process of conducting informational meetings with other key state agencies to build program cross-walks where the Columbia River goals overlap other state missions. Additional state partnerships with the Department of Natural Resources; Department of Agriculture; and the Department of Community, Trade and Economic Development are under development to ensure the success of the Management Program.

## 2.6 Federal Government

Ecology recognizes the key role that the federal government plays in the management of the Columbia River and demands on the river for both instream and out-of-stream uses, including the following agencies:

- U.S. Bureau of Reclamation
- U.S. Army Corps of Engineers
- Bonneville Power Administration and Northwest Power and Conservation Council
- U.S. Fish and Wildlife Service
- National Oceanic and Atmospheric Administration (NOAA)
- U.S. Environmental Protection Agency
- U.S. Department of Agriculture
- U.S. Bureau of Land Management

For this report, the U.S. Bureau of Reclamation (Bureau of Reclamation), has had the greatest amount of input in recognition of its role as a funding partner and study lead on the Columbia River and Yakima Basin storage feasibility studies, as well as its role in the Potholes

Reservoir Supplemental Feed Route Project, and the Odessa Special Study Project, which are a central part of the water supply inventory. Ecology meets monthly with the Bureau of Reclamation to discuss and coordinate these projects. It should be noted that published information from the other federal agencies is critical to the Bureau of Reclamation's management of the Columbia River (see Chapter 3). As future legislative reports are developed and delivered, Ecology will strengthen its response to legislative mandates in regard to project inventories as well as demand forecasts.

## 2.7 Other State Governments and Canada

The Columbia River drainage basin includes seven western states (including parts of Montana, Idaho, Washington, Oregon, Wyoming, Utah, and Nevada) and British Columbia, Canada. Introducing the Management Program, as passed by the Washington State Legislature, into the existing multi-jurisdictional framework of state and provincial governments is a critical piece in improving the overall Columbia River system.

Ecology has existing partnerships and relationships with its sister states and continues to explore opportunities to connect with Canadian partners, which include agreements on how the river is managed (see Chapter 3). There has been interest from these parties on further collaboration as Ecology works to implement the Management Program. Oregon was helpful in providing information on the status of its demands, and Ecology plans to work closely with Oregon Water Resources Department to

understand how that demand may change in the future. Idaho and Montana will also be important to future legislative reports because the Snake River drainage is the biggest tributary to the Columbia River.

## 2.8 Tribal Governments

Implementing a Management Program for the Columbia River would not be possible without our tribal partners. The following seven tribal governments were contacted as Ecology has worked to implement the Management Program and during the development of this report.

- Confederated Tribes and Bands of Yakama Nation
- Confederated Tribes of the Colville Reservation
- Confederated Tribes of the Umatilla Indian Reservation
- Confederated Tribes of Warm Springs
- Kalispel Tribe of Indians
- Nez Perce Tribe
- Spokane Tribe of Indians

Four of the Tribes are also invited members of the PAG (Yakamas, Colvilles, Spokanes, and Umatillas). This legislative report describes the role that tribal reserved rights, usual and accustomed fishing rights, and hunting and gathering rights have on the Columbia River. Ecology plans to promote tribal involvement and partnerships as implementation of the Management Program continues.

## 2.9 State Legislature

This legislative report is the first formal status update on Ecology's progress in implementing the Columbia River Management Act. However, because this legislation is so sweeping in its scope, Ecology has been working closely with legislative staff over the last several months to make sure the intent of the legislation is being met. Ecology has attended monthly meetings with staff from both the House and Senate Republican and Democrat caucuses since the passage of the bill to provide updates on the Management Program.

Next year and annually by November 15<sup>th</sup>, Ecology will update the water supply inventory portion of this report. The goal is for Ecology to showcase the progress it is making in:

- Developing the comprehensive inventory of conservation and storage projects that will be used to meet future Columbia River demand.
- Improving the database of information used to make good water right permitting decisions.
- Funding and implementing specific projects each year.

On November 15, 2011, Ecology will update the water supply and demand forecast. Ecology will use the next 5 years to:

- Better understand characteristics of existing demands (paper vs. "wet water").
- Coordinate existing monitoring and management tools for the river (e.g. stream gaging, metering, instream flow coordination, and watershed planning implementation).

- Better forecast future demands (e.g. agriculture, municipal, power, and instream flows).

## **2.10 Specialized Governmental Organizations and Non-Governmental Stakeholders**

The list of stakeholders that are interested in the Columbia River Management Program is long. Ecology's challenge is to be inclusive, and yet be productive. The PAG will serve as a useful forum to allow stakeholders to contribute to development of the Management Program. Additionally, Ecology has and will continue to reach out individually and by organization to involve stakeholders. Below are some examples of efforts conducted during this first year:

- Jay Manning, Director of the Washington State Department of Ecology, gave a keynote address at the Columbia-Snake River Irrigators Association's Columbia River Forum on July 20, 2006.
- Derek Sandison, Regional Director of the Central Regional Office of Ecology, gave a presentation to the Council of State Governments (West) conference on August 12, 2006 on the Columbia River Water Management Program.
- Tom Tebb, Section Manager of the Central Regional Office of Ecology, gave a presentation to the Washington Agriculture & Forestry Education Foundation Agricultural Issues Seminar on September 13, 2006 on the Columbia River Water Management Program.
- Derek Sandison, Regional Director of the Central Regional Office of Ecology, and Gerry O'Keefe, Ecology's Columbia River Coordinator, gave a presentation to the Washington State Association of Counties Annual Conference on September 28, 2006.
- Derek Sandison, Regional Director of the Central Regional Office of Ecology, gave a presentation to the Washington State Chapter of the American Planning Association conference on October 5, 2006 on the Columbia River Water Management Program.
- Dan Haller, Columbia River Unit Supervisor, gave a presentation on this legislative report to the Policy Advisory Group on October 11, 2006 requesting feedback and attendance at scheduled open houses.
- Tom Tebb, Section Manager of the Central Regional Office of Ecology, gave a presentation at the University of Oregon's Northwest Tribal Water Rights Conference on October 26, 2006 on the Columbia River Water Management Program.
- Derek Sandison, Regional Director of the Central Regional Office of Ecology, gave a presentation to the Columbia Basin Development League's annual conference on November 1, 2006 on the Columbia River Water Management Program.
- Outreach to commodity commissions and agricultural associations (e.g. Washington State Potato Commission, Apple Commission, Cattleman's Association, Washington State Farm Bureau, Northwest Food Processor's Council, and many others) as part of WSU's survey of agricultural demand forecasting.
- Watershed planning units, environmental groups, PAG members, members of Ecology's Columbia River email listserv and other stakeholders were sent a direct mailing providing a description of our legislative report efforts and inviting them to provide input and attend scheduled open houses.

## 2.11 Public Outreach

Ecology has developed and implemented many public outreach tools this year to showcase the Management Program, including:

- Enhancement of its Columbia River website.<sup>2</sup>
- Development of a Columbia River email Listserv for regular updates on the program and this legislative report.<sup>3</sup>
- Development of focus sheets.<sup>4</sup>
- Scheduling of four open houses to solicit public comment on the report. These open houses were coordinated with the Draft Programmatic Environmental Impact Statement to increase the exposure of the event.

Ecology invited the public to comment on this report from October 16 to November 8, 2006. Because of the time frame for this report identified by statute (RCW 90.90.040), the public comment and review period between the draft and final report was not as long as it will be in the future. Comments received during the report are provided in Appendix A. Ecology addressed as many comments as possible in this document, and will thoughtfully consider all the comments it received for inclusion in future legislative reports. Notice to the public for the comment period and open houses was provided on the Columbia River Water Management

<sup>2</sup>

<http://www.ecy.wa.gov/programs/wr/cwp/crwmp.htm>

<sup>1</sup>

<sup>3</sup> <http://listserv.wa.gov/archives/cwp.html>.

<sup>4</sup>

<http://www.ecy.wa.gov/programs/wr/cwp/images/pdf/crwmb.pdf> and [http://www.ecy.wa.gov/programs/wr/cwp/crwmp\\_qa.nda.html](http://www.ecy.wa.gov/programs/wr/cwp/crwmp_qa.nda.html).

Program website and email distribution list (Listserv), by U.S. Mail, and via advertisements published in the Wenatchee World, Colville Statesman-Examiner, Columbia Basin Herald, and the Tri-City Herald. Public Service Announcements were also distributed to radio stations throughout the region.

### Open Houses

<b>October 24, 2006 4:00pm - 7:00 pm</b> Big Bend Community College Advanced Technologies Education Center ATEC Rooms 1870 A and B 7662 Chanute St. NE Moses Lake, WA
<b>October 25, 2006 4:00pm - 7:00 pm</b> Agricultural Trade Center 317 West Astor Colville, WA
<b>November 01, 2006 4:00pm - 7:00 pm</b> Three Rivers Convention Center 7016 West Grandridge Blvd Meeting Rooms E and F Kennewick, WA
<b>November 07, 2006 4:00pm - 7:00 pm</b> Coast Wenatchee Hotel 201 North Wenatchee Ave Fuji Room Wenatchee, WA

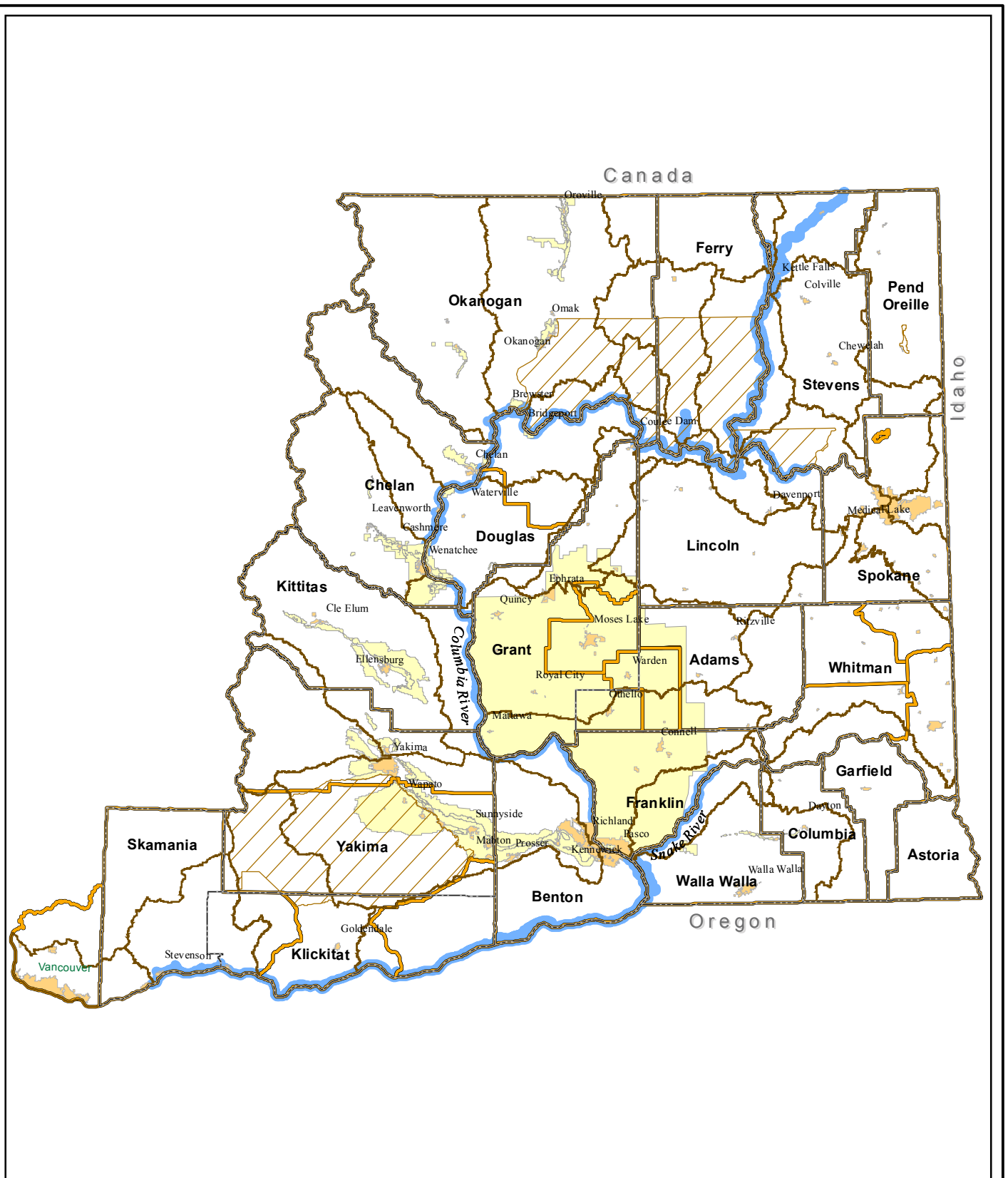
## 2.12 Next Steps

In many ways, this report tells us about the tools we have to work with as we implement the Management Program. It tells us how much water there is in the Columbia River now, how that has changed historically, and how it may change in the future. It tells us about how demand for water is likely to grow over time and where this growth will occur. It tells us what conservation opportunities we have, and how to consider the need for new storage to meet future demands.

If this report is the tool, then the Programmatic EIS is the choice on how to use that tool. Much can be derived from a plain reading of the legislation. Yet policy choices remain, which will be answered in the Programmatic EIS (see Chapter 6, Policy Alternatives of Ecology, 2006b). The next major public involvement opportunity will occur in the spring when the Final EIS is released. Ecology plans to hold a Columbia River Summit to showcase the policy alternatives selected, how those alternatives will affect the Management Program, and what it means for on-the-ground implementation of the conservation and storage projects described in this report. Ecology plans to encourage public involvement in the summit.



**FIGURE**



## LEGEND

- Highway
- River
- County Boundary
- WRIA Boundary
- Indian Reservation
- Irrigation District
- Conservation District

25 0 25  
Scale in Miles

Map Projection:  
UTM Zone 11, NAD 83

Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.



**JURISDICTIONAL BOUNDARIES**  
WSDOE/COLUMBIA BASIN WATER SPPLY/WA

## FIGURE 2-1 COLUMBIA RIVER BASIN LOCAL

## **APPENDIX A**

### **Stakeholder Comments**

## **LIST OF TABLES**

Table A-1	Stakeholder Comments Received
Table A-2	Stakeholder Comments Addressed in this Report

## **TABLES**

**Table A-1. Stakeholder Comments Received**

Entity	Date Received	Format
<ul style="list-style-type: none"> <li>American Rivers</li> <li>Washington Environmental Council</li> <li>Washington Rivers Conservancy</li> </ul>	11/8/06	e-mail
BPA, U.S. Department of Energy – Bonneville Power Administration, Portland OR	11/8/06	fax
Bureau of Reclamation, U.S. Department of Interior, Bureau of Reclamation, Ephrata Office	11/8/06	fax
Center for Environmental Law & Policy <i>Note: Includes comments on draft EIS too.</i>	11/6/06	hard copy
Columbia River Inter-Tribal Fish Commission	11/8/06	e-mail
<ul style="list-style-type: none"> <li>Columbia Riverkeeper</li> <li>Citizens for a Clean Columbia</li> </ul>	11/8/06 and 11/9/06	mail and e-mail
Kennewick Irrigation District	11/8/06	hard copy
WRIA 32 Walla Walla Watershed	11/8/06	e-mail and mail
Yakama Nation <i>Note: Staff comments, not the policy or legal positions of the Yakama Nation.</i>	11/8/06	e-mail



**Table A-2.** Stakeholder Comments Addressed in this Report

Entity	Comment	Response
<b>NOTE: Not all the comments received on the draft report were addressed in the final report. Any comment not listed in this table will form the basis for improvement next year. See the original comment documents provided in Appendix A for the complete list of comments.</b>		
American Rivers, Washington Environmental Council, and Washington Rivers Conservancy	First, the Draft Report does not accurately describe the legislature's charge to Ecology embodied in ESSHB 2860. Specifically, on the first page of the Executive Summary it states: "Ecology's mission to aggressively develop new water supplies for both instream and out-of-stream uses is intended to be accomplished through funding conservation projects and building additional storage facilities." (ES-1) This is inaccurate. Section 1 of the Act plainly states that storage and conservation should be included as tools to obtain new supplies, but it does not limit the means to obtain new supplies to those tools. Moreover, the term storage encompasses various actions beyond "building additional storage facilities", including reoperating dams to optimize the use of existing storage facilities and purchasing water from Canada.	Revised
American Rivers, Washington Environmental Council, and Washington Rivers Conservancy	This mischaracterization of the Act's mandate surfaces in several places in the Draft Report. On page three of the Executive Summary it states: "It is through conservation and storage that Ecology has been directed to meet future demand." (ES-3) Toward the end of the Executive Summary it states: "...actual future demands for water can be accommodated in large part through the Management Program's current strategy of conservation and storage." (ES-14) And in the section on water supply and demand forecasts it states: "Over the long-term, it appears that the current strategy of accommodating growth in water demand through conservation and storage improvements will be successful..."	Revised p. ES-3, ES-14, and in the supply and demand forecast section
American Rivers, Washington Environmental Council, and Washington Rivers Conservancy	Second, Section 5-4 contains a conclusion that is not supported by the information presented in the body of the report. Specifically, the report states: "However, it is also likely that the demand for water currently expressed in existing water right applications is representative of demand for water in the future." (5-11, 12) There is no rationale provided for this assumption, and, as explained in other sections of the report, there is a discrepancy between existing water right applications and initial estimates of projected demand. (5-10). The reality is, as admitted elsewhere in the report (e.g., "...no definite conclusions could be made regarding the need for additional water based solely on this report" (5-8)), there is insufficient information to draw this conclusion and the final report should accurately reflect the current state of knowledge.	Revised

Entity	Comment	Response
BPA, U.S. Department of Energy – Bonneville Power Administration, Portland OR (BPA)	Page 3-4 middle of first complete paragraph second sentence current language doesn't fully describe the current variation in flows. ...However, the Columbia River still has very large seasonal and annual variations in stream flows.... (delete "does still exhibit some natural variability in flow.")	Replaced with suggested language.
BPA	Page 3-4 second paragraph The Bonneville Power Administration (BPA) is unaware of the MMS system.	Changed from BPA to Bureau of Reclamation.
BPA	Page 3-4 second paragraph The idea that BPA only run 50 year studies is not true. Some studies use 50 years for various reason, others run 70 years from 1928 to 1998. Other studies have looked at 1878 to 2006 flows at The Dalles. The 50 and 70 year flow data are modified flows, adjusted to remove reservoir regulation at projects we simulate and modified to the same level of irrigation depletion and reservoir evaporation.	Deleted the following sentence: Data later than 1978 has not yet been run through the BPA Hyd-Sim model.
BPA	Page 3-4 second paragraph HYDSIM does not optimize power generation or provide or determine resource adequacy. It simulates coordinated system reservoir operation on a monthly basis given a reservoir operating capacity. HYDSIM is an effective tool for analyzing the reservoir system operation under a range of project inflows and a given operating policy.	Removed the first sentence from the second paragraph and added a sentence to the end of the first paragraph.
BPA	Page 3-11 Section 3.4 Bullet about ESA Last sentence should read, "Biological Opinions (BIOP) have been prepared for the Federal Columbia River Power System (FCRPS) that provide requirements for the federal agencies to operate the river to comply with the Endangered Species Act (ESA)..."	Added the sentence.
BPA	Page 3-11 Section 3.4.2 ...especially the large water storage reservoirs. The federally owned power generation and transmission system in the Northwest is the Federal Columbia River Power System (FCRPS). The three most active federal agencies involved in the Columbia River, BPA, The Bureau of Reclamation and the Corps of Army Engineers are the agencies that operate and maintain the FCRPS. The federal agencies are subject to a variety ....Delete the language that starts with...The three most active federal agencies through the end of that sentence. These three agencies are not the FCRPS.	Deleted the suggested sentence.

Entity	Comment	Response
BPA	<p>Page 3-11 Section 3.4.2 Number 3 BPA</p> <p>The BPA markets wholesale electrical power generated from the 31 federal hydro projects in the Columbia basin and one non-federal nuclear power plant and owns, operates and markets transmission services in the Pacific Northwest from its high voltage transmission system. BPA is a self financed agency which pays for its costs through power and transmission sales.</p> <p>The Northwest Power Planning and Conservation Act directs BPA to fund and implement measures to protect mitigate and enhance fish and wildlife affected by the development and operation of any federal hydroelectric project on the Columbia River and its tributaries.</p>	Replaced on p. 3-13.
BPA	<p>Page 3-13 Please include additional language about the BIOP in third paragraph</p> <p>Operation of the FCRPS is also subject to many operational requirements which are set by the BIOP and other agreements. Hydro operations for the protection of endangered and threatened species include the following:</p> <ul style="list-style-type: none"> <li>• Minimum Operating Pool (MOP)</li> </ul> <p>The Minimum Operating Pool (MOP) is the minimum elevation that a reservoir behind a dam can be at and still be able to operate for navigation. The purpose of the MOP operation is to reduce juvenile salmonid travel time through the reservoirs. The lower Snake River Dams – Lower Granite, Ice Harbor, Lower Goose and Lower Monumental – operate at MOP from approximately April 3 through the end of August.</p> <p>In addition, the John Day Reservoir is operated at the Minimum Irrigation Pool (MIP) from April 10 to September 30. MIP is the lowest pool elevation at which it is still possible for irrigators to reach the reservoir. Operating at MIP reduces juvenile salmonid travel time through the reservoir.</p> <ul style="list-style-type: none"> <li>• Bonneville Tailwater Flows to Protect Chum</li> </ul> <p>From approximately the beginning of November to the middle of April Bonneville is operated with a minimum tailwater elevation of 11.3 feet. Between 7 AM and 9 PM the tailwater elevation fluctuates only between 11.3 feet and 11.7' feet. By operating Bonneville to these tailwater elevations, the chum habitat is kept watered during spawning and the redds are kept underwater.</p> <ul style="list-style-type: none"> <li>• Flow Augmentation</li> </ul> <p>Storage from Grande Coulee, Hungry Horse, Libby, and Dworshak, and other storage projects are used to augment flows for migrating salmonids during the spring and summer.</p> <p>Include flow targets here that are already in the report on page 3-14</p> <ul style="list-style-type: none"> <li>• Spill</li> </ul> <p>All of the federal projects with fish passage on the Snake and Columbia Rivers</p>	Added text and Excel table that was provided as Table 3-11.

Entity	Comment	Response
<p><i>Comment Continued:</i> BPA</p>	<p><i>Comment Continued:</i> spill water to provide passage for out migrating juvenile salmonids. Water that is spilled over the dam is not used to generate electricity. The level and duration of spill varies at each project.</p> <ul style="list-style-type: none"> <li>• 1% Efficiency: During the salmonid outmigration Bonneville, The Dalles, John Day, McNary, Ice Harbor, Lower Monumental, Little Goose, and Lower Granite operate their turbines within 1% of peak efficiency. When the dams are operated at 1% of peak efficiency a smooth flow is created through the turbines. This benefits fish that pass the dams through the power house. Often this is also beneficial for power because the generators are being operated at their near optimal level of efficiency. However, it occasionally restricts a more preferable operation that allows a higher volume of water to pass through the turbines to generate more electricity (albeit at a lower level of efficiency).</li> <li>• Other Operations: The federal agencies also perform reservoir operations to benefit many other species such as: sturgeon, bull trout, kokanee and other ESA-listed and non-ESA-listed fish and wildlife.</li> </ul> <p>BPA, the Washington Department of Fish and Wildlife, and the Mid-Columbia utilities as part of the Hanford Agreement manage flow levels below Priest Rapids Dam to ensure that Fall Chinook salmon spawn at an elevation which allows the redds to remain underwater during fluctuations in flow.</p> <p>Currently, a new BIOP is being developed by the Federal action agencies, the Columbia River Tribes, and the States.</p> <p>See the excel table for more detail on FCRPS operations for fish. We are providing this table which we think will be helpful.</p>	
BPA	<p>Page 3-15 Please include the additional language the treaty does not terminate in 2024....The treaty was signed in 1961 and approved by Canada in 1964. The Treaty has no termination date. The Treaty allows either Canada or the U.S. the option to terminate the Treaty in 2024 with a 10 years advance notice. If neither party chooses the option the Treaty can continue into perpetuity without any changes. The Treaty (delete 60 year duration) provided for the construction of four upper.....</p>	Replaced with suggested language.
BPA	<p>Page 3-15 Section 3.4.3.2 Second Paragraph include additional language clarifying what Canada did agree to do. ...“Canada pledged in the Treaty not to divert water in such a way that the flow crossing the boundary is altered. This does not include consumptive uses or the option for Canada to divert the Kootenay into the Columbia. Canada did promise not to divert the Columbia water out of the basin i.e. into the Fraser River or to eastern provinces.</p>	Added suggested language.

Entity	Comment	Response
BPA	Table 3-11 Columbia River Treaty does not have an expiration date. 2024 should be removed. Perhaps include the word option in the expiration column with a foot note at the bottom explaining that either country can exercise the option to terminate with a 10-year notice.	Added footnote.
BPA	Page 4- Section 4.5.1 Section 4.5.1 discusses large new storage facilities and their pre-appraisal costs are discussed in table 4-11. From the language in the document it sounds like you have used pre-appraisal when it meant to say the appraise level evaluation will include a more detailed assessment that may include a more detailed assessment of the impacts and benefits to the environment and in-stream and out of stream users. Any appraisal should include the potential power and transmission implications of lifting large quantities of water to fill off stream storage sites.	Clarified
BPA	Table 4-11 It is unclear what costs are included in either the cost estimate or the cost per acre foot column. The details should be included in the footnotes.	Added details of the costs included in the cost estimates in the footnotes.
BPA	Tables 4-9 and 4-10 These tables list federal and non-federal storage by county and purpose, but the tables are not referenced in the document and there is no discussion of how these rights are accounted for in the tabulation of water rights in table 4-14.	Tables 4-9 and 4-10 are referenced on page 4-11. Information in table is the storage capacity of the infrastructure, not the water right.
Bureau of Reclamation, U.S. Department of Interior, Bureau of Reclamation, Ephrata Office (Bureau of Reclamation)	See attached letter for all comments.	Added supply and current out-of-stream and instream demand comparison to Chapter 3. Added supply and future demand comparison to Chapter 5.
Bureau of Reclamation	p. 4-12 editorial changes	Made suggested editorial changes.
Center for Environmental Law & Policy (CELP)	This Initial Report is a good starting point, but is so deficient in basic information (water rights, water supply, conservation, etc.) that it is unsuitable to be used to support effective water resource planning and management.	Page ES-15: Additional work to improve completeness and accuracy of future reports described.

Entity	Comment	Response
CELP	<p><b>B. There are no appropriate, consistent definitions for “conserved water” and “water use efficiency”.</b></p> <p>The report makes sweeping generalizations about the amounts of water potentially to be “conserved”, but the report provides no definition for the term “conservation” and, in CELP’s view, an erroneous definition of “efficiency”. (<i>“Increasing the output with the same amount of input.”</i> p. viii) We believe that efficiency, as it relates to water conservation, must be defined as yielding the same amount of output with decreased input. Reconciling these differing views of “efficiency” and defining “conservation” is necessary before meaningful calculations can take place as to potential in-stream impacts from water conservation activities.</p>	<p>Glossary: definition for conservation included and definition for efficiency augmented.</p>
CELP	<p><b>B. Lack of definitions and sufficient data regarding conservation prohibit the use of the Initial Report for implementation of the CSRIA VRA.</b></p> <p>The CSRIA VRA is seeking new water rights and to change existing interruptible water rights to non-interruptible rights. The VRA plans to acquire more water through water conservation practices implemented under the new law. Clearly, however, the initial report proves there is insufficient information to make any determinations on water conservation now or in the near future. In fact, specific conservation measures, where conserved water can be used, the definitions of “conserved water” and “water use efficiency”, and even how to calculate the amount of conserved water are undefined and unknown. In spite of this, the Draft Environmental Impact Statement is analyzing the VRA and the CSRIA is expecting it to be approved next year. As of this moment, the CSRIA is conducting the required sixty-day consultation period with local authorities, Department of Fish and Wildlife, affected tribes, and federal agencies. Given the deficiencies of this report, on what basis can these entities be expected to provide informed, thoughtful, responsible comparisons and comments? How can the public be expected to do so? Approval of the CSRIA VRA based on information in this Initial Report would be arbitrary and capricious and clearly contrary to the public interest. Ecology’s approval of the CSRIA VRA, or any other VRA, should (among other things) await the preparation of an updated Inventory &amp; Report that contains more meaningful baseline information.</p>	<p>Page ES-17: Additional information on the role of the Technical Advisory Group included relative to screening and ranking of conservation projects. Decisions on implementation of the CSRIA VRA will be made following consultation with affected government agencies and the public as required by statute. Additionally, funding criteria will be established in the Final EIS with input from external stakeholders and the Columbia River Policy Advisory Group.</p>



Entity	Comment	Response
CELP	<p><b>C. The Report's "Conclusions" are devoid of factual support</b></p> <p>In spite of its many disclaimers as to accuracy or usefulness of information, the report inexplicably concludes that "actual future demands for water can be accommodated in large part through the Management Program's current strategy of conservation and storage." (p. 5-10) And, without contacting any of the individuals who have submitted water right applications over the last fifteen years to see whether they are still interested in securing new water rights, and despite reports suggesting that the amount of irrigated acreage has substantially declined since 1997, the report nonetheless concludes that water demand expressed in the applications is "likely representative of the demand for water in the future..." Finally, without any preceding factual basis, appears the conclusion that the conservation and storage strategies in the Columbia River bill are "likely to improve water supplies for all beneficial uses, including streamflows..." and "the current strategy of accommodating growth in water demand through conservation and storage improvements will be successful..." (p. 5-12) For a report to conclude with these statements while at the same time the report itself acknowledges it does not and cannot quantify demand, conservation, storage, or water supply, severely compromises the report's objectivity and usefulness as a tool for further decision-making.</p>	<p>Page ES-10: The likelihood that the Tier 1 forecasts overestimate demand in pending applications is acknowledged.</p>
Columbia Riverkeeper and Citizens for a Clean Columbia	<p>Ecology cannot issue new water rights based on speculative future conservation.</p>	<p>Pages ES-3, ES-15. Specific conservation projects will be vetted through transparent funding protocols and the technical merit of specific proposals will be evaluated by the Technical Advisory Group. Conservation projects will be monitored for actual "in the river" savings in Ecology's trust water program. New permits will be issued based on actual conservation savings, not projections.</p>
Columbia River Inter-Tribal Fish Commission (CRITFC)	<p>Section 2.6 Federal Government</p> <p>The Bureau of Land Management should be included in the list of federal agencies as they have a role in water management on federal lands under their jurisdiction.</p>	<p>The Bureau of Land Management is in the list.</p>

Entity	Comment	Response
CRITFC	Section 3.2.1 (Climate): The Draft fails to mention the specific impacts of observed climate change of the 20th Century on weather or hydrologic patterns. Draft fails to consider the negative impacts from future climate change, which is expected to accelerate in coming years: warming winter temperatures, less snow accumulation, and increased variability of the snowmelt patterns. The Pacific Northwest climate change impacts on streamflow—past and future – have been well documented by the University of Washington’s Climate Impacts Group (Mantua 2006, Mote 2006). Dittmer (2005) shows that during the last 100 years, the sub-basins of Washington have seen the median of the seasonal runoff shift earlier in time by 2 to 17 days and an 8% to 26% shift of spring-summer seasonal flows to autumn-winter. Any baseline assessment needs to take into account observed climate change impacts.	Added more specific information on climate change.
CRITFC	Section 3.4 Other Institutional Factors Ecology grants Section 401 CWA certifications for FERC-licensed hydro projects. These certifications affect water quantity and quality and should be included as other institutional and legal factors. There is no mention of the Fish and Wildlife Coordination Act in this Section that was established to mitigate the impacts of FCRPS dams on Fish and Wildlife.	Added mention of the Section 401 CWA regulations and Fish and Wildlife Coordination Act.
CRITFC	Section 3.5.3.2 (NWRFC – Northwest River Forecast Center): The NWRFC no longer uses the SSARR model. NWSRFS is their sole river forecast tool.	Deleted mention of the SSARR model.
WRIA 32 Walla Walla Watershed	The United States Army Corps of Engineers/Confederated Tribes of the Umatilla Indian Reservation Feasibility Study was awarded \$400,000 from the Department of Ecology under the The Columbia River Basin Water Management Act (House Bill 2860) in June, 2006. This is not mentioned in the document, nor is the major water storage project that it is studying mentioned either. The USACE/CTUIR Study is only mentioned indirectly in table D-7 where one of the project alternatives under consideration, storage on Pine Creek, is found. More information on the project should be included in the final draft as \$400,000 of Columbia River Water Management Funding has already been granted toward its development. Information can be acquired from Rick George, CTUIR at (541)276-3165 or from Chris Hyland, USACOE at (509)527-7264.	Added the information to Section 1.2.1.
Yakama Nation <i>Note: All Yakama Nation comments represent Staff comments, not the policy or legal positions of the Yakama Nation.</i>	ES-4 It is not correct that the Yakima Storage Study is “under the auspices of the (Columbia river) Management Program”. The Yakima Storage study, which was supported by the Yakama Nation, began years before the Columbia River Bill passed and is proceeding under entirely different statutory authority. It is not clear what the authors mean by the “Yakima Pump Exchange Study”, but if the reference is to the Kennewick Pump Exchange study, that is being performed under the auspices of the federal Yakima River Basin Water Enhancement Project.	Removed the Yakima storage study and Yakima Pump exchange study from the list.

Table A-2

Entity	Comment	Response
Yakama Nation	ES-6 The report discusses the Yakima Storage Study alternatives interchangeably with the Columbia River four storage options. The report should clarify that the purposes being contemplated in the Yakima Basin Storage Study are improving instream flow and out of stream supply in the Yakima Basin, not the Columbia.	Added discussion on pg ES-6.
Yakama Nation	ES-9 The discussion on river management neglects the role of the Treaty Reserved water rights held by the Columbia River Treaty Tribes necessary for the continued exercise of their Treaty fishing rights. These rights have a Time Immemorial priority date and, therefore, are the senior water rights on the river and must be satisfied before any existing or possible future water rights.	Added additional text to page ES-9.
Yakama Nation	ES-10 A water right application is not a “demand”, it is a request, and is subject to a number of tests including water availability, impairment, and public interest. The existence of an application does not convey a water right or create an obligation to issue a water right.	Page ES-10: The likelihood that the Tier 1 forecasts overestimate demand in pending applications is acknowledged.
Yakama Nation	ES-12 Presumably “reclaimed water” would come from return flows from treatment plants or other discharges of non-consumptively used water that are already in the river. The report needs to explain how such reclaimed water could be used for new consumptive use “without new demands on the river”.	Page 4-8. Additional discussion on reclaimed water included.
Yakama Nation	xii Permit-exempt well. The definition offered is based on an opinion by the AG’s office and is contrary to long-standing Ecology interpretation, is disagreed with by many entities, and has not been tested in court.	Added: “According to the Attorney General’s Office” in the definition
Yakama Nation	3.3.1 The mainstem Snake is not under adjudication in Washington, but in Idaho. Clarify.	Added “in Idaho” to the sentence.
Yakama Nation	3.3.3.2 This section should clarify that only a portion of the Odessa Subarea is within the CBP. The section misleads the reader to believe that the entire Subarea was opened to groundwater pumping in anticipation of CBP water bailing the area out before the aquifers were mined out. Leaving aside the question of whether those within the CBP had a reasonable expectation, those outside did not. The report should clarify the limits on the proposed actions to bring water to Odessa. In addition, faulty well drilling has been known to be a problem in the Odessa for decades. Cascading multi-aquifer wells exacerbate the problems and are illegal under Washington law. Any legitimate assessment of the problems in Odessa should address this.	Clarified
Yakama Nation	Table 3.6 Should clarify that the Snake River is not under adjudication in Washington.	The column heading now says: “Snake River is under Adjudication in Idaho”.

Entity	Comment	Response
Yakama Nation	4.2.6 Should clarify that a switch from a treatment plant that discharges to a river to a reclaimed water plant does not actually create “new water” that is available for new uses.	Page 4-8. Additional discussion on reclaimed water included.
Yakama Nation	Table 4.9 The storage for Kittitas County appears to be too high, unless it includes Columbia River mainstem storage.	It does not include any Columbia River mainstem storage. It includes the following dams: Cle Elum, Kachess, Kachess Dike, Keechelus, Roza Diversion, and Easton Diversion.
Yakama Nation	5.5.1 This section reads like self-promotion, both for the Program and consultant. It seems to have nothing to do with the Columbia River Bill and should, perhaps, be deleted.	Chapter 5: Section deleted.
Yakama Nation	5.2.7 The section omits a crucial consideration. Conservation opportunities within tributary watersheds are being compared to “demands” in the Columbia River. Where these “savings” are non-consumptive in nature, the conservation would not be expected to provide any water to the Columbia, a fact the report attempts to make. However, even with consumptive savings, there is a high likelihood that saved water would be committed to other uses in the watershed rather than credited to the Columbia River. This may be particularly true, where the conservation is within a federal Reclamation project, like the Yakima Project, where saved water would likely be used to stabilize irrigation supply for proratable irrigators and augment inadequate instream flows, or retained in storage for these purposes. The report should be revised to correct this deficiency.	Added another consideration.

## **STAKEHOLDER COMMENTS**



*American Rivers*

November 8, 2006

Dan Haller  
Washington State Department of Ecology  
Central Regional Office  
15 W. Yakima Ave., Suite 200  
Yakima, WA 98902-3452

Dear Dan:

American Rivers, Washington Environmental Council, and Washington Rivers Conservancy (the Conservation Groups) appreciate the opportunity to comment on the Department of Ecology's Draft Columbia River Legislative Report – Columbia River Water Supply Inventory and Long-Term Water Supply and Demand Forecast (Draft Report). We are sure that it was difficult to produce such a report in the short period of time allotted, and we commend Ecology staff and the contractors for their efforts.

We agree with the statement in the Draft Report that "the future balance between water supply and water demand in the Columbia River is not well defined." (5-11) This is a key finding because it points to the need for more information and more robust analysis prior to making large financial commitments to develop new water supplies along the Columbia. The Draft Report is replete with references to the fact that the information used is incomplete and that the analyses were simplistic and based on assumptions that may or may not be correct. This is not a fault of the Ecology and the contractors who wrote the report; rather, it reflects a lack of information and insufficient time to make more thorough analyses.

Nonetheless, the Draft Report does, for the first time, gather extant information on water use, demand and supply in the Management Zone covered by the Columbia River Water Management Program established pursuant to ESSHB 2860 (the Act). In addition to identifying significant gaps in information and analysis, the Draft Report does reveal some interesting preliminary findings relevant to early implementation of the program. For example, it shows that there is substantial conservation potential both in the agricultural and municipal sectors that could go a long way toward helping meet future demand, and that projected consumptive use needs in the Basin could potentially be met without the construction of any large new surface storage facilities. Again, we understand that the estimates of future demand and conservation potential are preliminary and that there are complicating factors, but this is important information that Ecology, legislators and the Policy Advisory Group should bear in mind as implementation of the program begins.



The report contains a lot of information that we are pleased to see, including the effort to develop a decision support system to enable Ecology to effectively use data and modeling in managing Columbia River water. However, given the short comment period, our comments focus on a few significant flaws in the Draft Report that need to be rectified.

First, the Draft Report does not accurately describe the legislature's charge to Ecology embodied in ESSHB 2860. Specifically, on the first page of the Executive Summary it states: "Ecology's mission to aggressively develop new water supplies for both instream and out-of-stream uses is intended to be accomplished through funding conservation projects and building additional storage facilities." (ES-1) This is inaccurate. Section 1 of the Act plainly states that storage and conservation should be included as tools to obtain new supplies, but it does not limit the means to obtain new supplies to those tools. Moreover, the term storage encompasses various actions beyond "building additional storage facilities", including reoperating dams to optimize the use of existing storage facilities and purchasing water from Canada.

This mischaracterization of the Act's mandate surfaces in several places in the Draft Report. On page three of the Executive Summary it states: "It is through conservation and storage that Ecology has been directed to meet future demand." (ES-3) Toward the end of the Executive Summary it states: "... actual future demands for water can be accommodated in large part through the Management Program's current strategy of conservation and storage." (ES-14) And in the section on water supply and demand forecasts it states: "Over the long-term, it appears that the current strategy of accommodating growth in water demand through conservation and storage improvements will be successful..."

Again, these statements inaccurately describe the legislature's direction to Ecology. In addition to the clear language in Section 1 cited above, Section 2(2)(a) of the Act states that funds to implement the Act can be spent on, in addition to conservation and storage, "any other actions designed to provide access to new water supplies ..." Thus, Ecology's mandate is broader than using just conservation and storage supply tools and Ecology should revise the final report to accurately state its mandate.

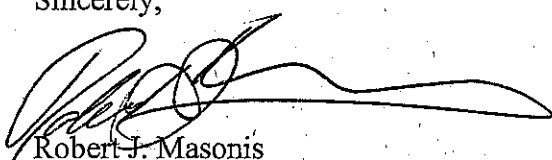
Second, Section 5-4 contains a conclusion that is not supported by the information presented in the body of the report. Specifically, the report states: "However, it is also likely that the demand for water currently expressed in existing water right applications is representative of the demand for water in the future." (5-11, 12) There is no rationale provided for this assumption, and, as explained in other sections of the report, there is a discrepancy between existing water right applications and initial estimates of projected demand. (5-10). The reality is, as admitted elsewhere in the report (e.g., "...no definite conclusions could be made regarding the need for additional water based solely on this report" (5-8)), there is insufficient information to draw this conclusion and the final report should accurately reflect the current state of knowledge.

In closing, we wish to emphasize the importance of properly framing the issues for implementation of the Columbia Water Management Program. There are diverse views

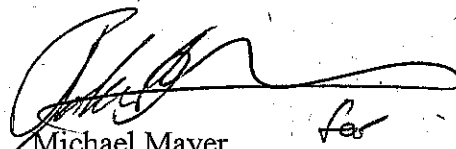
among both legislators and stakeholders regarding how the program should be implemented to ensure that the twin goals of the Act – providing water for consumptive use needs and environmental protection – are achieved. It is important that Ecology help to narrow this gap by accurately presenting the projected water need and water supply; as well as and the tools at its disposal to increase water supply. By doing so, the agency will increase the likelihood that the promising collaboration underway through the Policy Advisory Group will succeed.

Thank you for your consideration, and we look forward to seeing the final report.

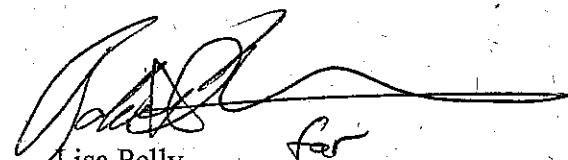
Sincerely,



Robert J. Masonis  
Senior Director  
American Rivers



Michael Mayer  
Legal Director  
Washington Environmental Council



Lisa Pelly  
Executive Director  
Washington Rivers Conservancy



**Department of Energy**

Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

POWER SERVICES

November 8, 2006

In reply refer to: PGP-5

Mr. Dan Haller  
Washington State Department of Ecology  
Central Regional Office  
15 W. Yakima Ave., Suite 200  
Yakima, WA 98902-3452

Dear Mr. Haller:

Thanks for the opportunity to comment on the Water Inventory Report. We appreciated having the additional week to work on our comments.

Your report does an excellent job of providing the kind of information Washington will need to consider as it looks at finding water to meet the growing needs of eastern Washington. Having a clear understanding of the existing uses of and constraints on the Columbia River system is extremely important.

We have made a few suggestions that we believe will strengthen the information you have compiled in the report. If you have any questions or need additional information please feel free to contact me or our representative on the Policy Action Group, Cindy Custer at (360) 570-0756 or Rick Pendergrass, Power Operations and Planning at (503) 230-7666.

Sincerely,

A handwritten signature in cursive script, which appears to read "Richard Pendergrass", is written over a horizontal line.

Richard Pendergrass  
Manager, Power and Operation Planning

cc:

Mr. Jim Barton, Corps of Engineers  
Mr. Pat McGrane, Bureau of Reclamation  
Mr. Bill Gray, Bureau of Reclamation

# Federal Hydro System Operations for Fish

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
Lower Columbia Basin	Bonneville BON	Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	Run of River
		If water conditions indicate that minimum flows of 125 kcfs below BON can likely be maintained: implement mainstem chum flows.	Columbia River Chum	November 1-April	Yes	
		If not, provide flows below BON to enable access to spawning areas.	Spring Creek Hatchery Fish Release	March	No	
		Special operations for hatchery release may include: powerhouse 2 priority operation, operation of bypass system, screens installed, spill.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	
	The Dalles TDA	Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	Run of River
		Operate within 1.5 feet of MOP to reduce juvenile travel time.	Spring Salmon/Steelhead	Apr 10-Sep 30	Yes	
	John Day JDA	Operate within 1.5 feet of level that will allow irrigation to reduce juvenile travel time.	Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	Run of River
		Flow objective of 220-260 kcfs.	Spring Salmon/Steelhead	April 10-June 30	Yes	
	McNary MCN	Flow objective of 200 kcfs.	Summer Salmon/Steelhead	July 1-August 31	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	
Mid Columbia Basin	BON, TDA, JDA, MCN	Spring Spill.	Spring Salmon/Steelhead	Approx. April 10-June 30	Yes	
	BON, TDA, JDA	Summer Spill.	Summer Salmon/Steelhead	Approx. July 1-August 31	Yes	
	Priest Rapids* PRD	Flow objective of 135 kcfs.	Spring Salmon/Steelhead	Approx. April 10-June 30	Yes	Run of River
	Priest Rapids* PRD	Hanford Reach protection flows. Grant County PUD limits outflow to minimize juvenile fish stranding.	Salmon/Steelhead	Routinely	No	Run of River
	Priest Rapids* PRD	Vernita Bar protection flows. Flow management from Priest Rapids Dam to ensure that fall chinook salmon spawn at an elevation which allows the redds to remain under water. Flow fluctuations are limited from the time of fry emergence.	Upper Columbia River Fall Chinook Salmon	Approx. October-June	No	Run of River

# Federal Hydro System Operations for Fish

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
Upper Columbia Basin	Chief Joseph CHJ	No Special Operations.				Run of River
	Grand Coulee GCL	Draft for summer flow augmentation, not to exceed reservoir draft limit.	Summer Salmon/Steelhead	July-August	Yes	Storage
		Operate Banks Lake 5 feet less than full to provide water for summer flow augmentation.	Summer Salmon/Steelhead	July-August	Yes	
		Consider opportunities for flood control shift with Brownlee and Dworshak for Lower Snake flow augmentation.	Summer Salmon/Steelhead	Routinely	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
	Libby LIB	Fill to 1,283 ft. by Oct. 1 and maintain elevation of 1,283 to 1,285 or greater through October.	Kokanee	Fall-Winter	No	Storage
		Provide pulsed flows for sturgeon.	Kootenai White Sturgeon	October	Yes	
		Operate to minimum flows and project ramp rates to minimize adverse affects to flow fluctuations.	Bull Trout	Year round	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
	Albeni Falls ALF	Operate to meet flow objectives and June 30 refill.	Spring Salmon/Steelhead	Spring	Yes	Storage
		Maintain low flows (considered annually).	Burbot	December-February	No	
		Maintain elevation of 2,055 feet until Kokanee fry emergence to provide Bull trout forage.	Bull Trout	Fall-Winter	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
	Hungry Horse HGH	Operate to minimum flows and project ramp rates to minimize adverse affects to flow fluctuations.	Bull Trout	Year round	Yes	Storage
		Draft for summer flow augmentation, not to exceed reservoir draft limit.	Summer Salmon/Steelhead	July-August	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	



# Federal Hydro System Operations for Fish

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
Lower Snake Basin	Ice Harbor IHR	Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
	Lower Monumental LMN	Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
	Little Goose LGS	Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
	Lower Granite LWG	Flow objective of 85-100 kcfs.	Spring Salmon/Steelhead	April 3-June 20	Yes	Run of River
		Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
		Flow objective of 50-55 kcfs.	Summer Salmon/Steelhead	June 21-August 31	Yes	
Upper Snake Basin	Dworshak DWR	Draft for summer flow augmentation and water temperature reduction, not to exceed reservoir draft limit.	Summer Salmon/Steelhead	Summer	Yes	Storage
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
	IHR, LMN, LGS, LWG	Spring Spill, no voluntary spill at the Snake River collector projects (LMN, LGS, LWG) when seasonal average flows are forecast to be less than 85 kcfs.	Snake River Spring Salmon/Steelhead	Approx. April 3 - June 20	Yes	
	IHR	Summer Spill.	Snake River Summer Salmon/Steelhead	Approx. June 21-August 31	Yes	
	Black Canyon Boise Diversion Anderson Ranch Minidoka Palisades	Relaxation will attempt to provide 427 kaf from Upper Snake projects for flow augmentation.	Snake River Spring & Summer Salmon/Steelhead	Spring & Summer	Yes	Storage, one diversion project

\* Non-Federal Project

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
----------	---------	--------	--------------	--------	------	--------------

<b>Threatened and Endangered Columbia Basin ESUs</b>
<b>Anadromous Fish Populations</b>
<b>Chinook:</b> Snake River spring/summer and fall; Upper Columbia River spring; Upper Willamette River; Lower Columbia River
<b>Steelhead:</b> Snake River; Upper, Mid-, and Lower Columbia River; Upper Willamette River
<b>Chum:</b> Columbia River
<b>Sockeye:</b> Snake River
<b>Resident Fish Populations</b>
<b>Bull Trout; Kootenai River White Sturgeon</b>

## **Comments on the Columbia River Water Supply Inventory and Long Term Water Supply and Demand Forecast**

**Page 3-4 middle of first complete paragraph second sentence current language doesn't fully describe the current variation in flows.**

...However, the Columbia River still has very large seasonal and annual variations in stream flows.... (delete "does still exhibit some natural variability in flow.")

**Page 3-4 second paragraph**

The Bonneville Power Administration (BPA) is unaware of the MMS system.

**Page 3-4 second paragraph**

The idea that BPA only run 50 year studies is not true. Some studies use 50 years for various reason, others run 70 years from 1928 to 1998. Other studies have looked at 1878 to 2006 flows at The Dalles. The 50 and 70 year flow data are modified flows, adjusted to remove reservoir regulation at projects we simulate and modified to the same level of irrigation depletion and reservoir evaporation.

**Page 3-4 second paragraph**

HYDSIM does not optimize power generation or provide or determine resource adequacy. It simulates coordinated system reservoir operation on a monthly basis given a reservoir operating capacity. HYDSIM is an effective tool for analyzing the reservoir system operation under a range of project inflows and a given operating policy.

**Page 3-11 Section 3.4 Bullet about ESA**

Last sentence should read, "Biological Opinions (BIOP) have been prepared for the Federal Columbia River Power System (FCRPS) that provide requirements for the federal agencies to operate the river to comply with the Endangered Species Act (ESA)..."

**Page 3-11 Section 3.4.2**

...especially the large water storage reservoirs. The federally owned power generation and transmission system in the Northwest is the Federal Columbia River Power System (FCRPS). The three most active federal agencies involved in the Columbia River, BPA, The Bureau of Reclamation and the Corps of Army Engineers are the agencies that operate and maintain the FCRPS. The federal agencies are subject to a variety ....

Delete the language that starts with... The three most active federal agencies through the end of that sentence.

These three agencies are not the FCRPS.

**Page 3-11 Section 3.4.2 Number 3 BPA**

The BPA markets wholesale electrical power generated from the 31 federal hydro projects in the Columbia basin and one non-federal nuclear power plant and owns, operates and markets transmission services in the Pacific Northwest from its high voltage transmission

system. BPA is a self financed agency which pays for its costs through power and transmission sales.

The Northwest Power Planning and Conservation Act directs BPA to fund and implement measures to protect mitigate and enhance fish and wildlife affected by the development and operation of any federal hydroelectric project on the Columbia River and its tributaries.

Page 3-13 Please include additional language about the BIOP in third paragraph

Operation of the FCRPS is also subject to many operational requirements which are set by the BIOP and other agreements. Hydro operations for the protection of endangered and threatened species include the following:

- **Minimum Operating Pool (MOP)**

The Minimum Operating Pool (MOP) is the minimum elevation that a reservoir behind a dam can be at and still be able to operate for navigation. The purpose of the MOP operation is to reduce juvenile salmonid travel time through the reservoirs. The lower Snake River Dams – Lower Granite, Ice Harbor, Lower Goose and Lower Monumental – operate at MOP from approximately April 3 through the end of August.

In addition, the John Day Reservoir is operated at the Minimum Irrigation Pool (MIP) from April 10 to September 30. MIP is the lowest pool elevation at which it is still possible for irrigators to reach the reservoir. Operating at MIP reduces juvenile salmonid travel time through the reservoir.

- **Bonville Tailwater Flows to Protect Chum**

From approximately the beginning of November to the middle of April Bonneville is operated with a minimum tailwater elevation of 11.3 feet. Between 7 AM and 9 PM the tailwater elevation fluctuates only between 11.3 feet and 11.7' feet. By operating Bonneville to these tailwater elevations, the chum habitat is kept watered during spawning and the redds are kept underwater.

- **Flow Augmentation**

Storage from Grande Coulee, Hungry Horse, Libby, and Dworshak, and other storage projects are used to augment flows for migrating salmonids during the spring and summer.

Include flow targets here that are already in the report on page 3-14

- **Spill**

All of the federal projects with fish passage on the Snake and Columbia Rivers spill water to provide passage for out migrating juvenile salmonids. Water that is spilled over the dam is not used to generate electricity. The level and duration of spill varies at each project.

- **1% Efficiency**

During the salmonid outmigration Bonneville, The Dalles, John Day, McNary, Ice Harbor, Lower Monumental, Little Goose, and Lower Granite operate their turbines within 1% of peak efficiency. When the dams are operated at 1% of peak efficiency a smooth flow is created through the turbines. This benefits fish that pass the dams through the power house. Often this is also beneficial for power because the generators are being operated at their near optimal level of efficiency. However, it occasionally restricts a more preferable operation that allows a higher volume of water to pass through the turbines to generate more electricity (albeit at a lower level of efficiency).

- **Other Operations**

The federal agencies also perform reservoir operations to benefit many other species such as: sturgeon, bull trout, kokanee and other ESA-listed and non-ESA-listed fish and wildlife.

BPA, the Washington Department of Fish and Wildlife, and the Mid-Columbia utilities as part of the Hanford Agreement manage flow levels below Priest Rapids Dam to ensure that Fall Chinook salmon spawn at an elevation which allows the redds to remain underwater during fluctuations in flow.

Currently, a new BIOP is being developed by the Federal action agencies, the Columbia River Tribes, and the States.

See the excel table for more detail on FCRPS operations for fish. We are providing this table which we think will be helpful.

**Page 3-15 Please include the additional language the treaty does not terminate in 2024.**

...The treaty was signed in 1961 and approved by Canada in 1964. The Treaty has no termination date. The Treaty allows either Canada or the U.S. the option to terminate the Treaty in 2024 with a 10 years advance notice. If neither party chooses the option the Treaty can continue into perpetuity without any changes. The Treaty (delete 60 year duration) provided for the construction of four upper.....

**Page 3-15 Section 3.4.3.2 Second Paragraph include additional language clarifying what Canada did agree to do.**

...“Canada pledged in the Treaty not to divert water in such a way that the flow crossing the boundary is altered. This does not include consumptive uses or the option for Canada to divert the Kootenay into the Columbia. Canada did promise not to divert the Columbia water out of the basin i.e. into the Frasier River or to eastern provinces.

**Table 3-11**

Columbia River Treaty does not have an expiration date. 2024 should be removed. Perhaps include the word option in the expiration column with a foot note at the bottom explaining that either country can exercise the option to terminate with a 10-year notice.

**Page 4- Section 4.5.1**

Section 4.5.1 discusses large new storage facilities and their pre-appraisal costs are discussed in table 4-11. From the language in the document it sounds like you have used pre-appraisal when it meant to say the appraise level evaluation will include a more detailed assessment that may include a more detailed assessment of the impacts and benefits to the environment and in-stream and out of stream users. Any appraisal should include the potential power and transmission implications of lifting large quantities of water to fill off stream storage sites.

**Table 4-11**

It is unclear what costs are included in either the cost estimate or the cost per acre foot column. The details should be included in the footnotes.

**Page 4-16 Section 4.7.1 Water rights for Power**

Both the Mid-Columbia projects owned and operated by local utilities and the Grand Coulee Project operated by the Bureau of Reclamation have water rights for power generation and may have water rights for storage as well. While federal projects operated by the Corps do not have not state water rights, rights are established in their authorizing legislation. We believe that the state should tabulate the water rights coded for power and reservoir water. While the power rights may not be consumptive, consumptive uses upstream may have impacts to holders of these rights and they may have senior rights that could have a negative impact on these rights. To have a complete picture of the current uses of the Columbia River water these rights need to be tabulated in the water rights analysis.

**Page 4-20 Section 4.9.1.**

The analysis does not tabulate water rights for thermal electric plants. The Columbia Generating Station is a large consumptive user of Columbia River water It has an existing water right for 41,200 acre feet per year. This water right should be tabulated in the water rights inventory along with any other thermoelectric water rights.

**Tables 4-9 and 4-10**

These tables list federal and non-federal storage by county and purpose, but the tables are not referenced in the document and there is no discussion of how these rights are accounted for in the tabulation of water rights in table 4-14.

# RECLAMATION

*Managing Water in the West*

U.S. Department of the Interior  
Bureau of Reclamation  
Ephrata Field Office

P.O. Box 815  
Ephrata, WA 98823

Main Phone: (509) 754-0200

**Fax Cover**

**Date:** Nov 8, 2006

**Deputy Area Manager**

**Pages including this cover:** 4

**Fax:** (509) 754-0220

**To:** Dan Haller

WA St DOE

**From:** Connie Nicolai for Bill Gray

Ephrata Field Office

**Code:**

**E-mail:**

**Fax:**

**Phone:** 509-754-0214

**Message:** "as discussed last night in Wenatchee"

**TRANSMISSION NOTICE:** This fax is intended only for the addressee above. It may contain information that is privileged or otherwise protected from disclosure. Any use of this fax or its contents by persons other than the addressee is strictly prohibited. If you received this fax in error, please notify the sender immediately and mail the original back to the sender at the address above.





*Not built*  
the Feeder Canal, Banks Lake, the Main, West, ~~East High~~, and East Low Canals, O'Sullivan Dam, Potholes Reservoir and Potholes Canal. There are over 300 miles of main canals, about 2,000 miles of laterals, and 3,500 miles of drains and wasteways on the project (Bureau of Reclamation, 2006a). The project irrigation ~~facilities were planned~~ *B authorized* to deliver a full water supply to 1,029,000 acres of land previously used only for dry farming or grazing. About *671,000* ~~621,000~~ acres are currently ~~authorized to be~~ irrigated and further development is on hold.

*For*  
Irrigation water is pumped from Franklin D. Roosevelt Lake by the Grand Coulee Pump-Generating Plant, adjacent to the reservoir at the left abutment of the dam. The Bureau of Reclamation holds water rights that authorize the storage and ~~delivery~~ *use* of ~~3.138~~ *2.6* million acre-foot ~~with~~ development of the CBP. The current average annual diversion for the CBP is ~~2.6~~ million acre-feet.

All basic irrigation facilities applicable to the three Columbia Basin Irrigation Districts (Quincy-Columbia Basin Irrigation District, East Columbia Basin Irrigation District, and South Columbia Basin Irrigation District) are operated by the irrigation districts. Irrigation facilities operated as reserved works by the Bureau of Reclamation include Dry Falls Dam, Main Canal through the bifurcation works including Pinto Dam and Billy Clapp Lake, and O'Sullivan Dam, Potholes Reservoir, and Potholes Canal headworks. Grand Coulee Dam, Powerplant, and Pumping Plant, and Banks Lake also are operated by the Bureau of Reclamation as reserved works.

#### 4.5 Water Storage Inventory Results

The water storage inventory was compiled to fulfill part of Section 5 of ESSHB 2860 using storage assessments prepared under watershed planning, the Bureau of Reclamation studies, and the BPA's (2005) loads and resources study. Storage options were split into categories consistent with the Draft EIS for the Management Program: new large storage facilities (> 1 million acre-feet), new small storage facilities (< 1 million acre-feet), modification of existing storage facilities, and aquifer storage and recovery (ASR) (Ecology, 2006b). The entire data inventory is provided in Appendix D.

##### 4.5.1 Large Storage Opportunities

A variety of new large storage facilities with a capacity of 1 million acre-feet or more are being considered in the Columbia Basin (Table 4-11). A Pre-Appraisal Report on off-stream storage facilities, prepared for Ecology and the Bureau of Reclamation identified eight potential projects larger than 1 million acre-feet. Four of those sites—Hawk Creek, Foster Creek, Sand Hollow, and Crab Creek—will undergo an appraisal level evaluation by the Bureau of Reclamation (Ecology and Reclamation, 2005). The Pre-Appraisal level reports typically include a more detailed environmental assessment that may include benefits to fish and other instream uses, benefits to out-of-stream uses, and environmental and cultural impacts. In addition, the Bureau of Reclamation is in the process of completing the appraisal level evaluation of Black Rock Reservoir, a 1.3 million acre-foot off-stream reservoir in the Yakima Basin as part

This report does not provide clear understanding of the supply available from the Columbia River annually or seasonally as compared to the current or future instream and out-of-stream demands. While this report does provide an estimate of current and future out-of-stream uses from an annual and monthly volume view point these volumes are not compared to any Columbia River volumes. It should be noted that the reported agricultural volumes for current use seem low by 10 to 20%. The Columbia River flows at three points are presented as minimum daily flow rates for two years (2001 and 2003) and are compared with flow objectives. It is not clear how much water is available after meeting the flow objectives. There is no comparison of out-of-stream use flows with Columbia River flows.

The supply for this report should be the Columbia River and its tributaries. No estimates are given for the annual volume of flows in the Columbia River or other rivers which would provide a comparison to the demands. Estimates from the BPA Hyd-sim model for volume are as follows:

	Annual Average (af)	Annual Minimum (af)
Priest Rapids	86,100,000	60,467,000
Bonneville	135,355,000	90,518,000

By using the mainstem Columbia River at Priest Rapids volumes shown above and an out-of-stream current use estimate of 3,500,000 af (which excludes the Yakima Basin) and future estimate of 1,600,000 af and available flow volume estimates from BPA Hyd-sim model of 22,084,000 af average and 1,777,000 af minimum which account for flow objectives a picture can be painted as follows:

- 1) current out-of-stream demands use about 4% to 6% of the Columbia River supply
- 2) instream demands use between 74% (ave) to 97% (dry) of the Columbia River supply
- 3) future out-of-stream demands would use 2% to 3% of the Columbia River supply

Further, current unused active storage within FDR and Banks Lake has the potential to meet future out-of-stream demands.

BPA's Hyd-Sim model currently simulates the Columbia River. It seems prudent to review the current demands and supplies used in this model to compare those with numbers in this report.

11/7/2006

Draft Report Water Supply Inventory and Long-Term Water Supply and Demand Forecast  
By Golder Associates

Summary of Report annual volumes:

Demand:

	Current (af)	Future (af)	w/ Odessa (af)	w/ Full CBP
Agriculture Use	4,060,000	250,000	550,000	990,000
M & I Use	550,000	150,000		
Total Use	4,610,000	400,000		

Flow Objectives	NA	NA
-----------------	----	----

Supply:

River Supply	NA	NA
Ag Conservation		970,000(or some part of)

Total Ag Storage	14,280,000	>6,000,000
Active Storage	NA	NA
Storage Used	NA	NA

Water Rights	8,200,000	NA
--------------	-----------	----

The volumes presented for agriculture use seem low, Yakima Basin and CBP alone use about 4,600,000 af annually (2,000,000 Yakima + 2,600,000 CBP).

The current use and storage volumes above include the Yakima Basin. These volumes are approximately 2,000,000 af for use and 1,500,000 af for storage. The future use volumes for the CBP future development seems low, a better estimate is 1,600,000 af. The future use for the Odessa Subarea converting to Columbia River water, seems appropriate as we have estimated 520,000 af. The future use volumes do not take into account the proposed use of Columbia River water to replace Yakima River water.

No estimates are given for the annual volume of water required by the flow objectives.

The gross conservation number does not take into account that the majority of this water returns back as supply. Much discussion is made about the 970,000 af number being high but it is not clear what the report feels is reasonable from a supply point of view. A reasonable estimate would assume 20% or less of this water could be supply for the future.

It appears the reported storage is total volume and not active storage.



CLEAN, FLOWING WATERS FOR WASHINGTON

The Center for  
Environmental Law & Policy



November 1, 2006

Dan Haller  
Washington Department of Ecology  
Central Regional Office  
15 W. Yakima Ave., Suite 200  
Yakima, WA 98902-3452

Re: Initial Report on Columbia River Water Supply Inventory & Long-Term Water Supply and Demand Forecast, and the related draft EIS

Mr. Haller:

The Center for Environmental Law & Policy ("CELP") is a non-profit membership organization working to defend and develop ecologically and socially responsible water laws and policies. CELP believes that informed, responsible water management is the only way to ensure a legacy of clean, flowing waters for Washington. CELP has been involved with the Columbia River Management Plan since its inception and our research into and involvement with Columbia River issues dates back even further. CELP is the only environmental organization that has appealed Columbia River water right permitting decisions, and is currently a party to a continuing settlement agreement governing future allocations of river water to the Quad Cities of Kennewick, Richland, West Richland, and Pasco. (PCHB 02-216)

The State of Washington is at a crossroad in terms of water management. Faced with climate change and population increases it is crucial that the state engage in deliberate, informed, and thoughtful water management planning now in order to prevent water conflicts and disastrous impacts later. The situation does call for urgency, but policy decisions based on incomplete or erroneous information will place Washington's waters in further jeopardy and shift the burden to the next generation.

This is the first of several sets of comments CELP is preparing regarding the implementation of the Columbia River Bill (ESSHB 2860; aka Columbia River Law) and its accompanying Draft Environmental Impact Statement. Our comments today focus on the newly released 2006 Water Supply Inventory and Long-Term Water Supply and Demand Report ("Report") and its relationship to implementation of Voluntary Regional Agreements in general ("VRAs") and the Columbia Snake River Irrigators Association's ("CSRIA") Voluntary Regional Agreement in particular.

**I. THE INITIAL REPORT ILLUSTRATES THAT INSUFFICIENT INFORMATION CURRENTLY EXISTS TO SUPPORT THE ISSUANCE OF NEW COLUMBIA RIVER WATER RIGHTS FOR OUT OF STREAM USES.**

**A. The Initial Report is flawed and incomplete**

CELP is very concerned with the overall quality of this initial report and how it will be used to inform decision-making. The report itself makes it very clear that it contains huge gaps in even basic information on water supply, demand, and conservation. As a result, there are fundamental

---

2400 North 45<sup>th</sup> Street, Suite 101 Seattle WA 98103 206.223.8454 fax 206.223.8464 [www.celp.org](http://www.celp.org)

BOARD OF DIRECTORS: Melissa S. Arias, Dianne D'Alessandro, Barbara Floyd, Kathy George,  
Barry Goldstein, Wayne Ohlrich, Roger van Gelder, Sims Weymuller, Francis Wood

problems with using this Initial Report to implement SEPA decisions or water management strategies.

There has never been a proper accounting of the water budget for the Columbia River, and the Initial Report makes this deficiency very clear. We are attaching several pages of direct quotes from the Initial Report illustrating some of its disclaimers,<sup>1</sup> such as: *"It is not possible to develop a sophisticated analysis of growth and validate potential growth in agriculture water use... Factors related to conservation, agriculture and economics, and climate factors are not incorporated in this projection of water demand."*<sup>2</sup>

This Initial Report is a good starting point, but is so deficient in basic information (water rights, water supply, conservation, etc.) that it is unsuitable to be used to support effective water resource planning and management.

**B. There are no appropriate, consistent definitions for "conserved water" and "water use efficiency".**

The report makes sweeping generalizations about the amounts of water potentially to be "conserved", but the report provides no definition for the term "conservation" and, in CELP's view, an erroneous definition of "efficiency". (*"Increasing the output with the same amount of input."* p. viii) We believe that efficiency, as it relates to water conservation, must be defined as yielding the same amount of output with decreased input. Reconciling these differing views of "efficiency" and defining "conservation" is necessary before meaningful calculations can take place as to potential in-stream impacts from water conservation activities.

## **II. DEFICIENCIES IN THE INITIAL REPORT MUST BE REMEDIED BEFORE IT CAN BE REASONABLY USED IN DECISION-MAKING RELATED TO THE IMPLEMENTATION OF THE COLUMBIA RIVER BILL AND TO RCW 90.90.030 AND THE CSRIA VRA.**

**A. The Initial Report contains no baseline information and therefore cannot be reasonably used for the purposes Ecology intends.**

Ecology intends to use the Initial Report to "form the foundation for implementing the Columbia River Bill RCW 90.90.030 [VRAs] and [the Initial Report] will help state officials determine the extent of the need for water supplies that will rely upon the Columbia River."<sup>3</sup> CELP vigorously objects to the Initial Report being used for these purposes. The new law took effect on July 1, 2006; and it mandated the preparation of a report by November 15, 2006, that listed, among other things, 1) a supply/demand forecast in order to determine the need for water supplies from the Columbia River and 2) conservation projects that have been implemented under the new law and the amount of water conserved as a result. However, the substantial lack of reliable information regarding future supply/demand makes the Initial Report incapable of meeting the first requirement. As mentioned above and found in the attached memo, the Initial Report repeatedly states it lacks information sufficient to make forecast determinations.<sup>4</sup> Using the supply/demand forecast to "form

<sup>1</sup> See attached memo, titled "Selected Quotes Demonstrating that Data Regarding Water Use, Water Supplies, and Potential Conservation Measures is Incomplete, and is Insufficient to Support Meaningful Analyses and Decision-Making for the Columbia River Management Program and EIS" prepared by CELP, October 31, 2006 from Water Supply Inventory and Long Term Water Supply and Demand Forecast Report, issued October 16, 2006.

<sup>2</sup> Initial Report at 5.8.

<sup>3</sup> Department of Ecology, Columbia River Management website, [http://www.ecy.wa.gov/programs/wr/cwp/draft\\_wsi\\_ltsdf.html](http://www.ecy.wa.gov/programs/wr/cwp/draft_wsi_ltsdf.html) (last visited October 24, 2006).

<sup>4</sup> For example, "The approach used for the forecast is not analytically sophisticated and, ultimately, additional work at both the inventory level and the forecasting level is needed." 5.1 Introduction to Water Supply and Demand Forecast (pg. 5-1).

the foundation” of determining “the extent of the need for water supplies that will rely upon the Columbia River” would be arbitrary and capricious.

Because the law has not yet been implemented, and therefore no conservation projects created, the answer to this second requirement is simply “zero”. Instead, Ecology and its contractors attempted to provide “an inventory of potential conservation projects and potential storage projects.”<sup>5</sup> This “inventory” of conservation projects is admittedly very “preliminary” and “should be used only to screen or compare projects within the inventory.”<sup>6</sup> However, using it for even this limited purpose is inadequate because the inventory itself is so incomplete. The report lists twelve potential agricultural water conservation activities.<sup>7</sup> Yet, only a few of these activities were analyzed for their true conservation ability and cost to implement, making it impossible to effectively “compare projects”. This is particularly troubling, as the CSRIA is charging forward for approval of its VRA under RCW 90.90.030, based on water conservation projects found in the initial report.<sup>8</sup> This report and its inventory are unreliable and unhelpful in making conservation decisions regarding the CSRIA VRA.

**B. Lack of definitions and sufficient data regarding conservation prohibit the use of the Initial Report for implementation of the CSRIA VRA.**

The CSRIA VRA is seeking new water rights and to change existing interruptible water rights to non-interruptible rights. The VRA plans to acquire more water through water conservation practices implemented under the new law. Clearly, however, the initial report proves there is insufficient information to make any determinations on water conservation now or in the near future. In fact, specific conservation measures, where conserved water can be used, the definitions of “conserved water” and “water use efficiency”, and even how to calculate the amount of conserved water are undefined and unknown. In spite of this, the Draft Environmental Impact Statement is analyzing the VRA and the CSRIA is expecting it to be approved next year. As of this moment, the CSRIA is conducting the required sixty-day consultation period with local authorities, Department of Fish and Wildlife, affected tribes, and federal agencies. Given the deficiencies of this report, on what basis can these entities be expected to provide informed, thoughtful, responsible comparisons and comments? How can the public be expected to do so? Approval of the CSRIA VRA based on information in this Initial Report would be arbitrary and capricious and clearly contrary to the public interest. Ecology’s approval of the CSRIA VRA, or any other VRA, should (among other things) await the preparation of an updated Inventory & Report that contains more meaningful baseline information.

**C. The Report’s “Conclusions” are devoid of factual support**

In spite of its many disclaimers as to accuracy or usefulness of information, the report inexplicably concludes that “actual future demands for water can be accommodated in large part through the Management Program’s current strategy of conservation and storage.”<sup>9</sup> And, without contacting any of the individuals who have submitted water right applications over the last fifteen years to see whether they are still interested in securing new water rights, and despite reports suggesting that the amount of irrigated acreage has substantially declined since 1997, the report

<sup>5</sup> Initial Report at 4-1.

<sup>6</sup> Id. at 4-10.

<sup>7</sup> Lining/Piping, On-Farm Efficiency, Management, Fallowing Corners, Acquisition, Tail Water Reuse, Re-regulating/Storage Reservoirs, Permanent Crop Change, Split-Season Acquisition, Land Conservation Program, Power Buyback, and Surface to Ground Water Conversion.

<sup>8</sup> Draft Voluntary Regional Agreement between CSRIA and Ecology, available at [http://www.ecy.wa.gov/programs/wr/cwp/images/pdf/ecy\\_csria\\_drft\\_vra.pdf](http://www.ecy.wa.gov/programs/wr/cwp/images/pdf/ecy_csria_drft_vra.pdf) (last visited October 24, 2006).

<sup>9</sup> Initial Report at 5-10.

nonetheless concludes that water demand expressed in the applications is “likely representative of the demand for water in the future...” Finally, without any preceding factual basis, appears the conclusion that the conservation and storage strategies in the Columbia River bill are “likely to improve water supplies for all beneficial uses, including streamflows...” and “the current strategy of accommodating growth in water demand through conservation and storage improvements will be successful...”<sup>10</sup> For a report to conclude with these statements while at the same time the report itself acknowledges it does not and cannot quantify demand, conservation, storage, or water supply, severely compromises the report’s objectivity and usefulness as a tool for further decision-making.

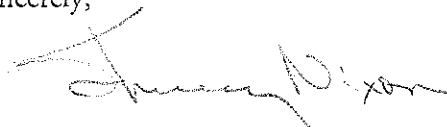
### III. CONCLUSION & RECOMMENDATIONS

The SEPA process is the proper venue for examining the potential alternatives for implementing the Columbia River legislation. The incomplete, inaccurate, self-serving and conclusory statements in the initial inventory report would be laughable if not for the serious implications that flow from them.

- ✓ We urge Ecology to delay further SEPA action including the development of a final EIS until definitions of crucial terms are agreed-upon and sufficient data can be gathered to form a proper foundation for implementing the Columbia River law.
- ✓ Further, as we addressed in our SEPA scoping comments, CELP urges Ecology to immediately engage in rule-making designed to establish operative definitions for terms such as “conservation” and “water use efficiency”, and to set minimum guidelines for consideration of Voluntary Regional Agreements.
- ✓ Finally, we urge Ecology to spend no more taxpayer money on developing storage projects, negotiating or implementing voluntary regional agreements, or issuing water rights for new out of stream uses until such time as Ecology can fill in the many glaring data gaps and deficiencies in this initial report, and can compile the basic information necessary for effective water resource planning and management.

Thank you for considering CELP’s first set of comments. We continue to stand ready to work directly with Ecology or its contractors to offer our organization’s input and expertise on Columbia River and water resource issues.

Sincerely,

  
Shirley Waters Nixon, Senior Counsel  
[snixon@celp.org](mailto:snixon@celp.org)

  
Patrick Williams, Staff Attorney  
[pwilliams@celp.org](mailto:pwilliams@celp.org)

enclosures

<sup>10</sup> Id. at 5-12.



**Selected Quotes Demonstrating that the Data/Research Regarding Water Use,  
Water Supplies, and Potential Conservation Measures is Incomplete, and  
Insufficient to Support Meaningful Analyses and Decision-Making for the  
Columbia River Water Management Program**

**1) Water Supply Inventory Quotes**

- “[T]he short-time frame in which this report was prepared limited the ability to conduct a comprehensive survey of water rights and water use. Existing data on water rights and water use from agency databases was compiled and is presented here with minimal confirmation and no field verification. Conclusions based on this information should be made carefully.” 4.4.1 Overview and Components of the Inventory (pg. 4-1 to 4-2).
- “It is expected that future inventory reports to the Legislature will include more comprehensive estimates of water conservation savings.” 4.3 Water Conservation Inventory Results (pg. 4-8).
- “However, many of the projects had cost estimates prepared 5-10 years ago which means the costs are probably underestimated. They were not updated for this study as more detailed engineering analyses would be needed to accurately estimate costs for the projects. These total estimated costs and water savings should be viewed as being very preliminary and should be used only to screen or compare projects within the inventory. More detailed evaluation of the costs and water savings will be needed before determining the benefits of individual projects.” 4.3.2 Irrigation District Conservation Inventory (pg. 4-9 to 4-10). Quote in regards to the projected average cost per acre-foot for district irrigation conservation projects.
- “Water system plans for the seven largest municipalities in the Columbia Basin were reviewed for current and future water use, demand, and conservation information, including water reuse. Few of these plans provided quantitative information regarding the current conservation and reuse.” 4.3.3 Municipal/County Conservation Inventory (pg. 4-10).
- “Some of the water rights available for review in the WRTS database are incomplete, and duplicate rights listed in the database may overestimate allocated water. The WRTS database may not capture federal or Tribal water rights” 4.6.1 Water Rights (pg. 4-15). Quote referring to the records for water rights within Ecology’s database.
- “The WRTS database contains a significant number of records with no associated  $Q_a$ , the annual quantity, and may include duplicative records. In cases where no annual quantity is reported in the database, the quantity is calculated based on continuous use of the,  $Q_i$ , the instantaneous quantity. This likely over-predicts the maximum allowable annual water use associated with these water rights.” 4.7.1 Washington Water Rights (pg. 4-16) *Note: The appendix to this section, Appendix D, explains that the formula for calculating annual quantity assumed that the instantaneous quantity would be pumped at the highest instantaneous rate for 24 hours per day, 365 days a year.*

- “Additional work is necessary to confirm the water rights analysis...[t]he unusually large value associated with Environmental and Wildlife GUD also needs to be investigated further by additional analysis of the information provided from the Oregon water rights database.” 4.7.2 Oregon Water Rights (pg. 4-18).
- “Ecology has been tracking the number of permit-exempt wells in the Washington State Notice of Intent Database since 1993. The database does not contain entries before 1993 and may contain duplicate entries in the case where wells have been deepened or reconditioned. Furthermore, well drillers were not required to file well logs before 1971; therefore, the existing data sources are incomplete. A further recommendation for Ecology is to improve existing databases or use County building permit records to identify permit-exempt wells.” 4.7.4 Washington Permit-Exempt Water Rights (pg. 4-19).
- “This level of detail is not feasible for the initial forecasting effort, so a surrogate distribution of CIR was developed to translate annual water volumes to monthly water volumes.” 4.8 Water Use Overview (pg. 4-19 to 4-20). Quote regarding Ecology’s inability to calculate the actual monthly water use from different crops.
- “Future updates should be able to address data gaps and accuracy issues by utilizing additional sources, resulting in more robust estimates of water use, especially if metering data are available.” 4.9 Water use Inventory Results (pg. 4-20).
- “The most current basin-wide estimates of water use were published in 2004 by the USGS...and are based on data from the year 2000...” 4.9.1 USGS Water Use Estimates (pg. 4-20).
- “The USGS has no control over the quality and accuracy of the data it receives. At present, the accuracy and confidence limits of the estimates are not quantified. The estimates are aggregated at a County level, and it is not possible to estimate water use within the Management Zone from the USGS reports.” 4.9.1 USGS Water Use Estimates (pg. 4-21).
- “Only seventeen of the thirty-five WRIs in the Columbia Basin study area have plans containing estimates of current and/or future water use. All seventeen have information on current and/or future water use and ten have information on future water use...However, there is no standardized reporting of water use. Some WRIs do not report water use for all categories used in the USGS report, while some combine categories. This lack of complete information makes it difficult to compare discrete categories with the USGS estimates or to compare between WRIs.” 4.9.2 Watershed Plan Water Use Estimates (pg. 4-21).
- “Comprehensive plans for many counties were not available in the short turn around time.” 4.9.3 County Comprehensive Plan Estimates (pg. 4-21).
- “Except for generalized statements regarding water use, comprehensive plans are not useful for the inventory.” 4.9.3 County Comprehensive Plan Estimates (pg. 4-21 to 4-22).
- “The approach used for the forecast is not analytically sophisticated and, ultimately, additional work at both the inventory level and the forecasting level is needed.” 5.1 Introduction to Water Supply and Demand Forecast (pg. 5-1)

- “Both the first tier and second tier forecasts have limitations in their approach that will require future refinement to improve and quantify their accuracy. These limitations could not be eliminated in the short time available to produce the report.” 5.1 Introduction (pg. 5-1).
- “The accuracy of the 242 cfs  $Q_i$  reported in the applications is not known.” 5.2.2 Domestic (pg. 5-2). Quote regarding the amount of water calculated to be in use for the 214 domestic water right applications in the Management Zone of the Columbia Basin.
- “Peaking factors for commercial and industrial use could be lower since the water is often used on a more continuous basis, so the total annual demand associated with 230 cfs of commercial/industrial  $Q_i$  may be underestimated.” 5.2.3 Commercial/Industrial (pg. 5-3). Quote regarding the accuracy of the peaking demand figure for commercial/industrial use.
- “[T]he proportion of conserved water that would accrue to the Columbia River cannot be determined accurately with available data...the proportion of accrual could be in the range of 5 to 20% on an aggregate basis.” 5.2.7 Comparison to Conservation Potential; 5.2.7.1 Agriculture; Consideration 1. (pg. 5-4).
- “Similar to irrigation conservation, the appropriate factors and methodology for assigning appropriate conservation to potential new population and/or new water right needs is not well defined.” 5.2.7.2 Comparison to Conservation Potential; Residential. (pg. 5-5).
- “There is insufficient detail at this time to compare projected storage volumes for smaller water storage projects identified through watershed planning efforts or other local planning documents.” 5.2.8 Comparison to Storage Potential (pg. 5-5).
- “The factors used to project future water use are very generalized aggregate estimates, and have not been “built” from an analysis of the many potentially underlying variables that affect the demand for water. More sophisticated methods of incorporating multiple factors into an aggregate estimate exist, but could not be developed in the short time frame for this project.” 5.3 Second Tier Water Demand Forecast (pg. 5-5 to 5-6).
- “However, because the forecast relies solely on historical data, any factors that affect crop production that have not occurred in the sample period would not be included in the forecast. New technologies or market changes that significantly change crop production compared to the sample period cannot be predicted by this forecast method.” 5.3.1.2 Economic Forecasting Results (pg. 5-7).
- “...[N]o definite conclusions could be made regarding the need for additional water based solely on this report.” 5.3.1.3 Conclusions about Future Water Demand in the Agriculture Sector (pg. 5-8).
- “It is not possible to develop a sophisticated analysis of growth and validate potential growth in agriculture water use.” 5.3.2 Agriculture Sector-USGS Water Use (pg. 5-8).
- “Factors related to conservation, agriculture and economics, and climate factors are not incorporated in this projection of water demand.” 5.3.2 Agriculture Sector-USGS Water Use (pg. 5-8).

- “A more detailed evaluation of individual water right requests and more sophisticated demand projection methodology is necessary to address individual situations and to factor in issues such as the CBP.” 5.3.4 Comparison of First Tier and Second Tier Demand Projections; Consideration 1. (pg. 5-10).
  - “In effect, there is currently not an accurate picture of legal entitlements to water from the Columbia River and there will likely not be in the immediate future.” 5.3.5 Comparisons to Exiting Water Rights and Existing Storage (pg. 5-11).
  - “Based on the available information, the most important conclusion is that the future balance between water supply and water demand in the Columbia River is not well defined...[a]dditional work at both the inventory and forecasting level is necessary to refine the analysis presented in this report.” 5.4 Conclusions (pg. 5-11).
  - “What remains elusive is:
    1. A clear understanding of the detailed connections between various management decisions that are currently applied to water management on the Columbia River, and the relative contributions each have on flow in the Columbia River and its tributaries; and
    2. The degree to which a response to changes in future conditions can be anticipated, in light of current management capabilities, environmental conditions and socioeconomic values in the region.”
- 5.5 Future Considerations for Columbia River Water Forecasting (pg. 5-12).

## **2. Draft Programmatic EIS for the Columbia River Water Management Program**

### **Quotes**

- “A major area of uncertainty in the Columbia River Basin is the relationship between environmental variables and the survivability of anadromous fish...[i]n particular, the relationship between flow levels in the Columbia River and salmon survival is not clear.” S.5 Areas of Uncertainty and Controversy (pg. S-10).
- “Several potential storage sites have been proposed in the project area. The technical and economic feasibility of these sites is not yet known. Reclamation and Ecology will continue to evaluate the feasibility through appraisal and feasibility studies.” S.5 Areas of Uncertainty and Controversy (pg. S-10).
- “It is uncertain how much additional water can be made available through storage, conservation, and other water management projects. The socioeconomic impacts of the Management Program are also uncertain.” S.5 Areas of Uncertainty and Controversy (pg. S-10).
- **The Goal of the Inventory and Demand forecast as stated in the EIS:** “The goal of the project is to develop a comprehensive database of all known conservation project opportunities in the Columbia River Basin in eastern Washington...[t]he data and recommendations will form the foundation for implementing the Management Program and will help state officials determine the need for water supplies in the Columbia River Basin.” 2.1.2.4 Inventory and Demand Forecasting Component (pg. 2-13 to 2-14).

- “Further analysis using water quality models of specific drawdown scenarios would be required to quantify the magnitude of potential impacts.” 5.1.1.3 Impacts at Lake Roosevelt for Non-Drought and Drought Year Withdrawals; Surface Water; Short-term impacts; Water Quality (pg. 5-4).
- “The location and timing of Trust Program water discharge has not been defined to date, making assessment of the adverse or beneficial influences to aquatic resources difficult.” 5.1.2.6 Impacts at Lake Roosevelt for Non-Drought and Drought Year Withdrawals; Fish Wildlife, and Plants; Long-term impacts; Fish (pg. 5-19).



## COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

729 NE Oregon, Suite 200, Portland, Oregon 97232

Telephone 503 238 0667

Fax 503 235 4228

November 8, 2006

Dan Haller  
Washington State Department of Ecology  
Central Regional Office  
15 W. Yakima Ave., Suite 200  
Yakima, WA 98902-3452  
Email : dhal461@ecy.wa.gov

RE: Columbia River Legislative Report Comments

Dear Mr. Haller:

The Columbia River Inter-Tribal Fish Commission (CRITFC)<sup>1</sup> appreciates the opportunity to provide comments to Ecology on the Legislative Report. While we understand the deadline for the report to be filed is mandated for November 15, 2006, we found it very difficult to adequately comment on a 900 page document in three short weeks. We have, however, striven to craft some preliminary comments that we hope you find helpful as you compose your first report.

Attached to this letter are some of our comments on the Water Supply Inventory and the Long-Term Water Supply and Demand Forecast Report.

We thank you for the opportunity to submit these comments and to participate in this process. If you have any questions about our comments, we would be happy to set up a meeting with you to discuss them. Please feel free to contact Julie Carter or Robert Heinith at 503-238-0667.

Sincerely,

Olney Patt, Jr.  
Executive Director  
Columbia River Inter-Tribal Fish Commission

---

<sup>1</sup> In 1977, the Confederated Tribes of the Umatilla Indian Reservation, the Confederated Tribes of the Warm Springs Reservation of Oregon, the Nez Perce Tribe, and the Yakama Nation created the Columbia River Inter-Tribal Fish Commission (CRITFC or "Commission"). These four tribes have 1855 treaty rights to take fish that pass their usual and accustomed fishing places. Consequently, it is of critical importance to the tribes to protect and conserve the habitat and life cycle of the fisheries. The Commission functions to protect, promote, and enhance the Columbia River Basin's anadromous fish resources consistent with the treaty-secured interests of its member tribes by formulating a broad, general fisheries program, and providing technical and legal support.

**SPECIFIC COMMENTS: COLUMBIA RIVER LEGISLATIVE REPORT**  
By the Columbia River Inter-Tribal Fish Commission

## Executive Summary

We suggest that the Columbia River long-term water supply and demand forecast be updated annually instead of every five years. We also suggest that both the water supply and long term water supply inventories be due on July 1, since the new water year begins on August 1. Ecology should allow a minimum of 30 days for the tribes to comment on each plan each year.

While we applaud and support the concept of conservation to meet future out-of-river water needs, our member tribes have had serious questions about development of basin storage project. As we commented in the CRI process and formally before the National Academy of Sciences for the CRI, there is already 30 million acre feet of active storage in the Columbia River system of large reservoirs (Arrow Lakes, Mica, Libby, Grand Coulee) and as the this report notes a total of 46 MAF basin wide in available storage. This is in excess of a third of average basin runoff. What needs to be changed is how this storage is managed. Flexibility for flood control needs through improved forecasting methods is key to better management. Some of these issues are being addressed in the current remand process for the Federal Columbia River Power System Biological Opinion. It is important that the water supply inventory process consider BiOp remand issues that will directly affect in and out-of-river needs.

The Interior Columbia Technical Recovery Team (TRT) assembled to scientifically determine the existing status of ESA- listed salmon stocks and the magnitude of survival recovery necessary for stock recovery. The Interior (TRT) filed an Interim Gaps Report on May 17, 2006. They described the abundance and productivity “gaps” for listed ESUs. They also described viable salmon population parameters beside abundance and productivity which include spatial structure and diversity. The TRT estimated that the change in survival projected required to achieve a 95% chance and a 99% of meeting recovery goals of 2000, naturally producing upper Columbia Spring Chinook adults was between 58-90% and 178-233% respectively (ICTRT 2006). The TRT estimated that the change in survival projected required to achieve a 95% chance and a 99% of meeting recovery goals of 2000, naturally producing upper Columbia Steelhead adults was between 333-769% and 413-944% respectively (ICTRT 2006). To fill these very large gaps may require additional flows over the current BiOp flow targets. The final water inventory report should include this information with the important comment that more flows than currently provided for ESA listed fish may be necessary during the March- September time period.

## Chapter 1

This chapter fails to discuss the history of the tribes and their stewardship of the basin’s natural resources for thousands of years. This chapter also fails to include ESA unlisted salmon, sturgeon and lamprey stocks and provide stock status for each.

### Section 1.2.2 (Columbia River Water Management Program Components):

New storage dams will shift water from one period to the other and may come with two major undesired environmental consequences: (1) Further degradation of the basin hydrology necessary to support fish populations and (2) Mounting evidence suggests that the decomposing vegetation trapped at the bottom of a reservoir generates more greenhouse gas to be emitted into an already



warming atmosphere (IRN 2002). Other demands, such as recreation, may make new storage use problematic for other uses for which they were originally intended.

#### Section 1.2.3.1 (Lake Roosevelt Drawdown):

The proposed draft of 132.5 KaF from Lake Roosevelt, of which only one third is assigned for fish flows, is a very small amount of water. CRITFC and others in the BiOp remand process are examining Lake Roosevelt drawdowns of 2-8 feet (260-900 Kaf) for listed and unlisted salmon and steelhead and Pacific lamprey flows. Additional summer flow augmentation is needed because the McNary summer flow targets have only been met or exceeded three times during 1995-2006.

## Chapter 2

An important part of outreach is allowing stakeholders an adequate amount of time to provide meaningful review and comment on proposed actions. Allowing only 3 weeks to comment on this 900 page report does not meet this objective.

### Section 2.6 Federal Government

The Bureau of Land Management should be included in the list of federal agencies as they have a role in water management on federal lands under their jurisdiction.

### Section 2.8 (Tribal Government):

The Confederated Tribes of the Warm Springs Reservation of Oregon is a tribe that has treaty rights to fish and should be listed and contacted as a separate tribal entity that has an important stake in Washington State water management. Is Ecology or the Washington State Governor's office going to conduct formal government-to-government consultation with the tribes? If so, it should be stated in this Section.

### Section 3.2.1 (Climate):

The Draft fails to mention the specific impacts of observed climate change of the 20<sup>th</sup> Century on weather or hydrologic patterns. Draft fails to consider the negative impacts from future climate change, which is expected to accelerate in coming years: warming winter temperatures, less snow accumulation, and increased variability of the snowmelt patterns.

The Pacific Northwest climate change impacts on streamflow— past and future – have been well documented by the University of Washington's Climate Impacts Group (Mantua 2006, Mote 2006). Dittmer (2005) shows that during the last 100 years, the sub-basins of Washington have seen the median of the seasonal runoff shift earlier in time by 2 to 17 days and an 8% to 26% shift of spring-summer seasonal flows to autumn-winter. Any baseline assessment needs to take into account observed climate change impacts.

### Section 3.2.2 (Reservoirs and Hydropower):

The observed flow record – with many upriver diversions – can give a false picture. It is desirable to compare the observed flow record with a modified-adjusted streamflow record that takes upriver storage regulation changes, irrigation withdrawals, and evapotranspiration into account. Such data has existed for years, maintained by Bonneville Power Administration and recently updated (BPA

2004). Draft fails to consider the BPA modified-adjusted streamflow record, so the cumulative effects on the Columbia River cannot be properly assessed.

New flow forecast tools are now available to improve water management that Washington DOE may not be using (Hamlet et.al. 2003; Wood 2006). Even changes to flood control operations must be considered to mitigate for the regional impacts of global warming (Lee et.al. 2006).

The Draft fails to recognize that BPA's Hydro-Sim hydro-regulation model is outdated. It is desirable to use a standardized, more modern, regional hydro-regulation model, like GENESYS (NPPC 2006), which is a more advanced version of BPA's HYDSIM. GENESYS could help outside users can better understand the proposed operational changes and cumulative impacts.

#### Section 3.3.3.1 Water Metering

Until there is a reasonable quantification of water use via implementation of a comprehensive metering system for all irrigation and municipal water withdrawals from the mainstem Snake and Columbia Rivers, additional water rights and withdrawals from the rivers should not be considered. The report should indicate how such a system will be funded (should be the responsibility of the entity that is withdrawing the water) and when it will be in place.

#### Section 3.3.3.2 Odessa Subbasin

Ecology should not have allowed pumping of the aquifer before a decision was made to expand the Columbia Basin Irrigation Project. BOR declared a moratorium on the Project expansion in the early 1990's due to the ESA listing of salmon stocks. Since that time, more listings have occurred and non-listed stocks, such as Pacific lamprey are in very serious decline. In the face of these serious obstacles, there should be no consideration of expanding the Project. If Ecology and the irrigation community insist on depleting the aquifer for short term uses, there will be long term, likely irreversible impacts to the aquifer.

#### Section 3.4 Other Institutional Factors

This section notes that the BiOp target flows are not generally met. Those flow objectives were established in the 1995 and succeeding BiOps as "... a low estimate of the flow that is likely to avoid high mortality." (NMFS 1995 Basis for flow objectives for Operation of the Federal Columbia River Power System). These flow objectives are in place from April 10- August 31 in the Snake and Columbia Rivers. The July-August "critical" timeframe for anadromous fish flows in the Washington State Legislation is not consistent with the BiOps.

Ecology grants Section 401 CWA certifications for FERC-licensed hydroprojects. These certifications affect water quantity and quality and should be included as other institutional and legal factors.

There is no mention of the Fish and Wildlife Coordination Act in this Section that was established to mitigate the impacts of FCRPS dams on Fish and Wildlife.

#### Section 3.5.3 Forecasting

Improved forecasting is vital to retaining more storage for fish and other uses and better manage flood control in the Columbia Basin. The NRCS has developed statistical methods to provide

forecasting in daily time steps at several Columbia River basin subbasin index sites. The methods can be found at: [ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/daily\\_forecast/](ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/daily_forecast/)

This system needs to be expanded to provide daily forecasts for all major basin index points. In addition to our ongoing monitoring and forecasting of current conditions, the NRCS is implementing improvements in resource data monitoring and assessment capabilities by:

- Further automating of manual snow courses to SNOTEL sites where real-time information is needed to provide water supply forecasts.
- Expansion of SCAN to provide governments, water managers, agricultural producers, businesses and researchers improved information about soil moisture conditions and potential droughts.
- Improving models and computational capacity to provide more frequent and accurate water supply forecasts and assessments of soil moisture.

#### Section 3.5.3.2 (NWRFC – Northwest River Forecast Center):

The NWRFC no longer uses the SSARR model. NWSRFS is their sole river forecast tool.

### Chapter 4 Water Inventory

We appreciate the amount of work over a short time period that was accomplished in generating this overview of river water use in Central Washington. However, there needs to be much more careful and extensive quantification of water use than presented in this Chapter in the final water inventory. This is very important because the foundation of consideration of any more water withdrawals must be premised on the actual, quantifiable, existing use.

#### 4.2.3 Return Flows

It is not mentioned as to how much of the return flows are surface return flows or water table return flows. Further, the water quality characteristics of the return flows are not specified. Return flows that are polluted with agricultural chemicals impact fish.

##### 4.4.1.1. Reservoir Operations

It is not mentioned in this Section but reservoirs are operated to maintain ESA listed lower Columbia River chum flows of about an 11.5 foot tailwater at Bonneville Dam (about 125 kcfs depending on ambient flows, bank storage and tides). While it is mentioned in another report section, reservoirs are also operated to maintain Hanford Reach spawning and redds from November through early May. Thus, fall and winter fish flows are also important. Reservoir elevations are determined by flood control rule curves and also power rule curves. If elevations are below flood control rule curves, power rule curves determine reservoir management.

The amount and timing of water use, including return flows, water lost to evapo-transpiration, changes in consumptive use, unaccounted water and conservation need to be quantified before

consideration of additional river withdrawals. The methodologies to calculate water use are explained in the following footnote:

<sup>1</sup> Calculate the actual water use from water meter data, power meter, or run-time data. In the absence of such data, the TIR (total irrigation requirement) - CIR / EA, where CIR is the crop irrigation requirement from the WIG (Appendix B) and Ea is the case-specific application efficiency above. Reference: Washington State Department of Ecology (Ecology). 2005. Determining Irrigation Efficiency and Consumptive Use. Water Resources Program Guidance. Guide 1210.

There are no error bounds given for any of these metrics. In particular, the method used when actual water use cannot be calculated (TIR –CIR/EA) does not have any qualifiers as to how accurate this method is to actual usage.

#### 4.5.3 Modification of Existing Storage Facilities

As mentioned above in these comments, over 30 MAF of existing storage exists in large reservoirs in the Columbia Basin. Better management of this storage would allow for more water for fish and other uses at a fraction of the cost of building new basin storage facilities. The final inventory report should explore the potential of this concept.

#### Section 5.1 (Water Supply and Demand Forecast):

The Draft fails to consider new planning tools by the Climate Impacts Group (Hamlet 2006) that takes climate change into account for future water plans. Recent conferences (C-CIARN 2005) stress the need for future management systems to adapt to more timely and flexible strategies to mitigate for rapidly changing environmental conditions. Future water management needs to be much more flexible if multiple needs are to be met (Cohen et.al. 2000). Environment Canada (Brugman 2002) research suggests that the glaciers of the Upper Columbia will entirely melt in 20 to 200 years. The Columbia's summer baseflow could drop 30% to 95%. The draft makes no substantial mention of the impacts of climate change and variability – a major shortcoming.

There is no mention of returning the FCRPS to a natural-normative system, as part of a holistic basin-wide ecosystem approach to species recovery. Technical staffs repeatedly recommend a holistic ecosystem and natural river regime approach to managing water and salmon resources in degraded basins (C-CIARN Conference 2005; Transboundary Conference 2002, Bunn and Arthington 2002, Williams et.al. 2000).

# Law Office of Brett VandenHeuvel

OLD GUS SOLOMON COURTHOUSE  
620 SW MAIN STREET, SUITE 615  
PORTLAND, OR 97205

BRETT@LAWOFFICEBV.COM  
PHONE: 503-224-3240  
FAX: 503-223-4518

November 8, 2006

Dan Haller  
Washington State Department of Ecology  
Central Regional Office  
15 W. Yakima Ave., Suite 200  
Yakima, WA 98902-3452

## **RE: Columbia River Legislative Report Comments**

Comments on the Draft Columbia River Water Supply Inventory and Long-Term Water Supply and Demand Forecast Report

Mr. Haller:

I write on behalf of Columbia Riverkeeper and Citizens for a Clean Columbia. Columbia Riverkeeper, which is based in Hood River, Oregon and White Salmon, Washington, is a non-profit organization with a mission to restore and protect the water quality of the Columbia River and all life connected to it, from the headwaters to the Pacific Ocean. Citizens for a Clean Columbia is a non-profit citizens' group based in Wenatchee, Washington who advocate for clean water and a healthy Columbia River system for humans, fish, and wildlife. Both organizations have members that use and enjoy the Columbia River for recreational, scientific, aesthetic, and economic purposes. Those interests may be harmed by components of the Department of Ecology's ("Ecology") actions in the Columbia River Water Management Program.

Columbia Riverkeeper and Citizens for a Clean Columbia (hereafter, "Riverkeeper") fully support the extensive water conservation practices described in this the Draft Columbia River Water Supply Inventory and Long-Term Water Supply and Demand Forecast Report ("Report"). Riverkeeper believes this analysis is much-needed and long overdue. These comments express Riverkeepers' concerns about the Report.

### **Ecology cannot issue new water rights based on speculative future conservation.**

The Report indicates that future water demand is going to exceed water supply. Therefore, the Report assesses the potential to "create" more water by conservation and storage. This section focuses on the water saved by conservation, which is estimated at over a half million acre feet ("AF") for agriculture alone. Ecology must carefully assess the amount of water actually conserved prior to issuing or expanding water rights on the Columbia River

### **Ecology must prove increased flows before increasing use.**

The report should make clear that Ecology cannot issue additional water rights based on speculative conservation savings. The Report suggests this, but is not explicit. The Report states, "it is very possible that individual conservation projects and water right

applications could be matched such that conservation savings could become a basis for processing certain water rights." The Report should explicitly state that no water rights will be processed until the conservation projects have successfully increased flows in the river. Otherwise, the Report gives the false impression that conservation can cover all the demand.

Demonstrating that conserved water has increased the flow in the Columbia River will be a challenging and time-consuming task. The issuance of water rights must be delayed until the conservation projects have proved successful. The Report correctly recognizes that many of the conservation projects will not cause additional water to accrue in the Columbia River. The Report estimates that the water that will accrue to the Columbia River is 5 – 20% of the water conserved. In addition, the Report correctly recognizes that there is little if any quantitative data behind the estimates of potential water conservation. Therefore, while water conservation holds great promise and should be aggressively pursued and funded, it is imperative that Ecology have quantitative data on the success of conservation prior to issuing more water rights.

In addition, the Report should estimate time-frames for the implementation of conservation projects and provide criteria by which Ecology will demonstrate successful conservation. As it stands, the conservation is quite speculative and should not be used as a definite source to promise future water rights.

#### **New water rights must be conditioned on meeting minimum instream flow**

All new water rights, whether based on conservation or storage, must comply with the instream rights established by WAC 173-563. New rights should be subject to the instream flow regulations and, therefore, must be interruptible. However, the Report states that an objective of the Management Program is to convert interruptible water rights to non-interruptible water rights through mitigation using conserved or stored water. It is unclear how Ecology will obtain this objective. First, all new rights are junior to the instream flows established in 1980 by WAC 173-563. In addition, whether a new water right is based on conserved water has no basis of whether the river's flow is too low enough to harm fish. All new water rights must be subject to the same conditions of WAC 173-563, which curtail water rights when there is very low flow. If flows are under the established limit, this is an indication that the water conservation is not working.

#### **Ecology should make conservation agreements binding**

The Report justifiably focuses a lot of energy on potential water conservation projects by agricultural, municipal, and industrial users. If Ecology relies on the conservation projects, it should establish binding agreements with the water conservers. The water rights that Ecology issues are binding agreements. Without binding agreements on the conservation side, Ecology is setting itself up for trouble. Perhaps Ecology could condition the water rights upon the performance of the conservation agreements.

#### **Ecology must protect fish with minimum flows**

The Report should more clearly explain Ecology's legal duties to protect endangered salmonids. Ecology cannot allow additional withdrawals from the Columbia River unless

minimum instream flows are maintained. Currently, the State is not meeting the minimum flows required by the Biological Opinion ("BiOp"). The Report notes that the flow targets for the Priest Rapids, McNary, and Bonneville dams are not met. The Report does not explain how the new water management program will comply with the BiOp. The inventory and demand section should make clear that the BiOp flows are a top priority before issuing any additional water rights to an already over-allocated river. Ecology should continue to review water rights permits on a case by case basis and only approve if sufficient instream flows for fish and wildlife are maintained.

### **Conservation Projects**

Riverkeeper commends Ecology for its effort to identify conservation projects. The Report's conservation data, however, are so speculative as to be of little use. For example, surveying conservation districts for conservation projects is a good first step, but the legitimacy of the project and the potential costs must be verified. The Report should not rely on these numbers. Likewise, the conservation data from municipalities is highly spotty due to the lack of response. The Report suffers because it presents the number of projects, AF conserved, and cost per AF as precise numbers, even though the values are wild estimates at best. The Report states that the cost and water savings "should be viewed as preliminary and used only to screen or compare projects within the inventory." Even with this caveat, the casual observer will be confused by the seemingly precise values. In addition, it is questionable whether the cost and water saving data are accurate enough to even screen or compare projects.

The conservation projects for agriculture range widely from less than one hundred dollars per AF to over six thousand dollars per AF. The Report should have at least confirmed the possibility of the projects in general and the costs involved. Overall, survey respondents may have overestimated the cost of conservation projects. In addition, perhaps Ecology could offer an incentive or a requirement to encourage broad participation in the studies.

### **Storage Projects**

Riverkeeper opposes new dams in the Columbia River Basin. The Report did not discuss the major environmental and cultural degradation caused by dams. There are 55 major dams on the Columbia today. We are in an era of dam removal, not construction. The Report should clearly assess the long-term and cumulative impact of constructing or enlarging a dam.

The Report should also include the environmental costs in the cost estimate of dam storage. The Report estimated cost of storage at \$640 to \$5000 per AF, with Black Rock dam being the most expensive. The Report does not explain the potential economic impacts of the dam on the commercial and recreational fishing and tourism industries. The cost estimates of storage are likely significantly greater when the true costs are considered.

### **The Report Likely Overestimates Demand**



Despite a great effort, Ecology just does not have the data to accurately predict water demand. Therefore, this Report had to rely on speculative data. For example, regarding the USGS survey of water users, the Report states: The USGS has no control over the quality and accuracy of the data it receives. At present, the accuracy and confidence limits of the estimates are not quantified." The demand is likely overestimated because the water users are likely to overestimate their use and their need in order to error on the safe side. Further, the Report's reliance on unverified water right applications suffers from the same problem: namely, water users are overestimating their need. Therefore, the Report should recognize the likely overestimation and make clear that the need for immediate storage projects may not be great. For example, the greatest water user by far, agriculture, is not expected to grow, according to a study by Washington State University.

In addition, the Report should not assume that growth must occur. The underlying assumption throughout the Report is that the State must find more water to allow agricultural, municipal, and industrial growth. Unfortunately, the reality is that water availability may have to limit growth. The Report's partial recognition that most of the water for growth will need to come from conservation or reuse is encouraging.

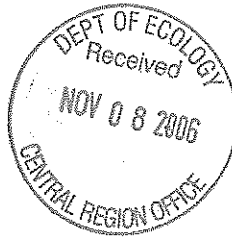
Sincerely,



Brett VandenHeuvel  
on behalf of:

Brent Foster  
Columbia Riverkeeper  
724 Oak Street  
Hood River, OR 97301

Susan Evans  
Citizens for a Clean Columbia  
Wenatchee, WA



November 8, 2006

**COLUMBIA RIVER WATER MANAGEMENT BRIEFING/CONSULTATION**

Mr. Gerry O'Keefe, Columbia River Water Management Coordinator  
Mr. Derek Sandison, WADOE Central Regional Office Manager  
Mr. Tom Tebb, WADOE, CRO, Water Resources Program Manager  
Mr. Dan Haller, Technical Lead, Columbia River Water Management Program

**Subjects:** KID Comments on the Proposed Voluntary Regional Agreement, Programmatic EIS, and Funding Request for New Water Right Engineering; and Project Development per the Columbia River Account

Gentlemen:

As part of Ecology's consultation process, the KID offers formal comments on the Columbia-Snake River Irrigators Association (CSRIA) and Ecology Voluntary Regional Agreement (VRA) for the development of new water rights under the Columbia River Water Management Program.

Our comments reflect the KID's needs and objectives to provide irrigation service to over 20,000 agricultural, residential, and commercial customers, and to meet the apparent demand needs of a growing Quad-Cities area. Irrigation water is an important asset supporting our economy and lifestyle, and it is our intent to sustain and enhance this asset through careful water resources management, and through the acquisition of a new Columbia River water right.

**CSRIA-Ecology Voluntary Regional Agreement (VRA) and Related Actions:**

The KID firmly supports the implementation of the CSRIA-Ecology VRA; this Agreement is an important implementation "tool" that brings into being the 2006 Columbia River Water management legislation. The Columbia River legislation directs the state and water users to embrace collaboratively new water efficiency and management approaches, and to protect current water users and secure new supplies for our communities.

The KID also offers the following recommendations:

- Ecology should move expediently forward with the consultation process for the VRA. The VRA should be signed by CSRIA and Ecology, as soon as statutory and procedural time lines allow.

- The pending KID water right should be one of the initial water rights granted under the new VRA. The proposed water right is highly consistent with the VRA approach and the application of a new water management approach taking advantage of conservation and efficiency improvements, water transfers, and improvements to in-stream flows where measurable impacts can be obtained.
- Via the guidance offered by the draft VRA, Ecology and KID staff should pursue regular consultations throughout the next few months to evaluate technical, legal, and policy components surrounding the issuance of a new Columbia River water right for the KID.
- With the completion of the VRA consultation period, Ecology staff and KID representatives should review how the VRA may be used to accommodate some of the key features of the new KID water right, including:
  - Respect for the existing KID Conditional Final Order (CFO) under the current Yakima River Basin water adjudication; and providing pragmatic and workable efficiency standards for the diverse needs of the District.
  - An ability of KID to improve water efficiency objectives and provide “no negative impacts” to main stem Columbia River flows through internal recalibration of the District’s existing water right—and used in conjunction with a new Columbia River water right.
  - An optimization of the water resources transfer under the new water right, exchanging Yakima River flows for Columbia River water.
  - Mitigation options for the new KID water right.
- With the completion of the VRA consultation period, Ecology and KID staff should jointly prepare a report of examination and record of decision for the issuance of the new KID water right permit.

**The Ecology Programmatic EIS:**

The KID generally supports the proposed action/proposal contained in the Programmatic EIS for implementing the new Columbia River Water Management legislation (and the preferred alternatives/proposed actions therein).

More specifically, we note the following:

- The KID supports the proposal/proposed action for implementing the Columbia River Water Management Program and the early implementation actions, including a Lake Roosevelt drawdown (re-regulation), a supplemental feed route for the Potholes Reservoir, and the Ecology-CSRIA Voluntary Regional Agreement (VRA).

- The KID supports most directly the VRA and its application for the issuance of a new Columbia River water right for the KID.
- The EIS offers a satisfactory level of information to assess adequately the significant or non-significant impacts affecting the proposed actions. The technical information within the EIS is adequate to proceed with the VRA.
- The coverage of the irrigated agriculture impacts within the EIS is more realistically served by the UW review—as it relates to incremental additions of irrigated acreage—than the American Rivers commentary. The UW work also was conducted with a technical review committee, while the American Rivers' work is simply advocacy politics. It would seem to be very self-serving for a group from Texas A&M to downplay new irrigated agriculture in Washington State, while their own state is a market competitor with Washington agricultural products. The real-world conditions in Columbia River agriculture—and within our service area—do not conform to that suggested by American Rivers.
- We are pleased to see that the observations and recommendations of the NAS report are not overstated, as the report contains serious gaps in adequately evaluating available empirical data/studies pertinent to impacts related to new Columbia River water right withdrawals.

**Funding Request Under the New Columbia River Basin Water Supply Development Account:**

As previously conveyed to you, the KID would like to apply for Ecology/state co-funding, for its proposed Columbia River water right review, under the Columbia River Basin Water Supply Development Account. We believe that this work is eligible for co-funding under Section 7(2) of the 2006 Columbia River Water Management legislation, encouraging projects for water exchanges in the Yakima River.

The new (KID) Columbia River water right would allow for:

- Water transfers (change in withdrawal points, water exchanges, and some additional water withdrawals) from the Yakima River to the Columbia River.
- A significant amount of the existing KID service territory, currently served by Yakima River water, to be serviced by Columbia River water, and additional lands in the Red Mt.-W. Richland and South Ridge areas to be serviced with Yakima River water.
- New pump stations placed at Kiona (Yakima River) and at Edison St. (Columbia River); the overall approach is more, smaller withdrawals along the river corridors to service KID.

**Columbia River Water Management Briefing/Consultation**

**November 8, 2006**

**Page 4 of 4**

- Significantly increase flow within the Prosser to mouth of Yakima River Reach (ranging from about 400 to 130 cfs), with a very small decrease to mainstem Columbia River flows (57 cfs as currently envisioned).

**Specifically, co-funding is initially requested for:**

- Appraisal and preconstruction engineering/economics and water right evaluation work for the Edison St. portion (direct water transfer between Yakima and Columbia Rivers) of the proposed project (Columbia River pump station and mainline).

With completion of the project review and the issuance of a new Columbia River water right, co-funding is requested for:

- The construction engineering and capital construction for the Edison St. portion of the proposed project (Columbia River pump station and mainline).

Per our recent discussions, we know that you are in the process of some internal clarification of what types of projects can be funded, and we are aware that the construction engineering and capital funding needs for the KID water right project would not be eligible for state funding until issuance of a water right. However, the project appraisal work now being conducted by the KID appears to be eligible for co-funding.

Please let us know how you wish to proceed with this funding request, and what types of information you require, in addition to the technical reports and information previously provided to you.

The KID management and staff are very pleased with our current interaction and consultations with the Ecology staff, and we are looking forward to soon acquiring a new Columbia River water right to better serve our customers and community.

With my appreciation for your efforts and consideration,



Victor V. Johnson  
District Manager

VVJ/mh

cc: WA State Sens. Erik Poulsen, Mike Hewitt, Jerome Delvin, and Jim Honeyford  
WA State Reps. Kelli Linville, Bruce Chandler, and Dan Newhouse  
Mr. Jay Manning, Director, WADOE  
Mr. Tom Mackay and Dr. Darryll Olsen, CSRIA

# WALLA WALLA COUNTY WATERSHED PLANNING

310 W. Poplar -Suite 201 -Walla Walla, WA 99362-2865

Telephone (509) 524-2648 • FAX (509) 524-2630

November 8, 2006

Dan Haller  
Washington State Department of Ecology  
Central Regional Office  
15 W. Yakima Ave., Suite 200  
Yakima, WA 98902-3452

Subject: Columbia River Legislative Report Comments for WRIA 32 (Walla Walla)

Dear Mr. Haller:

Thank You for the opportunity to comment on the *Water Supply Inventory and Long-Term Water Supply and Demand Forecast*. Please consider the following comments from our review in WRIA 32 (Walla Walla Watershed):

1. Table 3-3 does not provide information for Walla Walla County. Information on Walla Walla County land use/comprehensive planning can be obtained from Walla Walla County Community Development department. Contact Steve Donovan at (509)524-2623 or by email at [sdonovan@co.walla-walla.wa.us](mailto:sdonovan@co.walla-walla.wa.us).
2. Pg 4-13 Section 4.5.4 entitled Aquifer Storage and Recovery (ASR) acknowledges that the City of Walla Walla and the WRIA 32 Watershed Plan have identified ASR as a storage opportunity, but the document does not discuss the fact that the City of Walla Walla is currently using this storage method. The discussion on this promising storage method is inadequate, additional information concerning its use and future opportunities should be incorporated. The City of Walla Walla can provide specific information, Hal Thomas Public Works Director can be reached at (509)527-4463.
3. The WRIA 32 Watershed Plan was completed for the WRIA 32 Planning Area, that is all land that flows into the Columbia River via the Walla Walla River. Department of Ecology's WRIA 32 includes all areas discharging into the east-side of the Columbia River downstream of its confluence of the Snake River until the Columbia becomes the Washington-Oregon border. This is clarified in the watershed plan available at [www.wallawallawatershed.org/wplan](http://www.wallawallawatershed.org/wplan).

4. The United States Army Corps of Engineers/Confederated Tribes of the Umatilla Indian Reservation Feasibility Study was awarded \$400,000 from the Department of Ecology under the The Columbia River Basin Water Management Act (House Bill 2860) in June, 2006. This is not mentioned in the document, nor is the major water storage project that it is studying mentioned either. The USACE/CTUIR Study is only mentioned indirectly in table D-7 where one of the project alternatives under consideration, storage on Pine Creek is found. More information on the project should be included in the final draft as \$400,000 of Columbia River Water Management Funding has already been granted toward its development. Information can be acquired from Rick George, CTUIR at (541)276-3165 or from Chris Hyland, USACOE at (509)527-7264.

Our detailed comments on the accuracy of data included in the report has been foregone as the report discloses the “illustrative” nature of the data, and that the data is only supposed to provide “glimpses” of what better data or forecasting could provide. Acknowledging the time constraints that this significant project work was accomplished under, our specific notation of potential inaccuracies concerning WRIA 32 and Walla Walla County, beyond those mentioned here, would be problematic should the intent be to take action at a local scale based on this report.

I appreciate this opportunity to comment on this document. If you have any questions regarding these comments please contact me at (509)524-2648 or via email at [cschaeffer@co.walla-walla.wa.us](mailto:cschaeffer@co.walla-walla.wa.us). Thank you very much.

Cathy Schaeffer  
Watershed Planning Director  
Walla Walla County



**Attachments:**

Yakama Nation Comments on Inventory Report.doc



Yakama Nation  
Comments on Inve..

-----Original Message-----

From: Tom Ring [mailto:ringt@yakama.com]  
Sent: Thursday, November 09, 2006 1:12 AM  
To: Haller, Daniel R. (ECY)  
Subject: Columbia River Legislative Report Comments

Dear Mr. Haller,

The attached are staff-level comments on the Inventory.  
They do not represent the policy or legal positions of the Yakama Nation.

Philip Rigdon  
Deputy Director, Natural Resources  
Yakama Nation

-----  
This mail sent through IMP: <http://horde.org/imp/>

## Yakama Nation Comments on Water Supply Inventory and Long term Water Supply and Demand Forecast

We note at the outset that we were afforded a two-week review period (extended to three) for this 918 page document, a period that is running concurrently with the review period for the CRWMP DPEIS (387 pages), and the consultation period for the CSRIA VRA. This failure to properly stage these documents causes an undue burden on the interested public and the Yakama Nation. Unlike Ecology, which has been able to add many new staff and hire consultants to produce this work, affected Tribes must review this work with existing resources. Therefore, we wish to make it clear that these comments are an initial attempt to fill in blanks and correct errors in the draft report. Failure to comment on a particular assertion in the report does not constitute concurrence, assent, or acquiescence with that assertion. The Yakama Nation reserves all options and recourse available to it to protect and enhance its rights, resources, and interests.

There is much discussion in the report of interpretations of law by the report writers. We do not agree with a number of these assertions. For instance, Section 4.2.5.1 states that the Municipal Bill clarifies certain things. We believe that the bill changed, rather than clarified existing law. These comments do not address all of these issues, do not constitute a legal position of the Yakama Nation, and we specifically reserve our right to comment and dispute these points as appropriate later.

The report repeatedly makes the point that the Legislature did not allow enough time for a thorough, rigorous, and credible analysis of many aspects of the inventory to be completed. We agree. As of the date of this inventory, we see no proposals either for storage or conservation that are sufficiently well quantified and certain of outcome to allow for new water use out of the Columbia River.

### Executive Summary

ES-4 It is not correct that the Yakima Storage Study is "under the auspices of the (Columbia river) Management Program". The Yakima Storage study, which was supported by the Yakama Nation, began years before the Columbia River Bill passed and is proceeding under entirely different statutory authority. It is not clear what the authors mean by the "Yakima Pump Exchange Study", but if the reference is to the Kennewick Pump Exchange study, that is being performed under the auspices of the federal Yakima River Basin Water Enhancement Project.

ES-6 The report discusses the Yakima Storage Study alternatives interchangeably with the Columbia River four storage options. The report should clarify that the purposes being contemplated in the Yakima Basin Storage Study are improving instream flow and out of stream supply in the Yakima Basin, not the Columbia.

ES-9 The discussion on river management neglects the role of the Treaty Reserved water rights held by the Columbia River Treaty Tribes necessary for the continued exercise of their Treaty fishing rights. These rights have a Time Immemorial priority date and, therefore, are the senior water rights on the river and must be satisfied before any existing or possible future water rights.

ES-10 A water right application is not a "demand", it is a request, and is subject to a number of tests including water availability, impairment, and public interest. The existence of an application does not convey a water right or create an obligation to issue a water right.

ES-10 The Executive Summary does not make it clear where the conservation possibilities are located. This has a great bearing on whether any conserved water would be available to mitigate for new Columbia River water rights. For example, water conserved under the Yakima River Basin Water Enhancement Project is used to stabilize irrigation supply and increase instream flow in the Yakima basin, where existing water rights are not always met and must take priority over issuance of new water rights elsewhere.

In addition, water conserved through irrigation system improvements reduces return flows that may be already in use by downstream users, instream and out. Conservation in this case would not likely create any usable supply for Columbia River applicants.

Until the threshold questions of consumptive versus non-consumptive conservation and within-tributary-basin commitments are answered, the assertion that large amounts of new water will be made available for Columbia River applicants appears to be based on blind faith.

ES-12 Presumably "reclaimed water" would come from return flows from treatment plants or other discharges of non-consumptively used water that are already in the river. The report needs to explain how such reclaimed water could be used for new consumptive use "without new demands on the river".

ES-13 The forecasts do not account for the conversion of agricultural land to residential or for the amount of domestic demand accommodated by this conversion. Such conversion is occurring in a large way and accounts for much of the residential growth in parts of the Columbia Basin.

ES-15 Those senior right holders who were excluded from the drafting of the Columbia River Bill (and they all were) might be surprised to find out that the "spirit of the legislation" includes collaboration.

ES-16 The reference to "tribal fisheries partners" shortchanges Indian people. Indian Tribes have the same range of economic and health and welfare interests as non-Indian governments in addition to holding Treaty Rights for a fishery-based economy. How would a reference to "our non-Indian potato partners" go over?

ES-17 The reference to geology within the one-mile corridor implies that only aquifer storage projects within one mile of the river would be eligible. This is probably a mis-interpretation of the legislation, but it is hard to know.

ix Def of interruptible. Doesn't the law require curtailment. The definition makes it sound discretionary. Same problem in 3.3.1.

xi Standard definition of non-consumptive is not consumptive, i.e. use does not result in loss of water to atmosphere through evapotranspiration.

xii Permit-exempt well. The definition offered is based on an opinion by the AG's office and is contrary to long-standing Ecology interpretation, is disagreed with by many entities, and has not been tested in court.

xii Priority date definition omits federally reserved and treaty rights. The priority date for treaty rights is either the date of creation of the reservation (date of Treaty) or Time Immemorial for traditional uses such as instream flow to support Tribal fisheries.

xiv What is the authority for stating that additional water for the CBP is uninteruptible. Is it a pre-1980 water right? If so, why the separate category in the definition?

1-1 It is telling that the report's rendition of history begins with Lewis and Clark and makes no mention whatsoever of the people, cultures and Columbia River based economy that existed in the region for several hundred generations before Lewis and Clark dined on salmon as their guests.

1-1 Fish and Wildlife Habitat shrank disastrously as a result of dam building. Entire runs were eliminated. Access to much of the best habitat in the Columbia River basin is still blocked by dams. The only mainstem habitat remaining productive is the Hanford Reach, which was spared by the dam builders only because it had nuclear reactors on its banks. The investments described in this section barely scratch the surface of what can and should be done to repair the damage. This is a very slanted piece of writing. It is certainly not an honest "inventory".

1.1.4 Def of interruptible. Doesn't the law require curtailment. The definition makes it sound discretionary.

Blaming the consultation rule for the backlog of water right applications is revisionist history.

1.2.1 Fish are an economic need of people. The legislative language is discriminatory in favoring non-Indian out of stream economies while ignoring Tribal economies.

1.2.2.2 Is the Trust Water Program intended as a water bank for future irrigation entitlements?

Only a portion of the Odessa subarea is in the CBP. The document should clarify that using CBP saved water on Odessa lands outside the CBP would be a violation of federal law.

Figure 2-1 The map appears to omit the area in the southwestern corner of the Yakama Reservation known as Tract D. After being erroneously left off reservation maps for some decades, Tract D was formally restored to the reservation by Executive Order of the President of the United States in the 1970's. Ecology should update its maps.

3.3.1 The mainstem Snake is not under adjudication in Washington, but in Idaho. Clarify.

3.3.3.2 This section should clarify that only a portion of the Odessa Subarea is within the CBP. The section misleads the reader to believe that the entire Subarea was opened to groundwater pumping in anticipation of CBP water bailing the area out before the aquifers were mined out. Leaving aside the question of whether those within the CBP had a reasonable expectation, those outside did not. The report should clarify the limits on the proposed actions to bring water to Odessa. In addition, faulty well drilling has been known to be a problem in the Odessa for decades. Cascading multi-aquifer wells exacerbate the problems and are illegal under Washington law. Any legitimate assessment of the problems in Odessa should address this.

3.4 This section should be more clear. The Tribes ceded lands to the United States and that which was not ceded was retained by the Tribes. Specifically the Tribes retained hunting and fishing rights on the ceded lands. The U.S. Supreme Court has recognized the great importance that the Tribes placed on these reserved rights during Treaty negotiations.

3.4.1 This section is misleading. The last paragraph on 3-12 should be broken into two after the word fisheries. The next paragraph should explain that these reserved rights on ceded land pertain to off-reservation lands, as opposed to on-reservation rights with the priority date of the establishment of the reservation. Particularly deceptive is the last sentence stating that "Tribes believe" that their fishing rights equal water rights. To be fair, the document must point out that the Yakima basin adjudication court and the Washington State Supreme Court also "believe" that such water rights exist and have assigned them a priority date of Time Immemorial (not the date of establishment of the reservation), making them the senior water right in any watershed where they occur.

3.4.2.1 Last paragraph. Explain which court confirmed that fish and wildlife was a project purpose.

Table 3.6 Should clarify that the Snake River is not under adjudication in Washington.

4.2.6 Should clarify that a switch from a treatment plant that discharges to a river to a reclaimed water plant does not actually create "new water" that is available for new uses.

4.7.4 There is an internal contradiction here. Echoing the AG's opinion, the description states that there is no limit on exempt stock water use, which seems to suggest that a single cow could fully appropriate the Columbia River, and there is more than one cow in the basin. Likewise the opinion is offered that there is no gallons per day limit on exempt irrigation. Later in the section the statement is made for calculation purposes that exempt wells are limited to 5000 gpd. It cannot be both ways.

4.5.2 Most or all of the storage discussed in WRIA plans was intended to provide water supply for the tributary basin in which the planning was done, not to provide water for new Columbia River water rights. Citing these storage concepts in a "Columbia River inventory" is misleading.

Table 4.9 The storage for Kittitas County appears to be too high, unless it includes Columbia River mainstem storage.

Figure 4-8 If this figure purports to include all water use including surface water irrigation applications, then the figure for Kittitas County is hugely understated.

5.2.7 The section omits a crucial consideration. Conservation opportunities within tributary watersheds are being compared to "demands" in the Columbia River. Where these "savings" are non-consumptive in nature, the conservation would not be expected to provide any water to the Columbia, a fact the report attempts to make. However, even with consumptive savings, there is a high likelihood that saved water would be committed to other uses in the watershed rather than credited to the Columbia River. This may be particularly true, where the conservation is within a federal Reclamation project, like the Yakima Project, where saved water would likely be used to stabilize irrigation supply for proratable irrigators and augment inadequate instream flows, or retained in storage for these purposes. The report should be revised to correct this deficiency.

5.2.8 This section makes the same critical omission as the previous. New storage contemplated in a tributary may make no water whatsoever available for new Columbia River permits if it is intended to resolve supply issues in the tributary. Comparing aggregate storage opportunities in the tributaries to water right applications in the mainstem Columbia is a fatal flaw in the report's reasoning.

5.3.4 Consideration 2. This section also carries forward the problem mentioned above by considering that future demand for Columbia River water can be met by conservation in the tributaries. The report really should separate out tributary basin conservation potential from the potential to conserve water from Columbia River mainstem diversions.

5.5.1 This section reads like self-promotion, both for the Program and consultant. It seems to have nothing to do with the Columbia River Bill and should, perhaps, be deleted.

There are Yakama Nation Trust Lands that are entitled to, but are not yet receiving water from the Columbia River. These waters should be included in any demand inventory.



## CHAPTER 3: COLUMBIA RIVER BASELINE ASSESSMENT

### 3.1 Introduction

This Chapter describes the physical and institutional aspects of the Columbia River system. It provides baseline data necessary to address water allocation and protection of instream flows as part of a sustainable water management program in the Columbia Basin from the Washington-Canada border to Bonneville Dam.

Much of the relevant water resources information about the Columbia River is compiled and reported at different physical and socio-political scales (e.g., by state, County, WRIA, tributary, river reach, service area, irrigation district, and other). This report attempts to compile and present information at a common scale, where water use and availability is comparable and consistent. A County scale was selected as the most common management unit for available water-related data. Much of the available information is presented by County, and in some cases, can be presented for the one-mile zone around the Columbia River (by County). The one-mile zone around the Columbia River is called the Management Zone in this report. WRIA reaches that divide the Management Zone by WRIA boundaries are a secondary management unit. Pool reaches (the reach of the river between two dams) are a third management unit. Figure 3-1 shows how these management units overlies each other.

Although the legislation authorizes a “one-mile” Management Zone, this baseline assessment addresses water resources within all the

watersheds that contribute flow to the Columbia in Washington State. Activities that occur in tributary watersheds will influence flows in the Columbia River, some more directly and with less of a time lag, than others.

#### 3.1.1 Columbia River

The Columbia River drains 219,000 square miles in seven western states (including parts of Montana, Idaho, Washington, Oregon, Wyoming, Utah and Nevada) and 39,500 square miles in British Columbia, Canada (Volkman, 1997). The Columbia River originates on the west slope of British Columbia’s Rocky Mountains and flows 1,214 miles to the Pacific Ocean. The basin covers approximately 67% (47,878 square miles) of Washington. Slightly less than 750 miles of the 1,214 mile length of the Columbia River flow through the state with about 600 miles in the study area. The major tributaries in the United States are the Kootenai, the Flathead/Pend Oreille, the Snake, and the Willamette Rivers. Many more large rivers to small streams flow into the Columbia River on its way to the Pacific Ocean.

The Columbia River and its tributaries are the predominant river system in the Pacific Northwest and the fourth largest in the United States with respect to discharge. The mean annual flow of the Columbia River at the mouth (measured at The Dalles) is approximately 190,000 cubic feet per second (cfs), of which, approximately 40% originates in Canada. During a low water year, the Columbia River’s annual discharge at The Dalles is about 120,000

cubic feet per second (cfs) and rises to 260,000 cfs in a high water year (Ecology, 2006a). The river flow nearly doubles between the international boundary and The Dalles, mainly due to the inflow of the Snake River, which is the largest of the Columbia River tributaries, comprising approximately 44% of the total mean annual flow of the Columbia River. Oregon tributaries (the Willamette and Deschutes Rivers) also contribute a significant amount of discharge to the Columbia.

Estimates of average and minimum annual water supply from the Columbia River at Priest Rapids and Bonneville Dams, based on BPA's Hyd-Sim model are:

- Priest Rapids: Average annual volume of 86,100,000 AF. Annual minimum volume of 60,467,000 AF.
- Bonneville Dam: Average annual volume of 135,355,000 AF. Annual minimum volume of 90,518,000 AF.

Using the mainstem Columbia River at Priest Rapids volumes listed above, an out-of-stream current use estimate of 3,500,000 AF (which excludes the Yakima Basin), and available flow volume estimates from BPA's Hyd-Sim model of 20,938,000 AF average and 938,000 AF minimum which account for BiOp flow objectives (Reclamation, 2006d), the following supply and demand comparisons can be made:

- Current out-of-stream demands use about 4% to 6% of the Columbia River supply.
- Instream demands (as represented by BiOp flows) use between 76% (average) and 98% (dry) of the Columbia River supply.

These comparisons do not account for the variability in supply and demand throughout the year.

### **3.1.2 Columbia River Tributaries**

There are 30 major tributaries to the Columbia River with mean annual flows of greater than 400 acre-feet (AF) per day. Figure 3-2 shows some of the major tributaries and their mean annual flows. Table 3-1 summarizes the 30 major tributaries by river mile, including contributing drainage area and mean annual discharge. Drainage areas and mean annual flows were obtained from USGS gages on the corresponding tributaries nearest to the mouth.

The Pend Oreille and Spokane Rivers provide the largest annual tributary contributions to flow on the Columbia in the upper reach between Canada and Grand Coulee Dam. These two tributaries provide over 30,000 cfs of flow to the Columbia on a mean annual basis.

Tributaries to the Columbia River between the Okanogan River and the Snake River contribute a total of approximately 14,000 cfs. The Okanogan, Wenatchee, and Yakima Rivers combine to contribute about 60% of the inflow in this segment of the Columbia. The Snake River is the Columbia's largest tributary, and provides approximately 54,000 cfs. Below the Snake River downstream to Bonneville Dam (lower reach) mean annual tributary inflow totals approximately 14,000 cfs of which 63% of the flow is generated in Oregon. The Columbia River's discharge increases at a fairly steady rate of 2,000 – 3,000 cfs between dam pools in the

reach from Bridgeport (below the Grand Coulee Dam) to Priest Rapids.

### 3.2 Physical Factors Affecting the Columbia River

Annual and seasonal flows in the Columbia River are shaped by many factors. This section presents a general overview of six important factors: climate, reservoirs and hydropower, navigation, land cover and land use, agriculture, and population.

#### 3.2.1 Climate

The precipitation that falls in the Columbia River Basin generates runoff that, in turn, becomes streamflow in the Columbia River. Most precipitation occurs in the winter with the largest share falling in the mountains as snow. The moisture that is stored in the snowpack is released in the spring and early summer, providing about 60 percent of the natural runoff to the Columbia River during May, June, and July (Ecology and WDFW, 2004; USGS, 2002). The Columbia River drains from a snowmelt dominated watershed. Such a basin typically exhibits two runoff peaks, a smaller one occurring in late autumn in response to increased precipitation as rain (not evident in some arid regions), followed by a trough as rain changes to snow, and then another larger peak occurring in late spring and early summer due to melting of mountain snowpack.

The summer months, from approximately June through August, are often critical because precipitation is low and streamflow is naturally decreasing due to diminishing snowpack. Water temperatures also increase during the summer

due to increasing air temperatures and lower flows. It is during these critical months, in part, that instream flow rules are designated so that the river may accommodate its competing uses.



Research of the impacts of climate change on water resources in the Pacific Northwest indicates that predictions of increased temperature and precipitation over the next 50 years may result in reduced snow packs, earlier snowmelt, increased flood potential, and lower summer flows.

Climate change is becoming an increasingly important component of water demand and supply forecasting. While the topic is subject to debate, a number of scientific assessments have concluded that the Earth's average temperature will likely increase during the twenty-first century (Hamlet et al., 2001). Climate models used in these assessments predict that both temperature and precipitation will significantly increase in the Pacific Northwest over the next 50 years. The potential consequences to water resources in the Pacific Northwest associated with warmer temperatures, greater precipitation, and a shift in winter precipitation type from snow to rain include reduced snow packs, higher winter streamflows and accompanying increased flood potential, earlier snowmelt-generated peak flows, and lower summer flows (Hamlet et al., 2001). During the last 100 years, the sub-basins of Washington have seen the median of the

seasonal runoff shift earlier in time by 1 to 16 days and a 3% to 25% shift of spring-summer seasonal flows to the autumn-winter season (Dittmer, 2005). Similarly, rivers fed by glacial melt waters may be adversely affected by climate change. Pronounced reductions in the area covered by glaciers can result in significant reductions in the amount of water released to downstream rivers (Environment Canada, 2000; Ecology, 2006b).

### **3.2.2 Reservoirs and Hydropower**

The construction and operation of the Columbia River dam and reservoir system has significantly affected the hydrograph of the Columbia River. Fifty-five major dams have been constructed by federal agencies, PUD's, and British Columbia agencies on the Columbia River and its tributaries. Hundreds of smaller impoundments have also been developed. Hydropower projects on the Columbia River mainstem and other storage developments in its tributaries within the entire basin have a total active storage capacity in excess of 46 million acre-feet; one-third of the mean annual flow of the Columbia River at The Dalles, Oregon (Ecology and WDFW, 2004). Figure 3-3 shows the locations of the major hydropower dams in the Columbia River Basin.

Although most of the River's development has been in the United States, there are three dams on the Columbia River in Canada. They were built as part of the Columbia River Treaty, initially signed in 1961 and ratified in 1964. As a result of this treaty, the Duncan Dam (maximum storage 1.38 MAF), the Hugh Keenleyside Dam (maximum storage 7.1 MAF), and the Mica Dam (maximum storage 12 MAF)

were constructed. Combined, these reservoirs hold approximately 20.5 MAF of storage, primarily for hydropower and flood control uses.

The seasonality in streamflow on the Columbia River has been "flattened" to some degree as a result of reservoir storage. The original high spring/summer flows have decreased and the low autumn/winter flows have increased. However, the Columbia River still has very large seasonal and annual variations in streamflow. Figure 3-4 illustrates average monthly Columbia River flows in an average (2003) and dry water year (2001) at three locations: downstream of Priest Rapids Dam, downstream of McNary Dam, and downstream of Bonneville Dam.

The Columbia River is highly managed for hydropower generation. The Bureau of Reclamation has developed a model (MMS System) to simulate the Federal Columbia River Power System (FCRPS) which is widely accepted as accurately simulating current operation of the Columbia River system. The power industry uses the "Hyd-Sim" model to understand flow availability in the system and to balance power supply reliability with adequate resource protection (Reclamation, 2006d). Hyd-Sim uses the current FCRPS system operating requirements for each project and historic hydrologic flow conditions. It contains a data set of runoff to determine impacts to various resources and obligations (such as irrigation, flood control, power, instream flow, other contract obligations, project authorizations, and biological opinions). The hydrologic data used to determine "normal" and "dry" years and to

evaluating operating scenarios is relatively old (Reclamation, 2006d).

The Bureau of Reclamation has recently used output data from BPA's Hyd-Sim for the FCRPS to determine the quantity of water available for diversion for the CBP. This work included an estimate of the volume of water available in the system in excess of biological flow objectives (Reclamation, 2006d). Although the analysis considers BiOp flow objectives, it did not incorporate other potential demands on flow (Reclamation, 2006d). The BPA model simulates coordinated system reservoir operation on a monthly basis given a reservoir operating capacity. Hyd-Sim is an effective tool for analyzing the reservoir system operation under a range of project inflows and a given operating policy.

Resource adequacy is an important aspect of energy management, and is undergoing current analysis throughout the country. The Energy Policy Act of 2005 may result in mandatory implementation of resource adequacy standards established at the regional level through the North American Electric Reliability Council (NERC). The Pacific Northwest Resource Adequacy Forum (PNRAF, 2005) initiated discussions in June 2005 on this issue, with the intent of developing resource adequacy metrics and targets appropriate for the northwest.

Hydropower operations are a key component of the analysis. Issues such as out-of-region surplus electrical capacity and the "critical water" standard for the hydropower system are key aspects of setting resource adequacy targets. While no final recommendations have been made by PNRAF, it is possible that hydropower

management objectives and preferences could change in the future.

Managing the river for hydropower generation is different than managing the system for water allocation. However, these tools will only be useful for other management purposes (e.g., water supply and allocation) if reliability concepts used in hydropower management can be integrated into an assessment of consumptive water supply reliability. This will require a collaborative effort between hydropower interests, Ecology, and other stakeholders.

### **3.2.3 Navigation**

Navigation needs on the Columbia and Snake Rivers are met by natural streamflow and normal operating procedures of reservoir releases and minimum reservoir depths (FCRPS, 2001). The Columbia and Snake Rivers are separated into two segments.

1. The first segment, from the Pacific Ocean to Vancouver, Washington, only requires the natural streamflow and periodic dredging to satisfy navigation requirements (FCRPS, 2001).
2. The navigation needs of the second segment, from Vancouver, Washington to Lewiston, Idaho, are met by the Corps' reservoir operating procedures that incorporate the navigation requirements in establishing maximum and minimum reservoir levels (FCRPS, 2001).

### **3.2.4 Land Cover and Land Use**

The Columbia Basin covers approximately 67% of Washington State and exhibits a wide range of land cover classification types. Figure 3-5 shows the various types of land cover as classified by the USGS using 1992 satellite

imagery. Individual acreages associated with each land cover type are summarized in Table 3-2, by County. Appendix B has a table with the acreages by WRIA. Approximately 26% of the total land area in the Columbia Basin (excluding water, barren lands, natural vegetation, and wetlands) has been modified from natural conditions in some way, and is either agriculture, residential, urban, or commercial-industrial. Most (95%) of this modified land is classified as either irrigated or non-irrigated agriculture, with the remaining 5% classified as residential, urban and commercial industrial. All of these land classification types have associated water use, including forested lands, wetlands, and other “natural” land covers. The degree to which these lands are managed in relation to water resources varies, but water supply in the Columbia River is linked to various levels of land use management that occur in the basin.

Land use differs from land cover in that it is linked to County planning and zoning. Land use represents what the land could be used for, not what is currently occurring on the land. Table 3-3 summarizes land use data for counties in the Management Zone. The data were extracted from a parcel database by Ecology, and grouped into residential, agricultural, undeveloped, and other uses for each County (Ecology, pers. comm., 2006d). Information was not available for Ferry, Skamania, or Walla Walla Counties within the Management Zone. The parcel database indicates that, within the Management Zone, the primary land use type is residential. Agriculture land-use types are the smallest within the Management Zone.

### **3.2.5 Agriculture**

Agriculture has historically been the primary economic driver in the Columbia Basin, and continues to play a significant role in the economy of Washington State. Agriculture accounts for one-fifth of the state’s annual gross product (Trade Development Alliance of Greater Seattle, 2006). The Columbia River Basin’s water is used to irrigate over 65 million acres or 37% of the total cropland in the basin.

Agriculture accounts for over 93% of the daily water used in the basin. Farmers grow potatoes, sugar beets, hops, fruit, vegetables, mint, wine grapes, hay, grain and more. Agriculture and related services account for roughly 10% of the basin’s employment (National Research Council, 2004).

### **3.2.6 Population**

Population continues to increase throughout Washington, including areas “east of the mountains” within the Columbia Basin. The Washington State Office of Financial Management (OFM) population estimate for 2006 based on data from Census 2000 indicates a total population of 1.4 million people for Counties in the Columbia Basin (Table 3-4 and Figure 3-6), representing 22% of the population in Washington State (OFM, 2006). The OFM estimated annual growth rate between 2000 and 2006 is also presented. An average growth rate of 1.83% is estimated. If this growth were to be sustained, population would increase to 1.9 million in 20 years, and would double in about 50 years. In some Counties, such as Benton, Franklin, Grant, Kittitas, Adams, Chelan, Douglas, Stevens, and Yakima, growth

is occurring more rapidly than the basin-wide average, and population could double in about 30 years if those growth rates were sustained.

The OFM predicts that the predominantly rural nature of Eastern Washington is not expected to change as rural counties do not have the economic base to support or attract large numbers of people. However, tourists, retirees, and recreationists are increasingly drawn to Eastern Washington, and economies associated with this population continue to thrive.

### **3.3 State Institutional Factors Affecting the Columbia River**

Many state laws and programs influence the ability to use water in the Columbia River and its tributaries. In recent years, Washington State has enacted and implemented new laws and programs addressing a range of water resource-related issues, such as water resource planning, conservancy boards, trust water rights, instream flows, metering, and reclaimed water. Many of these laws and programs directly or indirectly affect the management of the Columbia Basin as authorized under ESSHB 2860.

Key state laws regarding the regulation of surface and ground water, water rights, water quality, well development, and minimum water flows are summarized in Table 3-5 and described below.

#### **3.3.1 Water Rights and Instream Flow Rules**

Water rights and instream flow rules are the most significant state-managed institutional factors affecting water supply. Water rights are

a legal entitlement to beneficially use waters of the state. Beneficial use under a water right from the Columbia River or one of its tributaries may be consumptive (e.g. evapotranspiration) or may return water to the river (e.g. return flows). Water rights to ground water that would otherwise discharge to the Columbia River also represent a potentially irretrievable source of water to the river. Water rights are discussed in detail in Chapter 4.

Instream flow rules are considered a water right for the stream, with a priority date of the effective date of the rule. Therefore, any permits issued by Ecology subsequent to the adoption of an instream flow rule must be conditioned to protect the minimum flows. Water rights granted subsequent to an instream flow rule are considered “interruptible” during periods when the stream is not meeting the instream flow levels specified in the rule. Setting an instream flow does not “guarantee” that the flows set by rule will be met every year, even if interruptible rights are curtailed. In relation to the Columbia River and its tributaries, instream flow rules provide a means for Ecology to require reductions in water use during periods of low streamflow. However, there is no guarantee that reductions in use will result in reaching a flow target. Flow targets are also set in the federal Biological Opinion (BiOp). See Section 4-2 for more detail on BiOp flow targets. A water right is not subject to interruption based upon BiOp flows, although such flows are considered when Ecology is considering issuing a new water right. Instream flow rules and flow targets are an important portion of the water management regime on the



river and do have an effect on the amount of water in the river at a given place and time.

Prior to 1980, there were no instream flows set for the Columbia River. Ecology established minimum instream flows for the mainstem Columbia River in 1980 as part of its Instream Resources Protection Program (IRPP) (Table 3-6). Domestic and municipal rights were exempt from the rule. Ecology amended the rule in 1998 and provided that all water right applications filed after July 27, 1997 would be subject to evaluation for impacts on fish as well as existing water rights. The mainstem Snake River is currently under adjudication in Idaho and the instream flow rule (WAC 173-564) expired on July 1, 1999.

The Columbia River mainstem instream flow rule is subordinate to senior water rights and any water withdrawal at the request of the Bureau of Reclamation for the complete development of the Columbia Basin Project (RCW 90.40.030, RCW 90.40.100). The instream flow rights on the Columbia are also subordinate to any federal agency or tribal reserved water right established before 1980. Thus, this collection of various rights (existing pre-1980 rights, pre-1980 reserved water rights, and additional water withdrawn for the Columbia Basin Project) are essentially senior to the instream flow right.

Water rights issued subsequent to the 1980 rule (interruptible rights) can be curtailed in low flow conditions in order to maintain adequate flows for fish. Low flow conditions occur when the March 1 forecast for April through September runoff at The Dalles Dam is less than 60 million acre-feet. Therefore, users with interruptible

water rights do not have guaranteed water in low flow years (Ecology, 2006b). One of the objectives of the Management Program as specified in ESSHB 2860 is to convert interruptible water rights to non-interruptible rights through mitigation using conserved water or storage water.

Washington State has adopted instream flow rules at nine locations along the mainstem Columbia River (Table 3-6). Figure 3-7 shows how discharge at Priest Rapids Dam, McNary Dam, and Bonneville Dam in 2001 and 2003 compares with the state instream flow rules:

- A year-round state instream flow rule exists at Priest Rapids, with a minimum instantaneous flow of 50,000 cfs, except during September and early October when flows must exceed 36,000 cfs. In water year 2001, which was a year of low discharge, state instream flows were not met in late October, in May, and in July. Instream flows were met throughout the average year of 2003.
- Year-round state instream flow rules at McNary Dam vary from 20,000 cfs in the winter to 70,000 cfs during the late spring. Columbia River discharge at McNary consistently meets the instream flow rules during both average and dry years.
- No state instream flow control point exists at Bonneville Dam.

Instream flows are also set for many of the major tributaries to the mainstem Columbia. Table 3-7 shows existing and proposed flow rules for the Colville, Okanogan, Foster, Methow, Entiat, Wenatchee, and Walla Walla Rivers. The flow requirements represent flows at the control point nearest the confluence with the Columbia. Some stream systems, such as



the Methow and Wenatchee Rivers have multiple instream flow control points in the upper reaches of the tributary, or in smaller creeks or streams feeding the major tributary.

### **3.3.2 Watershed Planning (RCW 90.82)**

The Watershed Planning Act (RCW 90.82) provides an opportunity for local entities to participate in watershed planning for each Water Resource Inventory Area (WRIA). Local watershed planning groups consist of representatives from County, city, tribal and state governments, as well as local stakeholders including developers, farmers, water purveyors, environmental groups, and local citizens.

Ecology is obligated, subject to various conditions and shared responsibilities, to implement programs proposed in approved watershed plans. This essentially provides local stakeholders a means to take an active part in water management in their watersheds. The Columbia River itself is not a WRIA, but the effects of watershed planning in its tributaries can affect flows in the Columbia River. Not all tributary basins to the Columbia River have undertaken watershed planning, and many that have are still in various stages of the process. Until all watershed plans are approved and implementation has begun, it is not clear how they will affect flows in the Columbia River. Table 3-8 and Figure 3-8 indicate the status of watershed planning in the Columbia Basin. Chapter 4 contains inventory information taken from available documents prepared by the WRIA Planning Units.

### **3.3.3 Other Ecology Rules and Programs**

#### **3.3.3.1 Metering WAC 173-173**

Metering is a tool for water management and does not, in and of itself, affect flows in the Columbia River. However, better information on water withdrawals and return flows will support improved analysis in future water supply and demand forecasts. Water measuring also allows planners and water managers to better understand seasonal and annual variations in demand and can identify what causes variations in water use. Measuring can also provide a good understanding of the efficiency of water conveyance and on-farm water delivery systems.

The requirements for measuring and reporting water use are defined in Chapter 173-173 WAC. This rule "...seeks to ensure the reliable, accurate measurement of state water that is diverted, withdrawn, stored and used so that sound decisions may be made in administering state water laws and regulations" with the specific goals of quantifying available water, enforcing water right compliance, protecting instream resources and making informed decisions regarding state water management. This rule affects all surface water rights and any ground water rights where the withdrawal of water may affect surface water bodies with depressed or critical salmonid stock.

#### **3.3.3.2 Odessa Subarea (173-128A and 130A)**

The Odessa Ground Water Management Subarea (Odessa Subarea) (Figure 3-9) is an important agricultural region of the Columbia Basin that relies on irrigation water currently provided by

ground water wells that are experiencing significant declines. As part of the Columbia Basin Water Management Program early actions, additional water stored in Lake Roosevelt is proposed to be delivered to the Odessa Subarea to replace some ground water withdrawals and decrease the rate of ground water decline. Flow in the Columbia River is therefore directly (through Roosevelt drawdown) and indirectly (through general agricultural importance) related to activities in the Odessa Subarea.

Ecology began permitting irrigation wells in the area in the 1960s and 1970s in anticipation of the completion of the Columbia Basin Project (CBP), though only a portion of the Odessa Subarea is within the CBP. Irrigators were advised that this source would not be permanent, but anticipated that the CBP would continue to be developed, eventually replacing ground water with surface water. Steady declines in ground water levels prompted Ecology to designate approximately 2,000 square miles under the eastern-most portion of the authorized CBP, east of the East Low Canal as a ground water management subarea in 1988 (Reclamation, 2006b; WAC 173-128A and 130A; Ecology, 2006b). The cause of the declining groundwater levels is related to the amount of pumping from the deep basalt aquifer, and may also be related to the way in which some wells have been completed over the years, allowing interconnections between various water-bearing zones in the aquifer.

The purpose of establishing the Odessa Ground Water Management Subarea (Odessa Subarea) was to "...provide a procedure for managing

ground water within the Odessa ground water subarea to insure the maintenance of a safe sustaining yield from the ground water body within a reasonable and feasible pumping lift" (WAC 173-130A-040).

Constraints on water use in the Odessa Subarea are based on controlling the rate of decline in the water level, establishing a maximum lowering of the water table level, regulating withdrawal of ground water to protect senior water right holders, limiting new water users and limiting the location where new wells may be drilled. As water levels continue to decline, irrigators have begun to look for other water sources, including water from the Columbia River (Reclamation, 2006b).

The declining aquifer is not only of concern to irrigators, but also municipalities in the Odessa Subarea which rely on the aquifer for municipal and industrial water supply (Reclamation, 2006b; Ecology, 2006b). The Bureau of Reclamation is investigating the possibility of continuing development of the Columbia Basin Project to deliver project water to lands currently using ground water in the Odessa Subarea (Reclamation, 2006b). The Bureau of Reclamation anticipates the Odessa Special Area Study will take five years, beginning in 2006, and will conclude with a planning report and the appropriate National Environmental Policy Act documents. The Bureau of Reclamation has posted the Plan of Study and the Initial

Alternative Development and Evaluation reports on its website.<sup>1</sup>

### **3.3.3.3 Aquifer Storage and Recovery (ASR) (WAC 173-157)**

Aquifer storage and recovery (ASR) is a water storage technique that uses underground aquifers as storage reservoirs. ASR is permitted by Ecology under WAC 173-157 and provides an opportunity for utilizing underground storage, provided certain technical conditions are met. Use of ASR water could affect Columbia River flows. When water that is artificially recharged to an aquifer is recovered for further use, this special application of artificial recharge is called ASR. Water may be introduced into permeable geological formations by infiltration from the ground surface, or direct injection using wells. Water may be stored for a period of weeks, months or longer, and then recovered for potable or other uses.

ASR is being used throughout the world with facilities operating in many different environments, including Oregon, California, Nevada, Utah, Texas, Arizona, New Mexico, Florida, and New Jersey. The Salem Heights wellfield for the City of Salem, Oregon is the only fully permitted and operational ASR system in the Pacific Northwest. Seattle Public Utilities has operated the Highline Wellfield for a number of years in an extended testing mode. The Cities of Yakima, Pendleton, Kennewick, and Walla Walla are involved in a number of promising feasibility and pilot projects. Basalt

aquifers, which are prevalent throughout the Columbia Basin, are good candidate aquifers for ASR from a geologic standpoint.

A series of technical water supply issues must be adequately satisfied for ASR to be feasible. These include: legal source of water, adequate infrastructure, suitable receiving aquifer, good water quality, and a demand profile that can take advantage of the stored water.

ASR can be used for different purposes and can be optimally configured for each purpose. In general there are three primary purposes for which ASR can be considered:

1. To seasonally shift sources of water supply from direct surface or ground water withdrawal to ASR during critical low flow periods. Here, ASR provides the direct replacement for potable water supply;
2. To improve or divert poor quality ground water from higher quality ground water near pumping wells; and,
3. To enhance river flows either by withdrawal of stored water and discharge to streams, or by leakage from the aquifer in which water is stored.

The main regulatory and permitting issues to consider for ASR strategies relate to water rights, well construction (Ch. 173-160 WAC), water quality (Ch. 173-200 WAC) and Underground Injection Control rules (Ch. 173-218 WAC).

### **3.3.4 Other State Agency Programs**

In addition to Ecology's role in the management of water resources, other agency actions or

---

<sup>1</sup>  
[http://www.usbr.gov/pn/programs/ucao\\_misc/odessa/index.html](http://www.usbr.gov/pn/programs/ucao_misc/odessa/index.html)

responsibilities can affect water quantity, quality and instream flow. These agencies include:

- Washington State Department of Health (DOH), which manages programs or components of programs involving water protection, wastewater, water conservation, aquaculture and water quality for recreation and consumption.
- Washington Department of Fish and Wildlife (WDFW), which manages fish, shellfish and wildlife species and their habitats. Programs include the regulation of hatcheries, habitat protection and restoration, harvest regulations, data and population management and enforcement.
- Washington State Conservation Commission (WSCC), which exists to assist and guide conservation districts and manages multiple conservation programs, two of which (Conservation Reserve Enhancement Program (CREP) and the Irrigation Efficiencies Program) may affect irrigated agriculture or water demands in the Columbia River Basin.

Additional information about the roles, responsibilities, and programs provided by these agencies is provided in Appendix B.

### 3.4 Other Institutional Factors Affecting the Columbia River

Washington State Department of Ecology's authority to manage Columbia River streamflows is affected by the jurisdiction and authority of federal, Tribal and international governments. Laws and agreements that have a bearing on federal operations of the Columbia River system include:

- Enabling legislation for federal projects that proscribe certain operations, such as irrigation, flood control, navigation, and hydropower.

- Endangered Species Act (ESA): A federal law that protects threatened and endangered species of plants and animals. They include several species of fish that live in or migrate through the Columbia and Snake Rivers. Biological Opinions (BiOp) have been prepared for the Federal Columbia River Power System (FCRPS) that provide requirements for the federal agencies to operate the river to comply with the Endangered Species Act (ESA).
- Fish and Wildlife Coordination Act: A federal law that requires FCRPS to mitigate the impacts of its dams on fish and wildlife.
- Clean Water Act (CWA): A federal law that requires Section 401 CWA certifications for FERC-licensed hydro projects.
- National Environmental Policy Act (NEPA): A federal law that requires environmental review of actions proposed by federal agencies.
- Columbia River Treaty: An agreement between United States and Canada regarding flood control and power production on the Columbia River.
- Pacific Northwest Coordination Agreement: An agreement between federal project operators and hydroelectric generating utilities of the Northwest that calls for annual planning that must accommodate all authorized purposes of Columbia River projects.
- Columbia Storage Power Exchange and Canadian Entitlement Allocation Agreements: Agreements between utilities to divide power benefits and obligations.
- Non-Treaty Storage Agreement: An agreement between Bonneville Power Administration and BC Hydro to increase the amount of storage water covered by agreement from 2 million ac-ft to 4.5 million ac-ft. BPA and BC Hydro equally share the power generating benefits from this storage. This agreement expired in 2003.

- Tribal Treaties and Executive Orders: Agreements between sovereign tribal nations and the United States Government in the cession of land originally in 1855. The U.S. Government is obligated to provide services that protect and enhance Indian lands and resources, which includes the need to maintain harvestable stocks of anadromous fish.
- Pacific Northwest Electric Power Planning and Conservation Act of 1980: Passed by Congress that created an eight-member council (2 members each from Washington, Idaho, Oregon, and Montana) to adopt a Fish and Wildlife Program for the Columbia Basin. The Fish and Wildlife Program contains a number of goals for restoring and protecting fish populations while encouraging an energy conservation program.

### 3.4.1 Tribal Governments

There are seven tribes that are Columbia River Treaty Tribes, are participating in the Columbia/Snake River Total Maximum Daily Load (TMDL) Study and/or have reservation land in the Washington portion of the Columbia River Basin upstream of Bonneville Dam. These Tribes have reservation lands in excess of 3.7 million acres in the Columbia Basin (Table 3-9). Tribes are active participants in water management, both directly and indirectly. Many Tribes directly manage water through water management rules or regulations for their tribally managed lands. Tribal water management interests extend significantly into other natural resource areas such as fisheries. Tribes may also set and manage water quality standards on reservations under the Clean Water Act when delegated by the Environmental Protection Agency.

Tribes ceded land to the United States through negotiated treaties and, after 1871 Congressional legislation changing the process, through executive orders. Tribes have implied water rights based on the water necessary to effectuate the purposes of their reservations. These reserved rights vest as of the date of the establishment of the reservation or treaty and are not lost if unused on land held by the tribe or its members. Tribal water rights have been partially adjudicated on the Yakama Reservation, the Colville Reservation, and the Spokane Reservation. In these cases, reservation purpose has included irrigation and fisheries. While ceding title to land under treaty, tribes reserved certain rights including the right to hunt and fish in usual and accustomed places (U&A's). These are rights that were held by the tribe before treaty time and reserved through treaty provisions. Hunting and gathering rights, not yet defined by federal courts, are not limited by the drainage basins and may not exactly correspond to the U and A's associated with fishing rights. Tribes assert that the treaty reserved right to fish carries with it the implied right to have water in off-reservation streams sufficient to ensure the survival of harvestable numbers of fish.

Of the seven tribes, the Confederated Tribes and Bands of the Yakama Indian Nation, Confederated Tribes of the Umatilla Indian Reservation, Confederated Tribes of the Warm Springs Reservation of Oregon and the Nez Perce Tribe have rights to anadromous fish in the Columbia River from the 1855 treaties with the United States.

### 3.4.2 Federal Authority

Federal agencies own and operate many of the dams on the Columbia River and its major tributaries, especially the large water storage reservoirs. The federal agencies are subject to a variety of environmental regulations which affect how the Columbia River Basin dams and reservoirs are operated and maintained. Other dams on the Columbia River and its major tributaries are operated by PUDs, private power companies, B.C. Hydro, and other entities. Operation of these dams and reservoirs is highly coordinated to maximize the multiple beneficial uses they provide. The power operations of the Columbia River dams are coordinated through the Pacific Northwest Coordination Agreement.

1. The Corps operates 12 of the 14 major federally-owned dam and reservoir projects in the Columbia River Basin. The Corps is responsible for flood control operations at all reservoirs in the basin both in the U.S. and Canada. It shares responsibility with BPA and B.C. Hydro in determining how the Columbia River treaty reservoirs will be operated. The Corps has also constructed and maintains all navigation channels to accommodate barges and other river traffic (FCRPS, 2001).
2. The Bureau of Reclamation operates Grand Coulee and Hungry Horse Dams, the other two major federal water storage projects in the Columbia River Basin. It also operates the major irrigation projects in the basin: the Columbia Basin Project and the Yakima Project.
3. The BPA markets wholesale electrical power generated from the 31 federal hydro projects in the Columbia Basin and one non-federal nuclear power plant and owns, operates, and markets transmission services in the Pacific Northwest from its high voltage transmission system. BPA is a self-

financed agency which pays for its costs through power and transmission sales. The Northwest Power Planning and Conservation Act directs BPA to fund and implement measures to protect, mitigate, and enhance fish and wildlife affected by the development and operation of any federal hydroelectric project on the Columbia River and its tributaries.

Operation of the FCRPS is also subject to many operational requirements which are set by the BiOp and other agreements. Hydro operations for the protection of endangered and threatened species include the following:

#### **Minimum Operating Pool (MOP)**

The Minimum Operating Pool (MOP) is the minimum elevation that a reservoir behind a dam can be at and still be able to operate for navigation. The purpose of the MOP operation is to reduce juvenile salmonid travel time through the reservoirs. The lower Snake River Dams—Lower Granite, Ice Harbor, Lower Goose, and Lower Monumental—operate at MOP from approximately April 3 through the end of August.

In addition, the John Day Reservoir is operated at the Minimum Irrigation Pool (MIP) from April 10 to September 30. MIP is the lowest pool elevation at which it is still possible for irrigators to reach the reservoir. Operating at MIP reduces juvenile salmonid travel time through the reservoir.

#### **Bonneville Tailwater Flows to Protect Chum**

From approximately the beginning of November to the middle of April, Bonneville is operated

with a minimum tailwater elevation of 11.3 feet. Between 7 AM and 9 PM the tailwater elevation fluctuates only between 11.3 feet and 11.7 feet. By operating Bonneville to these tailwater elevations, the chum habitat is kept watered during spawning and the redds are kept underwater.

### **Flow Augmentation**

Operation of Columbia River dams is also subject to flow targets set by Biological Opinions (BiOp) to protect endangered and threatened species. Storage from Grande Coulee, Hungry Horse, Libby, Dworshak, and other storage projects are used to augment flows for migrating salmonids during the spring and summer. Flow targets have been recommended at the Bonneville, McNary, and Priest Rapids Dams through the federal BiOp (NMFS, 2004). Table 3-10 summarizes the BiOp targets. Figure 3-7 shows how discharge at Priest Rapids Dam, McNary Dam, and Bonneville Dam in 2001 and 2003 compares with the recommended BiOp flows:

- **Priest Rapids Dam:** Recommended BiOp flow targets are generally not currently met. BiOp flows at Priest Rapids are 135,000 cfs from mid-April through June and were not met in either 2001(dry year) or 2003 (normal year).
- **McNary Dam:** BiOp flow targets extend from mid-April through August and range from 220,000 to 260,000 cfs. Recommended BiOp flow targets are generally not currently met.
- **Bonneville Dam:** The recommended BiOp target ranges from 125,000 to 160,000 cfs from November through the period of salmonid species emergence. Columbia River flows in 2001 (dry year) were

approximately 70% of the BiOp target on average, although the end date of the target is unique for each year. Flows in 2003 (average year) did not meet this target from November through March by an average of 71%.

### **Spill**

All of the federal projects with fish passage on the Snake and Columbia Rivers spill water to provide passage for out migrating juvenile salmonids. Water that is spilled over the dam is not used to generate electricity. The level and duration of spill varies at each project.

### **1% Efficiency**

During the salmonid out migration Bonneville, The Dalles, John Day, McNary, Ice Harbor, Lower Monumental, Little Goose, and Lower Granite operate their turbines within 1% of peak efficiency. When the dams are operated at 1% of peak efficiency a smooth flow is created through the turbines. This benefits fish that pass the dams through the power house. Often this is also beneficial for power because the generators are being operated at their near optimal level of efficiency. However, it occasionally restricts a more preferable operation that allows a higher volume of water to pass through the turbines to generate more electricity (albeit at a lower level of efficiency).

### **Other Operations**

The federal agencies also perform reservoir operations to benefit many other species such as: sturgeon, bull trout, kokanee, and other ESA-listed and non-ESA-listed fish and wildlife.

As part of the Hanford Agreement, BPA, the Washington Department of Fish and Wildlife, and the Mid-Columbia utilities manage flow levels below Priest Rapids Dam to ensure that Fall Chinook salmon spawn at an elevation which allows the redds to remain underwater during fluctuations in flow.

Currently, a new BIOP is being developed by the Federal action agencies, the Columbia River Tribes, and the States. See Table 3-11 for more detail on FCRPS operations for fish.

### **3.4.2.1 Columbia Basin Project**

The Columbia Basin Project (CBP), operated by the Bureau of Reclamation, is an important project for the Columbia Basin Management Program because it involves a significant diversion of water that is not used solely for hydropower and therefore does not stay in the Columbia River. The CBP is a congressionally authorized multipurpose development located in the central part of Washington State. The key structure, Grand Coulee Dam, is on the mainstem of the Columbia River about 90 miles west of Spokane, Washington. The extensive irrigation works extend southward on the Columbia Plateau 125 miles to the vicinity of Pasco, Washington, where the Snake and Columbia Rivers join.

The Columbia Basin Project was begun with the allocation of funds for Grand Coulee Dam pursuant to the National Industrial Recovery Act of June 16, 1933. The project was specifically authorized for construction by the Rivers and Harbors Act approved August 30, 1935 (49 Stat. 1028, 1039-1040, Public Law 74-409). The

Columbia Basin Project Act of March 10, 1943 (57 Stat. 14, Public Law 78-8), reauthorized the project, bringing it under the provisions of the Reclamation Project Act of 1939.

The authorized purposes are the control of floods, improvement of navigation, regulation of streamflow, storage, and delivery of stored water for reclamation of lands, and other beneficial uses, and the generation of electric energy. Storage and delivery of water for municipal and industrial purposes is a beneficial use and a project purpose.

In the 1970s, the court confirmed that fish and wildlife was also a project purpose pursuant to the Fish and Wildlife Coordination Act of August 12, 1958 (72 Stat. 563, Public Law 85-624).

### **3.4.3 *International Agreements***

There are four international treaties that define the water rights relationship between Canada and the state of Washington (Table 3-12).

#### **3.4.3.1 Boundary Waters Treaty of 1909**

The Boundary Waters Treaty ratified in 1909 created the bilateral International Joint Commission (IJC) to address water rights disputes between Canada and the United States. Under the terms of the Treaty, if additional Columbia River water was to be diverted by Canada, a downstream water user in Washington could contest that diversion before the IJC with the same standing as a Canadian citizen (National Research Council, 2004; Ecology, 2006b).



However, the principles of jurisdiction and control over water in the Treaty are somewhat contradictory and any protest would have to work its way through the IJC, which is a slow process. “Canada likely has an unquantified but, for purposes of prior appropriation in Washington, a senior claim based [upon] its equitable interest in the river. Additional U.S. water diversions in the Columbia River may remain subject to additional Canadian development, the latter of which would be entitled to priority. [However,] this [discussion] does not consider any water-related claims of indigenous people north of the forty-ninth parallel” that might exist and be determined valid (National Research Council, 2004, p. 73).

#### **3.4.3.2 Columbia River Treaty of 1961**

The Columbia River Treaty was signed in 1961 and approved by Canada in 1964. The Treaty has no termination date. The Treaty allows either Canada or the U.S. the option to terminate the Treaty in 2024 with a 10 years advance notice. If neither party chooses termination, the Treaty can continue into perpetuity without any changes. The Treaty provided for the construction of four upper Columbia River storage dams—three in Canada and one in Montana. The dams provide flood control and increased hydropower generation benefits in both Canada and the United States.

Under the Treaty, Canada has rights to divert up to 1.5 million acre-feet per year from the Kootenay River into the headwaters of the Columbia River. For 40 years after the Treaty expires, until 2064, Canada can divert an unspecified quantity of water from the Kootenay

River into the Columbia as long as the flow of the Kootenay at the border is 2,500 cubic feet per second (cfs) or the natural flow. Canada pledged in the Treaty not to divert water in such a way that the flow crossing the boundary is altered. This does not include consumptive uses or the option for Canada to divert the Kootenay into the Columbia. Canada did promise not to divert the Columbia water out of the basin (i.e. into the Fraser River or to eastern provinces) (National Research Council, 2004).

#### **3.4.3.3 Pacific Salmon Treat**

The Pacific Salmon Treaty was ratified in 1985 by Canada and the United States. The Treaty provides for a four-person delegation for each country that will cooperate in the management, research, and enhancement of Pacific salmon stocks.

In Attachment E of Annex 4 to the Treaty, the parties pledge “[t]o use their best efforts, consistent with applicable law, to: (a) protect and restore habitat so as to promote safe passage of adult and juvenile salmon and achieve high levels of natural production, (b) maintain and, as needed, improve safe passage of salmon to and from their natal streams, and (c) maintain adequate water quality and quantity” (Pacific Salmon Treaty, 1985, p. 95). The Pacific Salmon Treaty focuses on salmon harvest limits, not regulating the quantity of water in the Columbia River (National Research Council, 2004).

### **3.4.3.4 Lake Roosevelt-Columbia River Treaty and Tributary Systems**

“This agreement delineates cooperation and coordination on water quality discharges and large consumptive use withdrawals above 10 cubic feet per second on the Columbia River or tributary systems to the Columbia River that affect both Washington and Canada. Most of this agreement is focused on waste discharges in Canada and not water allocation. However, consultation was initiated in July 2002 surrounding the Cascade Power Project on the Kettle River in Canada. Agency staff from Washington and Canada inspected the proposed hydro-power site and discussed water policy issues and implications. The Cascade Power Project is a river power plant, non-consumptive and should not come under the agreement. Canada decided to consult with Washington anyway due to cross border water issues” (Ecology, 2003).

### **3.4.4 Interstate Agreements**

Washington has signed two water allocation agreements with its border states, Idaho and Oregon. Each agreement is fairly limited in scope and represents cooperative efforts rather than allocation of water between the two states. Both agreements do not limit the states from allocating water but merely share information on which decisions can be made (Ecology, 2003).

#### **3.4.4.1 Oregon**

Washington has a Memorandum of Agreement (MOA) with Oregon regarding the delivery of water from certain interstate streams in Oregon to Washington in the Walla Walla Basin.

Washington and Oregon signed this agreement in 1992 as part of a stipulation before the U.S. Supreme Court. The MOA outlines the process and procedure for Watermasters of the two states to use in delivering water from Oregon to Washington for certain interstate streams.

The Columbia River Compact provides authority to adopt seasons and rules for Columbia River commercial fisheries. The Oregon and Washington agency directors, or their delegates, acting on behalf of the Oregon Fish and Wildlife Commission (OFWC) and the Washington Fish and Wildlife Commission (WFWC) administer the Compact. In addition, Columbia River treaty tribes have authority to regulate treaty Indian fisheries (National Research Council, 2004; Ecology, 2006b).

#### **3.4.4.2 Idaho**

There is an agreement between the Department of Ecology and Idaho Department of Water Resources on the coordinated management of the Pullman-Moscow aquifer. Signed in April 1992, the agreement outlines coordination measures between the two states and the Pullman-Moscow Water Resources Committee. The states agreed to share information about new requests for water rights within the zone of influence of the aquifer. Washington and Idaho also began discussing aquifer management options for the Spokane-Rathdrum Prairie Aquifer in April 2002 (Ecology, 2003).

### 3.5 Monitoring and Forecasting on the Columbia River

#### 3.5.1 Stream Gages and Reservoir Levels

An extensive network of stream gages exists along the Columbia River and its tributaries. For a majority of the stream gages, data are collected on a real-time basis. Table 3-13 presents a list of stream gages on the mainstem Columbia River while Table 3-14 presents a list of stream gages on major tributaries to the Columbia River. The stream gages shown include only the gages that are located nearest to the Columbia River. The agency with primary responsibility to maintain the stream gages and publish data is the United States Geological Survey (USGS). Other agencies may provide funding assistance to the USGS to operate the gages but the USGS publishes the data. The other agency which collects and publishes data on the mainstem Columbia River is Environment Canada for data collected in British Columbia, Canada.

Many additional stream gages are present within the tributaries to the Columbia River. The USGS operates additional gages in the tributaries. A list of those gages and data can be obtained at <http://waterdata.usgs.gov/wa/nwis/current?type=sitelist>. The Bureau of Reclamation operates a network of automated hydrologic and meteorologic monitoring stations on rivers and reservoirs located throughout the Pacific Northwest. This network is called “Hydromet”. Within Washington State, the Hydromet network collects and publishes data for the Yakima Project within the Yakima River Basin.

The data available through Hydromet can be viewed at <http://www.usbr.gov/pn/hydromet/>.

Ecology operates a network of stream gages in the tributaries, for which information can be viewed at [http://www.ecy.wa.gov/programs/eap/flow/shu\\_main.html](http://www.ecy.wa.gov/programs/eap/flow/shu_main.html). Other smaller networks of gages are also present, such as gages installed for Watershed Planning Units or other agencies and private parties. The information for the tributaries was not included in this report as we focused on flow data for the Columbia River and data recorded at the mouth of major tributaries.

#### 3.5.2 Irrigation Demand

Real-time data on crop irrigation water demands are available through two public websites operated by the Bureau of Reclamation (AgriMet) and Washington State University Public Agricultural Weather System (PAWS).

- AgriMet is a Bureau of Reclamation program that started in 1983. It consists of a network of 72 automatic agricultural weather stations located throughout the Pacific Northwest. Real-time data is transmitted from stations every 1-4 hours to the Bureau of Reclamation’s receiver site in Boise, Idaho. The information is then processed and made available to the public through the Bureau of Reclamation website <http://www.usbr.gov/pn/agrimet/>. Data collected differs depending on the specific site. All 72 sites collect air temperature, precipitation, dew point, relative humidity, wind direction, and wind speed. Other parameters collected by sites include solar radiation, soil temperature, pan evaporation, crop canopy temperature, barometric pressure, and leaf wetness. AgriMet uses weather data collected to estimate evapotranspiration (crop water use) for

crops grown in the area of the weather station. Specific crop evapotranspiration rates are calculated based on the reference crop alfalfa. AgriMet crop water use charts are updated daily on its website.

- The Public Agricultural Weather System (PAWS) is a weather forecast system from Washington State University created to assist growers in management decisions. The PAWS network consists of 59 weather stations with the majority in the irrigated areas of Eastern Washington. These stations collect parameters such as air temperature, wind speed and direction, relative humidity, leaf wetness, soil temperature, soil moisture, solar radiation, and rainfall, and they provide near real-time data. Data are collected every 10 seconds, averaged every 15 minutes (for 15 minute files) and every 60 minutes (for hourly files), and transmitted to data collection stations every hour. Subscribers can log on to the website to download data. Information and reports from PAWS are used to promote a scientific method of irrigation scheduling from evapotranspiration rate, protect and warn against frost, model pests, and diseases, and provide daily values of water usage in crops. Growers can use the information from PAWS in combination with the Washington Irrigation Scheduling Expert (WISE) to better manage irrigation scheduling. Data can be obtained through the PAWS website <http://www.paws2.wsu.edu/>.

### 3.5.3 Runoff Forecasts

Several agencies are involved in producing climate and streamflow predictions for the Columbia River Basin. Forecasts of climate range from short term daily weather forecasts to long-term predictions over several months based on changing large-scale climate patterns. Forecasts of water supply and streamflow typically include short-term predictions over days or weeks and long-term predictions over

several months such as for a crop growing season. Agencies are able to use climate, water supply, and streamflow forecasts to make their own predictions such as for reservoir pool elevations, municipal water supply, or salmonid survival. The following sections describe the most broadly used forecasting products, including streamflow and water supply forecasts published by the Natural Resources Conservation Service (NRCS), National Oceanic and Atmospheric Administration's (NOAA) River Forecast Center, the Bureau of Reclamation, and the University of Washington. Table 3-15 presents a list of various forecasting activities, including those which involve the use of NRCS or NOAA forecasts for other applications. In addition, Ecology's website (<http://www.ecy.wa.gov/programs/wr/ws/wtrsupply.html>) provides links to specific types of information available from different agencies on climate, water supply, and streamflow forecasting relevant to water management in the Columbia River Basin (Table 3-16).

#### 3.5.3.1 Natural Resources Conservation Service (NRCS)

The primary water supply forecast in the Columbia River Basin is published by the NRCS in the publication "Water Supply Outlook for the Western United States" which is available at <http://www.wa.nrcs.usda.gov/snow/watersupply/>. The information available includes:

- Monthly forecasts of seasonal water supply that are published from January to June for major tributaries to the Columbia River and the upper Columbia River upstream of Grand Coulee Dam. The forecast periods begin at the prepared forecast month and run to June and September;

- Five levels of forecasts with percent chance of exceedance ranging from 10% to 90%; and,
- Non-forecast information such as:
  - Precipitation maps
  - Snow cover maps
  - Mountain snowpack maps
  - Reservoir storage graphics

NRCS water supply forecasts are published in cooperation with the NOAA River Forecast Centers. Together, the NRCS and the Northwest River Forecast Center publish forecasts for 111 locations within the Columbia River Basin.

### **3.5.3.2 Northwest River Forecast Center (NWRFC)**

Water supply and streamflow forecasts are available from the NWRFC, a division of NOAA at <http://www.nwrfc.noaa.gov/nwrfc/info.cgi>. NWRFC uses the National Weather Service River Forecast System (NWSRFS) to simulate soil, snow, stream, channel, and reservoir conditions. Streamflow forecasts are made for 0-14 days for a wide network of stream gage locations throughout the Columbia River Basin and 14-120 days for a smaller, although still extensive, group of stream gages. Forecasts of seasonal water supply are prepared monthly from January to June. Forecasts are published in cooperation with the NRCS.

### **3.5.3.3 Bureau of Reclamation Forecasts**

The Bureau of Reclamation prepares forecasts of water supply available for Yakima Project water users. The forecast is named Total Water Supply Available (TWSA). TWSA represents the combined quantity of unregulated flow,

return flow, and stored water available for use in the Yakima Project. The TWSA represents the estimated water supply available for the period of April through September at the Sunnyside Diversion Dam on the Yakima River. The forecast of TWSA is used to determine the adequacy of water supply to meet entitlements and since 1995 the forecast of TWSA is used to determine the magnitude of target flows over Sunnyside and Prosser Diversion Dams. The forecasts are prepared by the Bureau of Reclamation beginning each March and continuing through the irrigation season.

### **3.5.3.4 University of Washington**

Experimental, real-time seasonal forecasts of western United States hydrologic conditions are available through the University of Washington's West-Wide Seasonal Streamflow Forecasting Project. The forecasts are updated monthly for river basins in the west including the Columbia River Basin. Among the products provided are:

- monthly streamflow forecast ensembles for 15 locations in the Columbia River basin and 20 locations in the Snake River Basin corresponding with USGS gage locations;
- spatial distributions of forecasted snow water equivalent, soil moisture and runoff; and
- forecasts of spatially-distributed snow water equivalent and soil moisture conditions.

The streamflow forecasts, spatial plots of hydrologic conditions (current and forecasted conditions), forecast data, and other information are available at

<http://www.hydro.washington.edu/forecast>.

## **TABLES**

**Table 3-1. Major Tributaries of the Washington Portion of the Columbia River<sup>1,2,3</sup>**

Tributary	Columbia River Mile	Drainage Area (sq. mi.)	Mean Annual Flow (cfs)	Percent of Total Tributary Flow
Pend Oreille River	735.1	24,900	26,266	15.4%
Kettle River	706.4	3,800	2,924	1.7%
Colville River	661.0	1,007	306	0.2%
Spokane River	638.9	4,290	6,689	3.9%
Sanpoil River	615.0	880	217	0.1%
Okanogan River	533.5	8,080	3,042	1.8%
Methow River	523.9	1,772	1,522	0.9%
Chelan River	503.3	924	2,042	1.2%
Entiat River	483.7	419	471	0.3%
Wenatchee River	468.4	1,301	3,231	1.9%
Crab Creek	410.8	4,842	201	0.1%
Yakima River	335.2	5,615	3,493	2.0%
Snake River	324.2	108,500	54,835	32.1%
Walla Walla River	314.6	1,657	568	0.3%
Umatilla River (OR)	289.0	2,290	555	0.3%
John Day River (OR)	218.0	7,580	1,258	0.7%
Deschutes River (OR)	204.1	10,500	5,767	3.4%
Klickitat River	180.4	1,297	1,572	0.9%
Hood River (OR)	169.4	329	1,099	0.6%
White Salmon River	168.3	386	1,115	0.7%
Little White Salmon River	162.0	134	547	0.3%
Wind River	154.5	225	1,199	0.7%
Washougal River	120.7	108	873	0.5%
Sandy River (OR)	120.5	436	2,259	1.3%
Willamette River (OR)	101.5	11,200	32,835	19.2%
Lewis River	87.0	731	4,762	2.8%
Kalama River	73.1	198	1,263	0.7%
Cowlitz River	68.0	2,238	9,092	5.3%
Elochoman River	39.1	66	375	0.2%
Grays River	20.8	60	527	0.3%

**NOTES**

Abbreviations: sq. mi.: square miles; cfs: cubic feet per second.

<sup>1</sup> Based on available U.S. Geological Survey (USGS) data for gages closest to Columbia River mainstem.

<sup>2</sup> The list of major tributaries of the Columbia River was obtained from Ecology and WDFW (2004).

<sup>3</sup> The USGS publishes a spatial data set that contains information about surface water features (the National Hydrography Dataset, or NHD). The most recent dataset, NHDPlus, contains mean annual flow and drainage area information for all NHD designated reaches of rivers and streams. Although the dataset has not yet been developed in all regions, it does exist for the Columbia River Basin. Sometimes large discrepancies in the mean annual flow between the NHDPlus dataset and USGS gage data (likely due to the use of naturalized flows in the NHDPlus dataset) prevented the use of the dataset in this inventory.

**Table 3-2.** Columbia Basin Land Cover Characteristics by County<sup>1</sup> (USGS, 1999)

County	Irrigated Agriculture (acres)		Non-Irrigated Ag. <sup>3</sup> (acres)	Low Intensity Residential (acres)	High Intensity Residential (acres)	Commercial/Industrial/Transportation (acres)	Natural Vegetation <sup>4</sup> (acres)	Wetland <sup>5</sup> (acres)	Barren <sup>6</sup> (acres)	Water <sup>7</sup> (acres)
	Orchard/Vineyard	Other Ag. <sup>2</sup>								
Adams	0	104,925	582,404	2,265	14	14,612	524,447	2,073	191	4,204
Asotin	0	489	83,245	3,631	0	1,347	314,557	46	2,572	4,086
Benton	7,359	130,562	295,024	23,520	151	16,731	612,876	319	670	39,029
Chelan	30,330	1,462	267	5,458	86	4,506	1,678,780	1,705	129,124	64,668
Columbia	0	4,917	194,697	720	0	1,585	350,795	20	2,660	3,777
Douglas	18,377	2,422	398,025	3,414	16	6,229	733,312	162	810	20,363
Ferry	10	17,333	4,573	1,580	0	2,052	1,293,161	827	86,553	38,457
Franklin	0	258,058	171,851	7,416	113	11,780	342,284	1,453	139	16,509
Garfield	0	3,026	171,925	523	0	820	269,426	19	9,116	4,849
Grant	15,824	310,304	422,126	11,552	46	25,698	903,957	9,542	1,496	85,872
Kittitas	2,391	61,009	32,911	4,381	22	9,235	1,264,253	1,170	90,526	27,306
Klickitat	3,413	34,565	118,238	2,948	1	5,392	995,154	914	35,479	22,710
Lincoln	1	17,286	761,122	2,089	0	12,680	677,358	4,772	504	21,261
Okanogan	40,322	64,035	8,736	3,441	3	11,885	3,134,586	2,505	92,887	42,103
Pend Oreille	2	28,023	23	2,230	0	2,358	796,720	1,566	61,576	19,920
Skamania	344	3,727	0	759	0	1,506	877,216	1,237	172,835	21,215
Spokane	4,712	81,466	366,727	49,917	568	26,705	570,989	4,222	21,414	14,651
Stevens <sup>8</sup>	22	90,517	35,202	8,029	0	4,911	1,351,866	2,067	89,624	41,929
Walla Walla	10,099	77,452	410,064	8,999	50	6,405	299,287	122	269	18,500
Whitman	0	6,743	1,067,787	4,735	85	10,123	289,646	801	105	13,647
Yakima	84,791	129,649	211,838	27,348	382	18,069	2,177,727	4,808	81,833	22,904
<b>Totals</b>	1,645,967		5,336,785	174,955	1,537	194,629	19,458,397	40,350	880,383	547,960

See notes on next page.

Table 3-2



## NOTES

Abbreviations: Ag: Agriculture

<sup>1</sup> Information based on the Washington Land Cover Dataset (USGS, 1999) that used 1992 land cover data.

<sup>2</sup> Includes pasture/hay, row crops and urban/recreational grasses land cover categories.

<sup>3</sup> Includes small grains and fallow land cover categories.

<sup>4</sup> Includes deciduous forest, evergreen forest, mixed forest, shrubland and grasslands/herbaceous land cover categories.

<sup>5</sup> Includes woody wetlands and emergent herbaceous wetlands land cover categories.

<sup>6</sup> Includes bare rock/sand/clay, quarries/strip mines/gravel pits and transitional land cover categories.

<sup>7</sup> Includes open water and perennial ice/snow land cover categories.

<sup>8</sup> Stevens County has an additional 32.91 acres that does not have any land cover data and are not included in this table.

**Table 3-3. Land Use in the Management Zone<sup>1</sup>**

County	Residential (acres)	Agricultural (acres)	Undeveloped (acres)	Other (acres)	Total Acreage in Management Zone
Benton <sup>2</sup>	4,100	25,713	2,797	51,447	84,057
Chelan	9,051	24,094	17,550	44,658	95,353
Douglas	4,688	51,324	11,813	1,830	69,655
Franklin	3,539	53,798	16,431	2,200	75,968
Grant	3,571	13,091	55,842	3,040	75,544
Kittitas	141	2,052	775	53,844	56,812
Klickitat	3,170	50,116	21,590	12,617	87,493
Lincoln	598	24,174	0	144	24,916
Okanogan	1,194	42,526	4,117	54,998	102,835
Stevens	5,480	4,416	8,641	139,848	158,385
Yakima	38	2,302	18	16,123	18,481
<b>Totals</b>	35,570	293,606	139,574	380,749	849,499

**NOTES**

<sup>1</sup> The Management Zone is defined as the area encompassing one-mile on either side of the Columbia River. Ferry, Skamania and Walla Walla Counties did not have any available land use information. Data provided by Ecology from its parcel database: Washington State Department of Ecology (Ecology). personal communication. 2006. Land Use Info. September 7, 2006.

<sup>2</sup> Benton County includes land use information for the cities of Kennewick and Richland.

**Table 3-4. Population Summary<sup>1</sup>**

County	2000 Census <sup>1</sup>	2006 OFM Estimate <sup>1</sup>	Average Annual Growth Rate
Adams	15,400	17,300	1.96%
Asotin	19,600	21,100	1.24%
Benton	131,000	160,600	3.45%
Chelan	61,300	70,100	2.26%
Columbia	4,200	4,100	-0.40%
Douglas	30,400	35,700	2.71%
Ferry	7,200	7,500	0.68%
Franklin	43,700	64,200	6.62%
Garfield	2,400	2,400	0.00%
Grant	66,400	80,600	3.28%
Kittitas	30,800	37,400	3.29%
Klickitat	18,700	19,800	0.96%
Lincoln	9,800	10,200	0.67%
Okanogan	37,500	39,800	1.00%
Pend Oreille	11,100	12,300	1.73%
Skamania	9,800	10,600	1.32%
Spokane	406,500	443,800	1.47%
Stevens	36,600	42,100	2.36%
Walla Walla	53,400	57,900	1.36%
Whitman	41,000	42,800	0.72%
Yakima	207,600	231,800	1.85%
<b>Total</b>	<b>1,244,400</b>	<b>1,412,100</b>	<b>1.83%<sup>2</sup></b>

**NOTES**

<sup>1</sup> Source: Office of Financial Management, Forecasting Division. File: gmacountychange.xls From: [www.ofm.wa.gov](http://www.ofm.wa.gov) (accessed 9/06) Modified June 29, 2006.

<sup>2</sup> Represents average annual growth rate for all counties listed in the table.

**Table 3-5. Key Washington and Federal Water Regulations**

Regulation Source	Subject Area	Code
Washington <sup>1</sup>	Administration and Regulation of Surface and Ground Water Codes	Chapter 508-12 WAC
		Chapter 90.03 RCW
		Chapter 90.44 RCW
Washington <sup>1</sup>	Appropriation Procedures	Chapter 508-12 WAC
		Chapter 90.03 RCW
Washington <sup>1</sup>	Beneficial Use	Chapter 90.14 RCW
		Chapter 90.54 RCW
		Chapter 90.44 RCW
Washington <sup>1</sup>	Construction of Water Wells and Driller Licensing	Chapter 173-160 WAC
		Chapter 173-162 WAC
		Chapter 18.104 RCW
Washington <sup>1</sup>	Fundamentals of Water Resources	Chapter 90.54.020 RCW
Washington <sup>1</sup>	Minimum Water Flows and Levels	Chapter 90.22 RCW
		Chapter 90.54 RCW
Washington <sup>1</sup>	Unauthorized Use of Water	Chapter 90.03.010 RCW
		Chapter 90.44.110 RCW
Washington <sup>1</sup>	Water Right Relinquishment	Chapter 90.14.130 RCW
Washington <sup>1</sup>	Water Rights Transfer or Change	Chapter 90.03.380 RCW
		RCW 90.44.100
		RCW 90.44.105
Washington	Water Resource Management	RCW 90.42
Washington <sup>1</sup>	Water Pollution Control Act	Chapter 90.48 RCW
Federal <sup>2</sup>	Clean Water Act	Title 33 Chapter 26
Federal <sup>2</sup>	Marine Protection, Research, and Sanctuaries Act Title 1	Title 33 Chapter 27
Federal <sup>2</sup>	Safe Drinking Water Act	Title 42 Chapter 6A Subchapter XII

**NOTES**

<sup>1</sup> Washington State Department of Ecology. 2006c. Washington State Water Law, A Primer. Publication #WR 98-152 Revised July 2006.

<sup>2</sup> United States Environmental Protection Agency. <http://www.epa.gov/water/laws.html> (Accessed 9/06).

**Table 3-6.** Mainstem Columbia River and Snake River Instream Flow Requirements

Date	<b>WAC 173-563: Columbia River<sup>1</sup></b> Effective: June 24, 1980 (revised 1997) Expiration: None (Minimum $Q_i$ in kcfs)							Snake River is under Adjudication in Idaho
	Chief Joseph	Wells & Rocky Reach	Rock Island & Wanapum	Priest Rapids	McNary	John Day	The Dalles	
January	10	10	10	50	20	20	20	An instream flow rule adopted by Ecology did not specify instream flow quantities and expired on July 1, 1999 (WAC 173-564-040).
February	10	10	10	50	20	20	20	
March	10	10	10	50	50	50	50	
April 1-15	20	20	20	50	50	50	70	
16-25	20	30	30	50	70	70	70	
26-30	20	50	50	50	70	70	70	
May	20	50	50	50	70	70	70	
June 1-15	20	50	50	50	70	70	70	
16-30	10	20	20	50	50	50	50	
July 1-15	10	20	20	50	50	50	50	
16-31	10	50	50	50	50	50	50	
August	10	50	50	50	50	50	50	
September	10	20	20	36	50	50	50	
October 1-15	10	20	20	36	50	50	50	
16-31	10	20	20	50	50	50	50	
November	10	10	10	50	50	50	50	
December	10	10	10	50	20	20	20	

**NOTES**

Abbreviations:  $Q_i$ : instantaneous flow; WAC: Washington Administrative Code; kcfs: thousand cubic feet per second

<sup>1</sup> WAC 173-563 also reports instream flow requirements as a minimum average weekly flow in kcfs which are not included in this table. See the WAC for more detail concerning implementation of the instream flow rule.

**Table 3-7.** Existing and Proposed Instream Flow Requirements for Tributaries to the Mainstem Columbia River<sup>1</sup>

Month	Day	Colville River <sup>2</sup>	Okanogan River <sup>3</sup>	Foster Creek <sup>4</sup>	Methow River <sup>5</sup>	Entiat River <sup>6</sup>	Wenatchee River <sup>7</sup>		Walla Walla River <sup>8</sup>
		WAC 173-559 (cfs)	WAC 173-549 (cfs)	Proposed (cfs)	WAC 173-548 (cfs)	WAC 173-546 (cfs)	WAC 173-545 (cfs)	Proposed <sup>9</sup> (cfs)	Proposed (cfs)
January	1-14	80	860	5.0	350	185	820	1,867	250
	15-31	80	830	5.0	350	185	820	1,867	250
February	1-14	80	820	5.0	350	185	820	1,867	250
	15-28	100	850	5.0	350	185	800	2,400	250
March	1-14	124	880	5.3	350	185	800	2,400	350
	15	157	900	5.3	350	185	1,040	2,400	350
	16-31	157	900	5.3	350	250	1,040	2,400	350
April	1-14	200	925	9.5	590	250	1,350	2,400	350
	15	200	1,100	9.5	860	250	1,750	2,400	350
	16-30	200	1,100	9.5	860	350	1,750	2,400	350
May	1-14	200	1,750	6.3	1,300	474	2,200	2,400	250
	15	135	3,800	6.3	1,940	474	2,800	2,400	250
	16-31	135	3,800	6.3	1,940	720	2,800	2,400	250
June	1-14	90	3,800	4.2	2,220	898	3,500	2,400	stream closed
	15	70	3,800	4.2	2,220	898	2,400	2,400	stream closed
	16-30	70	3,800	4.2	2,220	617	2,400	1,600	stream closed
July	1-14	55	2,100	2.8	2,150	359	1,700	1,600	stream closed
	15	43	1,200	2.8	800	359	1,200	1,600	stream closed
	16-31	43	1,200	2.8	800	268	1,200	1,600	stream closed
August	1-14	33	800	1.3	480	185	800	1,600	stream closed
	15	33	600	1.3	300	185	700	1,600	stream closed
	16-31	33	600	1.3	300	185	700	900	stream closed
September	1-14	40	620	1.5	300	185	700	900	stream closed
	15	49	700	1.5	300	185	700	900	stream closed
	16-30	49	700	1.5	300	185	700	1,338	stream closed
October	1-14	60	750	2.7	360	185	700	1,723	stream closed
	15	70	960	2.7	425	185	700	1,723	stream closed
	16-31	70	960	2.7	425	185	700	2,427	stream closed
November	1-14	84	950	3.9	425	185	800	2,800	stream closed
	15-30	100	950	3.9	425	185	800	2,800	stream closed
December	1-14	100	930	5.0	390	185	800	1,867	250
	15-31	90	900	5.0	350	185	800	1,867	250

See notes on next page.

Table 3-7

**NOTES**

Abbreviations: cfs: cubic feet per second

<sup>1</sup> The numbers in this table represent flows set by rule and are not necessarily representative of actual flows. See Figure 3-7 for a comparison of state instream flow rule flows and the average annual Columbia River flows. The instream flow requirement is reported for the measuring point closest to the junction of the tributary and the mainstem of the Columbia River. The proposed instream flow rule for the Washougal River in WRIA 28 was not included in this table because its confluence with the mainstem of the Columbia River is downstream of Bonneville Dam and therefore outside the study area. The WRIA 35 Planning Unit intends to develop instream flow recommendations in the final draft of the Watershed Management Plan, but that information has not been finalized at this time (HDR, 2006, Draft WRIA 35 Watershed Management Plan). Instream flows in the Yakima River Basin (WRIAs 37, 38 and 39) were not recommended in the Watershed Plan because the river already has target flows established for the Yakima River under the federal Yakima River Basin Water Enhancement Program (YRBWEP) (EES, et al. 2003, Watershed Plan).

<sup>2</sup> As measured at gage #12409000.

<sup>3</sup> As measured at the Okanogan River at Malott gage (#12447200).

<sup>4</sup> Based on the recommendation in the Watershed Management Plan as measured at the Bridgeport irrigation diversion dam (RM 1.03) on Foster Creek (Foster Creek Conservation District, Management Plan, 2004).

<sup>5</sup> As measured at the Methow River near Pateros gage (#12449950).

<sup>6</sup> As measured at the Keystone gage (USGS gage #12452990).

<sup>7</sup> As measured at the Monitor gage (USGS gage #12462500).

<sup>8</sup> As measured on the Walla Walla River below the confluence of West Little Walla Walla. There is no existing gage at this location (HDR, WRIA 32 Watershed Plan, 2005).

<sup>9</sup> Based on the proposed instream flow in the Watershed Plan (WRIA 45 Planning Unit, 2006, Table 4-2).

<sup>10</sup> Other instream flow requirements exist in upper portions of major tributaries or in smaller streams.

<b>Table 3-8. Status of Watershed Planning in the Columbia Basin</b>						
WRIA No. & Name	Phase I Organization and Scope	Phase II Assessment	Phase III Planning	Phase IV Implementation Plan and Projects		
				Phase IV Awarded	DIP Completed	Projects
27 & 28 Lewis/ Salmon- Washougal			Approved by County, July 2006			
29 Wind-White Salmon			Approved by PU (west half), Dec. 2005			
30 Klickitat			Approved by County, Aug. 2006			
31 Rock-Glade						
32 Walla Walla			Approved by Counties, June 2005	Jan. 2006	June 2006	
33 Lower Snake	Not Planning					
34 Palouse			Anticipated Summer 2007			
35 Middle Snake			Anticipated Summer 2007			
36 Esquatzel Coulee	Not Planning					
37, 38 & 39 Lower/Upper Yakima & Naches			Approved by Yakima and Benton Counties, Nov. 2005	Sept. 2006		
40a Stemilt Squilchuck						
40b Alkali	Not Planning					
41 Lower Crab	Not Planning					
42 Grand Coulee	Not Planning					
43 Upper Crab-Wilson			Anticipated Summer 2007			
44 & 50 Moses Coulee & Foster Creek			Approved by Counties, Nov. 2004	Feb. 2005	Feb. 2006	
45 Wenatchee			Approved by County, June 2006			
46 Entiat			Approved by County, Sept. 2004	Feb. 2005	Feb. 2006	
47 Chelan	Not Planning					

See next page for notes.

Table 3-8



WRIA No. & Name	Phase I Organization and Scope	Phase II Assessment	Phase III Planning	Phase IV Implementation Plan and Projects		
				Phase IV Awarded	DIP Completed	Projects
48 Methow			Approved by County, June 2005			
49 Okanogan						
51 Nespelem	Not Planning					
52 Sanpoil	Not Planning					
53 Lower Lake Roosevelt	Not Planning					
54 Lower Spokane						
55 & 57 Little Spokane & Middle Spokane			Approved by County, Jan. 2006			
56 Hangman			Approved by County, Sept. 2005	Oct. 2006		
58 Middle Lake Roosevelt	Not Planning					
59 Colville			Approved by County, Nov. 2004	March 2005	April 2006	
60 Kettle			Planning Discontinued July 2004			
61 Upper Lake Roosevelt	Not Planning					
62 Pend Oreille			Approved by County, May 2005	Sept. 2005		

**NOTES**

Abbreviations: PU: Planning Unit; DIP: Detailed Implementation Plan

	Phase Complete
	Phase in Progress

**Table 3-9.** Columbia River Treaty Tribes, Columbia/Snake River TMDL Tribal Contacts, and Tribes with Land in the Washington portion of the Columbia River Basin<sup>1</sup>

Tribe	Location	Population/Area <sup>2</sup>	Water Regulations
Confederated Tribes and Bands of the Yakama Indian Nation <sup>3</sup>	Central Washington	8,870 / 1,371,918 acres	Yakama Nation Water Code Title 60
Confederated Tribes of the Colville Reservation	North central Washington	8,882 / 1,300,000 acres	Tribal Code: Chapter 4-10 Water Resources Use and Permitting
Confederated Tribes of the Umatilla Indian Reservation <sup>3</sup>	Northeast Oregon	2,000 / 157,982 acres	Umatilla Water Code
Confederated Tribes of the Warm Springs Reservation of Oregon <sup>3</sup>	Central Oregon	3,755 / 641,000 acres	Chapter 431: Warm Springs Water and Sewer System Act
Kalispel Tribe	Northeast Washington	250 / 4,600 acres	Water Quality Standards Applicable to Waters within the Kalispel Indian Reservation
Nez Perce Tribe <sup>3</sup>	Northern Idaho	3,010 / 88,314 acres	Water infractions and water use and conservation (pertaining to utility department) discussed in Tribal Code.
Spokane Tribe	Eastern Washington	2,153 / 154,000 acres	Not Available

**NOTES**

<sup>1</sup> Other Tribes are present in the Columbia Basin, but do not have reservation lands in Washington State.

<sup>2</sup> Data provided by Northwest Portland Area Indian Health Board. [http://www.npaihb.org/profiles/tribal\\_profiles/interface.htm](http://www.npaihb.org/profiles/tribal_profiles/interface.htm) (accessed 9/06).

<sup>3</sup> Tribes in Columbia Basin with reserved rights to anadromous fish in the Columbia River from the 1855 treaties with the United States. Data provided by the Columbia River Inter-Tribal Fish Commission. <http://www.critfc.org/text/tribes> (accessed 9/06).

**Table 3-10.** Minimum Daily Dam Outflows and Flow Targets for Bonneville, McNary, and Priest Rapids Dams

Date	Bonneville Dam			McNary Dam				Priest Rapids Dam			
	2004 BiOp Flow Objective <sup>1</sup> (kcfs)	2001 (kcfs)	2003 (kcfs)	WAC 173-563 Min. Q <sub>i</sub> (kcfs)	2004 BiOp Flow Objective <sup>1</sup> (kcfs)	2001 (kcfs)	2003 (kcfs)	WAC 173-563 Min. Q <sub>i</sub> (kcfs)	2004 BiOp Flow Objective <sup>1</sup> (kcfs)	2001 (kcfs)	2003 (kcfs)
Oct 1-15	--	103	83	50	--	82	75	36	--	50	51
Oct 16-31	--	95	77	50	--	70	66	50	--	43	50
Nov	125-160 <sup>2</sup>	126	116	50	--	99	95	50	--	67	67
Dec	125-160 <sup>2</sup>	130	106	20	--	106	90	50	--	68	76
Jan	125-160 <sup>2</sup>	120	108	20	--	94	83	50	--	68	71
Feb	125-160 <sup>2</sup>	123	112	20	220-260 <sup>3</sup>	81	89	50	135	67	71
Mar	125-160 <sup>2</sup>	100	125	50	220-260 <sup>3</sup>	92	106	50	135	66	71
Apr 1-2	125-160 <sup>2</sup>	111	185	50	220-260 <sup>3</sup>	89	169	50	135	66	96
Apr 3-9	125-160 <sup>2</sup>	104	181	50	220-260 <sup>3</sup>	91	173	50	135	64	73
Apr 10-15	125-160 <sup>2</sup>	98	179	50	220-260 <sup>3</sup>	81	161	50	135	64	84
Apr 16-25	125-160 <sup>2</sup>	94	208	70	220-260 <sup>3</sup>	81	174	50	135	65	99
Apr 26-30	125-160 <sup>2</sup>	108	235	70	220-260 <sup>3</sup>	110	206	50	135	64	109
May	125-160 <sup>2</sup>	109	213	70	200	104	180	50	--	38	88
Jun 1-15	125-160 <sup>2</sup>	116	260	70	200	107	239	50	--	68	106
Jun 16-20	125-160 <sup>2</sup>	103	208	50	200	93	174	50	--	63	117
Jun 21-30	125-160 <sup>2</sup>	113	189	50	--	95	162	50	--	59	88
Jul 1-15	--	76	142	50	--	67	100	50	--	38	65
Jul 16-31	--	78	133	50	--	69	104	50	--	37	67
Aug	--	78	126	50	--	73	95	50	--	44	61
Sep	--	76	74	50	--	55	63	36	--	42	43
Oct 1-15	--	103	83	50	--	82	75	36	--	50	51

See notes on next page.

Table 3-10

**NOTES**

Abbreviations: Min: Minimum; Q<sub>i</sub>: instantaneous flow; Avg.: Average; BiOp: 2004 Biological Opinion; WAC: Washington Administrative Code; kcfs: thousand cubic feet per second

<sup>1</sup> The 2004 BiOp is issued by the National Marine Fisheries Service (NMFS) regarding the Federal Columbia River Power System (FCRPS). The data in the table are from Bureau of Reclamation, Bonneville Power Administration, and U.S. Army Corps of Engineers (Action Agencies). 2004. Final Updated Proposed Action for the FCRPS Biological Opinion Remand. November 24, 2004.

<sup>2</sup> Objective varies based on actual and forecasted water conditions. The dates to which this flow objective applies include 11/1 to emergence (spring season) which may vary each year.

<sup>3</sup> Objective varies according to water volume forecasts.

**Table 3-11. Federal Hydro System Operations for Fish**

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
Lower Columbia Basin	<b>Bonneville BON</b>	Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	Run of River
		If water conditions indicate that minimum flows of 125 kcfs below BON can likely be maintained: implement mainstem chum flows. If not, provide flows below BON to enable access to spawning areas.	Columbia River Chum	November 1-April	Yes	
		Special operations for hatchery release may include: powerhouse 2 priority operation, operation of bypass system, screens installed, spill.	Spring Creek Hatchery Fish Release	March	No	
	<b>The Dalles TDA</b>	Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	Run of River
	<b>John Day JDA</b>	Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	Run of River
		Operate within 1.5 feet of MOP to reduce juvenile travel time.	Spring Salmon/Steelhead	Apr 10-Sep 30	Yes	
		Operate within 1.5 feet of level that will allow irrigation to reduce juvenile travel time.	Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	
	<b>McNary MCN</b>	Flow objective of 220-260 kcfs.	Spring Salmon/Steelhead	April 10-June 30	Yes	Run of River
		Flow objective of 200 kcfs.	Summer Salmon/Steelhead	July 1-August 31	Yes	
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Oct 31	Yes	
	<b>BON, TDA, JDA, MCN</b>	Spring Spill.	Spring Salmon/Steelhead	Approx. April 10-June 30	Yes	
	<b>BON, TDA, JDA</b>	Summer Spill.	Summer Salmon/Steelhead	Approx. July 1-August 31	Yes	

See notes at end of table.

Table 3-11

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
Mid Columbia Basin	<b>Priest Rapids* PRD</b>	Flow objective of 135 kcfs.	Spring Salmon/Steelhead	Approx. April 10-June 30	Yes	Run of River
	<b>Priest Rapids* PRD</b>	Hanford Reach protection flows. Grant County PUD limits outflow to minimize juvenile fish stranding.	Salmon/Steelhead	Routinely	No	Run of River
	<b>Priest Rapids* PRD</b>	Vernita Bar protection flows. Flow management from Priest Rapids Dam to ensure that fall chinook salmon spawn at an elevation which allows the redds to remain under water. Flow fluctuations are limited from the time of fry emergence.	Upper Columbia River Fall Chinook Salmon	Approx. October-June	No	Run of River
Upper Columbia Basin	<b>Chief Joseph CHJ</b>	<b>No Special Operations.</b>				Run of River
	<b>Grand Coulee GCL</b>	Draft for summer flow augmentation, not to exceed reservoir draft limit.	Summer Salmon/Steelhead	July-August	Yes	Storage
		Operate Banks Lake 5 feet less than full to provide water for summer flow augmentation.	Summer Salmon/Steelhead	July-August	Yes	
		Consider opportunities for flood control shift with Brownlee and Dworshak for Lower Snake flow augmentation.	Summer Salmon/Steelhead	Routinely	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
		Fill to 1,283 ft. by Oct. 1 and maintain elevation of 1,283 to 1,285 or greater through October.	Kokanee	Fall-Winter	No	
	<b>Libby LIB</b>	Provide pulsed flows for sturgeon.	Kootenai White Sturgeon	October	Yes	Storage
		Operate to minimum flows and project ramp rates to minimize adverse affects to flow fluctuations.	Bull Trout	Year round	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
		Operate to meet flow objectives and June 30 refill.	Spring Salmon/Steelhead	Spring	Yes	
		Maintain low flows (considered annually).	Burbot	December-February	No	

See notes at end of table.

Table 3-11

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
Upper Columbia Basin Cont.	Albeni Falls ALF	Maintain elevation of 2,055 feet until Kokanee fry emergence to provide Bull trout forage.	Bull Trout	Fall-Winter	Yes	Storage
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
	Hungry Horse HGH	Operate to minimum flows and project ramp rates to minimize adverse affects to flow fluctuations.	Bull Trout	Year round	Yes	Storage
		Draft for summer flow augmentation, not to exceed reservoir draft limit.	Summer Salmon/Steelhead	July-August	Yes	
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
Lower Snake Basin	Ice Harbor IHR	Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
	Lower Monumental LMN	Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
	Little Goose LGS	Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	Run of River
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
	Lower Granite LWG	Flow objective of 85-100 kcfs.	Spring Salmon/Steelhead	April 3-June 20	Yes	Run of River
		Operate within 1 foot of MOP to reduce juvenile travel time.	Spring & Summer Salmon/Steelhead	Approx. April 3 - late August	Yes	
		Operate within 1% of peak turbine efficiency to create smooth, efficient flow over the blades.	Spring & Summer Salmon/Steelhead	Mar 15-Nov 30	Yes	
		Flow objective of 50-55 kcfs.	Summer Salmon/Steelhead	June 21-August 31	Yes	

See notes at end of table.

Table 3-11

Location	Project	Action	Affected ESU	Timing	BiOp	Project Type
<b>Lower Snake Basin Cont.</b>	<b>Dworshak DWR</b>	Draft for summer flow augmentation and water temperature reduction, not to exceed reservoir draft limit.	Summer Salmon/Steelhead	Summer	Yes	Storage
		Storage may be used to support chum flows.	Columbia River Chum	Fall-Winter	Yes	
	<b>IHR, LMN, LGS, LWG</b>	Spring Spill, no voluntary spill at the Snake River collector projects (LMN, LGS, LWG) when seasonal average flows are forecast to be less than 85 kcfs.	Snake River Spring Salmon/Steelhead	Approx. April 3 - June 20	Yes	
	<b>IHR</b>	Summer Spill.	Snake River Summer Salmon/Steelhead	Approx. June 21- August 31	Yes	
<b>Upper Snake Basin</b>	<b>Black Canyon Boise Diversion Anderson Ranch Minidoka Palisades</b>	Reclamation will attempt to provide 427 kaf from Upper Snake projects for flow augmentation.	Snake River Spring & Summer Salmon/Steelhead	Spring & Summer	Yes	Storage, one diversion project

**NOTES**

Source: Bonneville Power Administration. 2006. Bonneville Power Administration Comments on the Water Supply Inventory and Long-Term Water Supply and Demand Forecast Draft Report. November 8, 2006.

\* Non-Federal Project



**Table 3-12. Key International and Interstate Agreements**

Agreement	Parties	Description/Terms <sup>1</sup>	Expiration
<b>International</b>			
Boundary Waters Treaty of 1909	United States and Canada	Created the International Joint Commission (IJC) to address international water right disputes.	None
Columbia River Treaty of 1961	United States and Canada	<ul style="list-style-type: none"> <li>• Provided for the construction of four dams on the upper Columbia River for flood control and hydropower generation.</li> <li>• Canada can divert up to 1.5 million acre-feet of water from the Kootenay River into the headwaters of the Columbia River.</li> <li>• Canada can divert water until 2064 as long as the flow in the Kootenay River is 2,500 cfs at the border.</li> </ul>	Option <sup>2</sup>
Pacific Salmon Treaty of 1985	United States and Canada	Maintain an adequate water quantity and quality to sustain salmon fisheries in the Columbia River.	None
Lake Roosevelt-Columbia River Treaty and Tributary Systems	Washington and Canada	Delineates cooperation and coordination on water quality discharges and large consumptive use withdrawals above 10 cfs on the Columbia River or tributary systems that affect both Washington and Canada.	None
<b>Interstate</b>			
Columbia River Compact of 1999	Washington and Oregon	Provides the authority for Washington and Oregon to adopt seasons and rules for Columbia River commercial fisheries.	None

**NOTES**

Abbreviations: cfs: cubic feet per second

<sup>1</sup> Based on information in National Research Council (2004) and Ecology (2003).

<sup>2</sup> Although the treaty has no expiration date, both countries have the option to terminate the Treaty in 2024 with a 10-year advanced notice.

**Table 3-13. Columbia River Monitoring Network – Mainstem<sup>1</sup>**

Gage Name	Gage No.	Agency	Real Time Data Available	Flow Data Available	Stage Data Available
Columbia River at Donald	08NB005	Environment Canada	Yes	Yes	Yes
Columbia River at Birchbank	08NE049	Environment Canada	Yes	Yes	Yes
Columbia River at International Boundary	12399500	USGS	Yes	Yes	Yes
Columbia River at Grand Coulee, WA	12436500	USGS	No	Yes	No
Columbia River at Bridgeport, WA	12438000	USGS	No	Yes	No
Columbia River below Wells Dam, WA	12450700	USGS	No	Yes	No
Columbia River at Rocky Reach Dam, WA	12453700	USGS	No	Yes	No
Columbia River below Rock Island Dam, WA	12462600	USGS	No	Yes	No
Columbia River below Priest Rapids Dam, WA	12472800	USGS	Yes	Yes	Yes
Columbia River on Clover Island at Kennewick, WA	12514500	USGS	No	No	Yes
Columbia River at The Dalles, OR	14105700	USGS	Yes	Yes	Yes
Columbia River below Bonneville Dam, OR	14128870	USGS	Yes	No	Yes
Columbia River at Vancouver, WA	14144700	USGS	Yes	No	Yes
Columbia River at Beaver Army Terminal Near Quincy, OR	14246900	USGS	Yes	Yes	Yes

**NOTES**

Abbreviations: No.: Number; WA: Washington; OR: Oregon; USGS: U.S. Geological Survey

<sup>1</sup> Data are available on the Environment Canada and USGS websites. The Environment Canada website is <http://scitech.pyr.ec.gc.ca/waterweb/formNav.asp> [Accessed September 13, 2006], and the USGS website is <http://waterdata.usgs.gov/nwis/inventory/> [Accessed September 13, 2006].

**Table 3-14. Columbia River Monitoring Network – Tributaries<sup>1</sup>**

Gage Name	Gage No.	Agency	Real Time Data Available	Flow Data Available	Stage Data Available
Kicking Horse River at Golden	08NA006	Environment Canada	Yes	Yes	Yes
Kootenay River At Fort Steele	08NG065	Environment Canada	Yes	Yes	Yes
Pend Oreille River At International Boundary	12398600	USGS	Yes	Yes	No
Kettle River Near Laurier, WA	12404500	USGS	Yes	Yes	Yes
Colville River At Kettle Falls, WA	12409000	USGS	Yes	Yes	Yes
Spokane River At Long Lake, WA	12433000	USGS	No	Yes	No
Okanogan River At Malott, WA	12447200	USGS	Yes	Yes	Yes
Methow River Near Pateros, WA	12449950	USGS	Yes	Yes	Yes
Chelan River At Chelan, WA	12452500	USGS	No	Yes	No
Entiat River Near Entiat, WA	12452990	USGS	Yes	Yes	Yes
Wenatchee River At Monitor, WA	12462500	USGS	Yes	Yes	Yes
Yakima River At Kiona, WA	12510500	USGS	Yes	Yes	Yes
Snake River Near Anatone, WA	13334300	USGS	Yes	Yes	Yes
Walla Walla River Near Touchet, WA	14018500	USGS	Yes	Yes	Yes
Umatilla River Near Umatilla, OR	14033500	USGS	Yes	Yes	Yes
John Day River At Mcdonald Ferry, OR	14048000	USGS	Yes	Yes	Yes
Deschutes River At Moody, Near Biggs, OR	14103000	USGS	Yes	Yes	Yes
Klickitat River Near Pitt, WA	14113000	USGS	Yes	Yes	Yes
Hood River At Tucker Bridge, Near Hood River, OR	14120000	USGS	Yes	Yes	Yes
White Salmon River Near Underwood, WA	14123500	USGS	Yes	Yes	Yes
Sandy River blw Bull Run River, Nr Bull Run, OR	14142500	USGS	Yes	Yes	Yes
Willamette River At Portland, OR	14211720	USGS	Yes	Yes	Yes
Lewis River At Ariel, WA	14220500	USGS	Yes	Yes	Yes
Cowlitz River At Castle Rock, WA	14243000	USGS	Yes	Yes	Yes

See notes on next page.

Table 3-14

## NOTES

Abbreviations: No.: Number; WA: Washington; OR: Oregon; USGS: U.S. Geological Survey

<sup>1</sup> The closest active gaging station to the Columbia River on the tributary. Data are available on the Environment Canada and USGS websites. The Environment Canada website is

<http://scitech.pyr.ec.gc.ca/waterweb/formNav.asp> [Accessed September 13, 2006] and the USGS website is

<http://waterdata.usgs.gov/nwis/inventory/> [Accessed September 13, 2006].

**Table 3-15. Columbia River Basin Water Forecasting Activities**

Forecast Parameter	Agency	Forecast Activity Description
Climate, Drought	NOAA Climate Prediction Center	Produces weekly drought forecasts based on the Palmer Drought Severity Index. Includes prognostic discussions for monthly outlooks. Also provides monthly and long-lead (3-month) climate forecasts for the entire US.
Excessive Rainfall Significant River Flood Outlook Water Supply Outlooks	NOAA National Weather Service Hydrological Information Center	Provides outlooks for where rain intensities could cause flash flooding, five-day flood forecasts, and information on water supply conditions, focusing on inflow forecasts for reservoirs.
Extreme Weather Risk, Climate	University of Washington Climate Impacts Group (CIG)	Produces forecasts of extreme events in the Pacific Northwest (such as warm days, cold days, extreme precipitation, heavy snowfall) based on statistical relationships between extreme events and climate indicators such as El Nino. Also produces seasonal climate forecasts.
Reservoir Elevations	Columbia Basin Trust, Water Initiatives (Canada)	Forecasts Upper and Lower Columbia Basin reservoir elevations based on projected weather patterns and load requirements.
Salmon	Washington Department of Fish and Wildlife	Produces seasonal forecasts of returning salmonid species to the Columbia River.
Streamflow	Bonneville Power Administration (BPA)	BPA's streamflow forecast "system is based on the operational National Weather Service River Forecast System (NWSRFS), which includes conceptual hydrologic models for snow cover simulation and soil moisture accounting, as well as hydrologic and dynamic streamflow routing models and a reservoir operations model. The system incorporates historical, current, and future meteorological and hydrologic conditions and provides forecast information for daily operations and seasonal planning purposes. Users are able to graphically examine meteorologic and hydrologic conditions throughout the basin, run models to simulate streamflow responses to precipitation and temperature, and analyze the results for the specified forecast window."
Streamflow	Natural Resources Conservation Service (NRCS)	Produces seasonal volume forecasts once per month for various stations in the western US using multiple linear regression techniques. Forecasts are percent exceedence (10%, 30%, 50%, 70%, 90%) over periods from forecast date – June and forecast date –September. Mid-month forecasts and ensemble prediction forecasts are produced for select basins. Seasonal forecasts are produced in cooperation with the River Forecast Center.

Forecast Parameter	Agency	Forecast Activity Description
Streamflow	NOAA National Weather Service River Forecast Center	Produces streamflow forecasts three times per month for various western US stations and durations including 14 days, 120 days, season, and short-term peak flow. Forecasts use of regression-based methods and statistical methods (Ensemble Streamflow Prediction) to predict both regulated and unregulated streamflows. Seasonal forecasts are produced in cooperation with the NRCS.
Streamflow	U.S. Army Corps of Engineers (Corps)	Produces forecasts of streamflow and reservoir elevation. Also produces seasonal forecasts of flood control volumes in the Upper, Middle, and Lower Columbia River.
Streamflow	University of Washington Land Surface Hydrology Group	Produces experimental seasonal streamflow and volume forecasts once per month for various stations throughout the western US using the statistical Ensemble Streamflow Prediction method. Forecasts may be based on output from climate prediction models.
Water Supply	National Weather Service - Portland	Produces forecasts for water supply based on snowpack, precipitation, current and forecast streamflow and irrigation reservoir levels.
Water Supply	U.S. Department of the Interior, Bureau of Reclamation	Forecasts water supply based on the Modular Modeling System (MMS) used for research and operational applications.

**Table 3-16. Data Sources for Climate, Water Supply and Streamflow Prediction<sup>1</sup>**

Streamflow Forecasts	
<b>Map and Data:</b> Northwest River Forecast Center	
Climate Change/Prediction	
<b>Map:</b> Monthly and Seasonal Color Outlook	EPA's Global Warming Site
<b>Report:</b> West Coast Governors' Global Warming Initiative	British Columbia -Water, Air, and Climate Change Branch
University of Washington - Climate Impacts Group	Climate Change and Oregon
UW Climate Impacts Group quarterly electronic newsletter	California Climate Change Portal
Office of the Washington State Climatologist	United Nations Environmental Network - Climate Change
Pacific Climate Impacts Consortium	
Snowpack/Precipitation	
<b>Map:</b> NOAA Regional Snow Analyses: Northwest	<b>Summary:</b> NOAA SNOTEL Snow/Precipitation Update (choose Washington State for summary - current/average by basin)
<b>Map:</b> NOAA SNOTEL Current Snow Conditions	<b>Summary:</b> NOAA SNOTEL Pacific Northwest Region
<b>Report:</b> NOAA SNOTEL	<b>Map:</b> Precipitation and Temperature Average Ecology
<b>Summary:</b> NOAA SNOTEL Snow water Equivalent Update Graph (percent of average by basin)	Snow/Precipitation Update (by basin with basin-wide percent of average)
Reservoirs	
<b>Map:</b> Yakima River Basin Major Storage Reservoirs (tea cup)	<b>Summary:</b> NRCS Basin Wide Reservoir Summary
Monthly Basin Reports/Forecasts	
<b>Report:</b> Washington State Basin Outlook Report	<b>Map:</b> Spring and Summer Streamflow Forecasts
<b>Report:</b> Western Snowpack Conditions and Water Supply Forecast Summaries	<b>Map:</b> Mountain Snowpack (first of every month)
<b>Summary:</b> 2005-2006 NOAA U.S. Winter Outlook	
Current and Seasonal Drought Information	
<b>Map:</b> Drought Monitor: Forecasts	<b>Map:</b> U.S. Seasonal Drought Outlook (updated quarterly)
<b>Map:</b> Drought Monitor: Current Conditions	<b>Map:</b> Animated Indicator Maps for U.S. Drought Monitor
<b>Map:</b> U.S. Drought Monitor (weekly update of drought conditions)	U.S. Water Monitor - A Portal To Federal Water Information

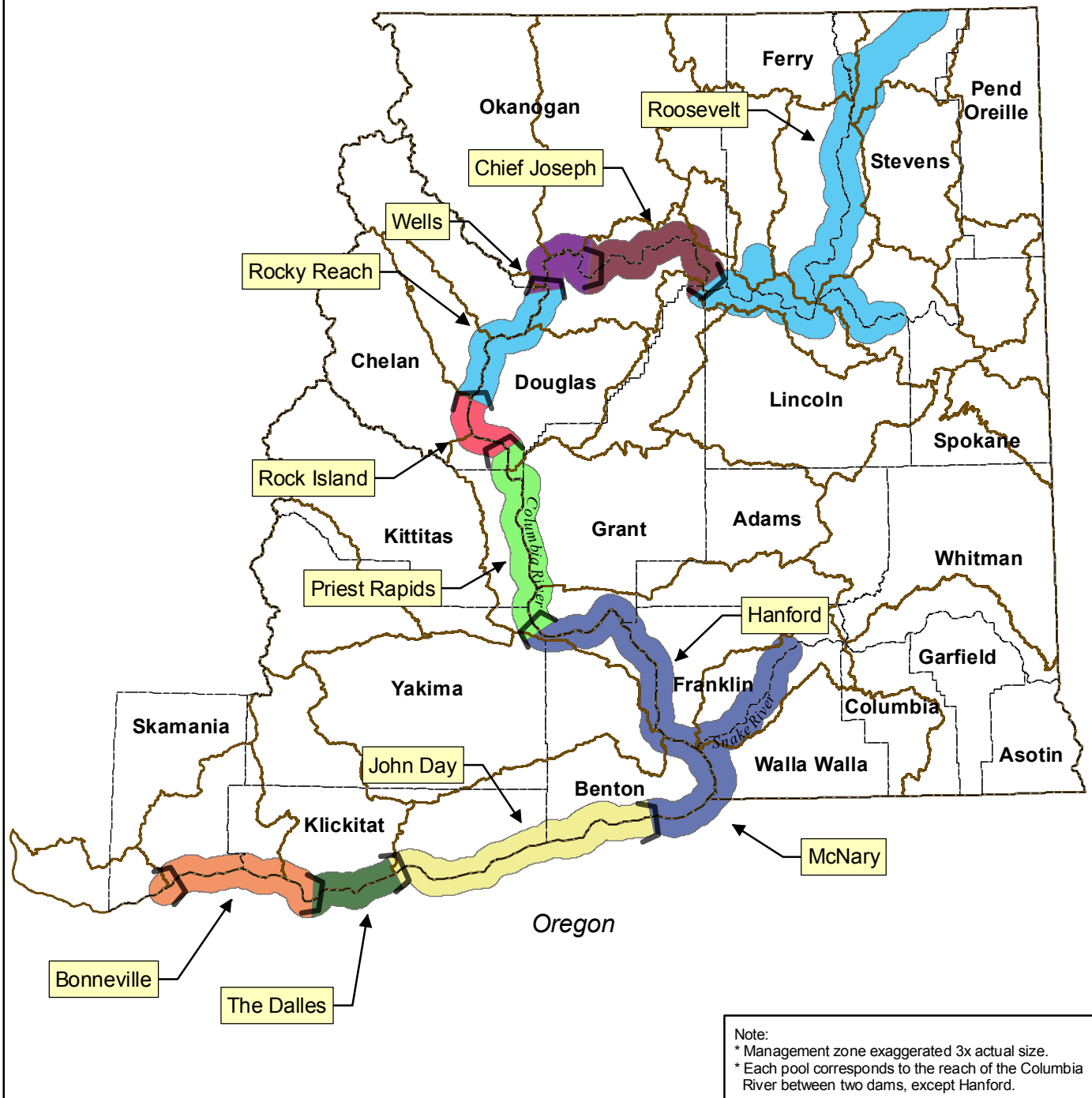
**NOTES**

Abbreviations: EPA: U.S. Environmental Protection Agency; NOAA: National Oceanic and Atmospheric Administration; NRCS: Natural Resources Conservation Service

<sup>1</sup> This table is a snapshot of a page from Ecology's website: <http://www.ecy.wa.gov/programs/wr/ws/wtrsupply.html>.

## **FIGURES**





# LEGEND

- Dam
- County Boundary
- WRIA Boundary
- Pool Reach

30 0 30  
 Scale in Miles

Map Projection:  
 UTM Zone 11, NAD 83

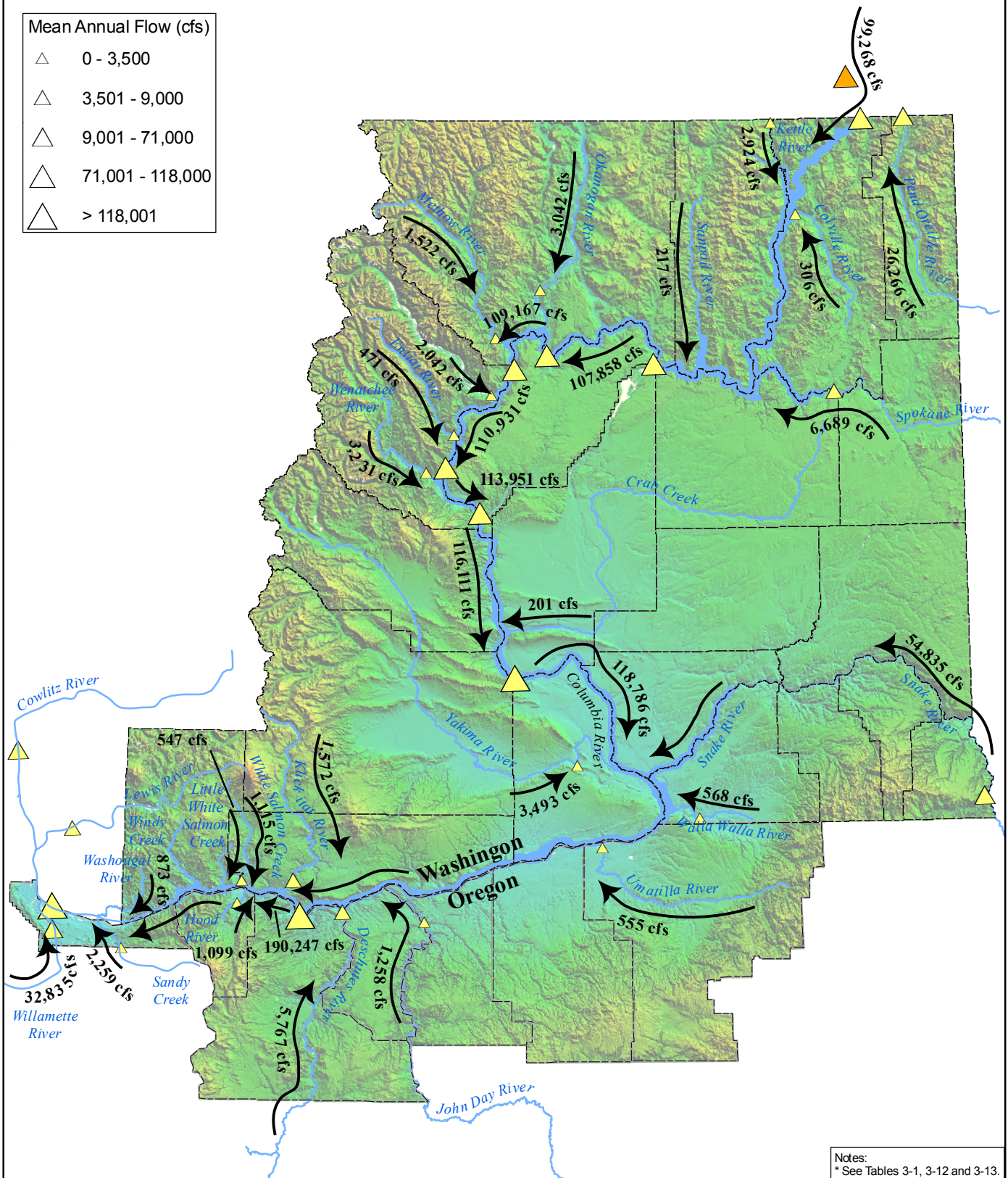
Source: WSDOE

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

## FIGURE **3-1** **MANAGEMENT UNITS** **OF THE** **COLUMBIA RIVER**

WSDOE/COLUMBIA BASIN WATER SPPLY/WA

Mean Annual Flow (cfs)	
△	0 - 3,500
△	3,501 - 9,000
△	9,001 - 71,000
△	71,001 - 118,000
△	> 118,001



Notes:  
\* See Tables 3-1, 3-12 and 3-13.

## LEGEND

- ▲ Environment Canada Gage
- ▲ USGS Gage
- River
- County Boundary
- Mean Annual Flow

20 0 20  
Scale in Miles

Map Projection:  
UTM Zone 11, NAD 83

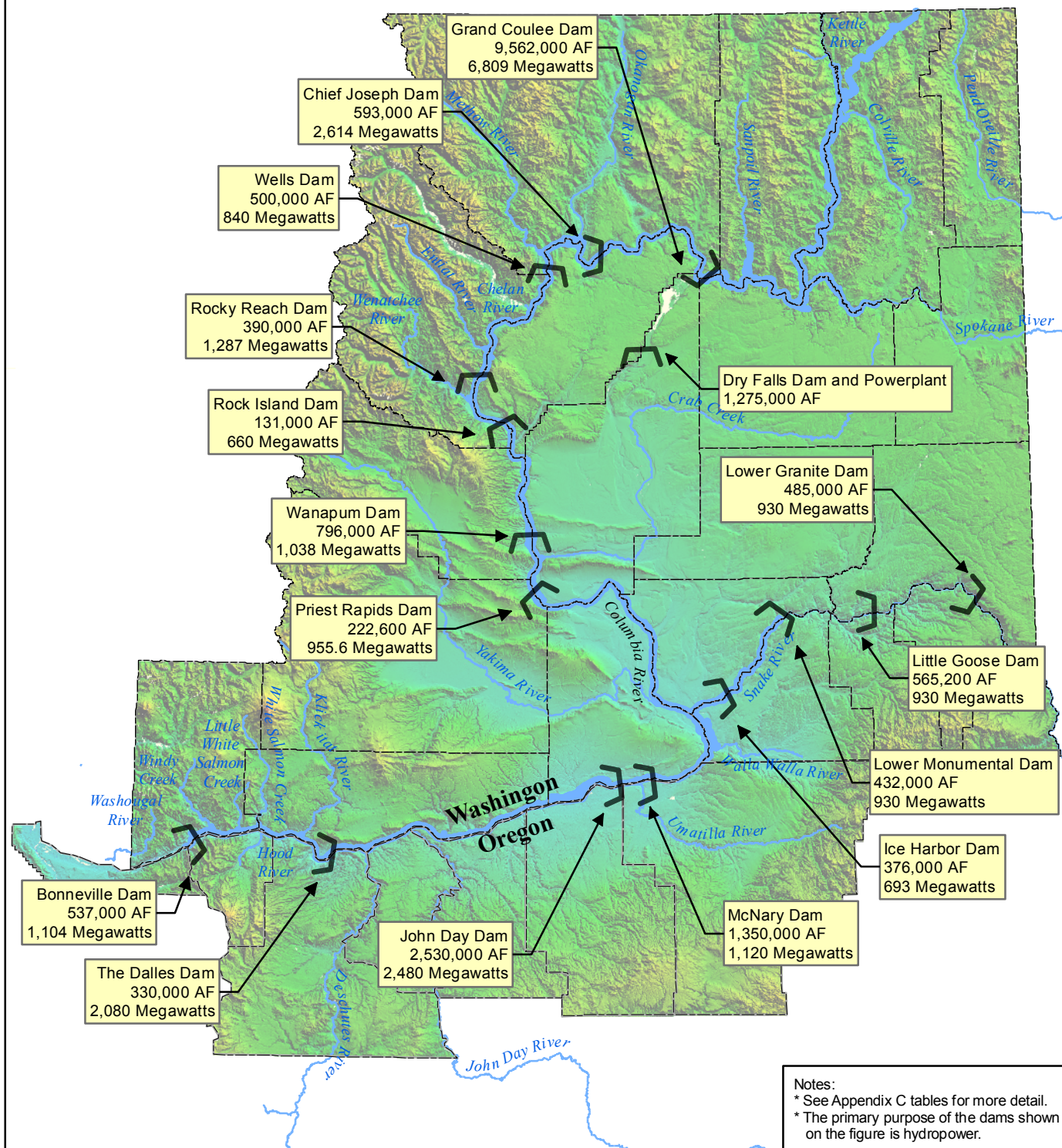
Source: WSDOE

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

## FIGURE 3-2 COLUMBIA BASIN FLOWS

WSDOE/COLUMBIA BASIN WATER SPPLY/WA





#### LEGEND

- Dam
- River
- County Boundary

25 0 25  
 Scale in Miles

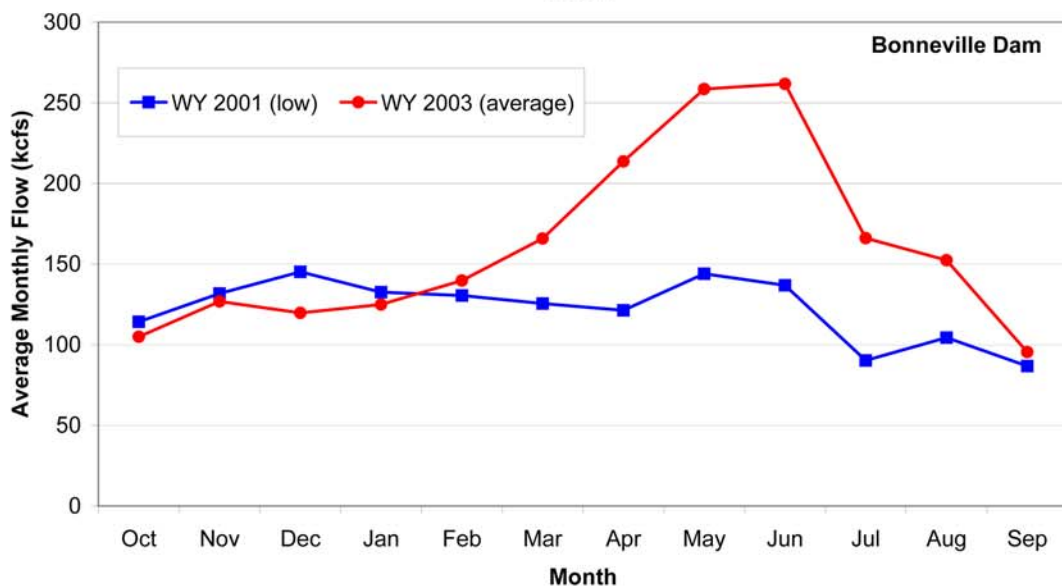
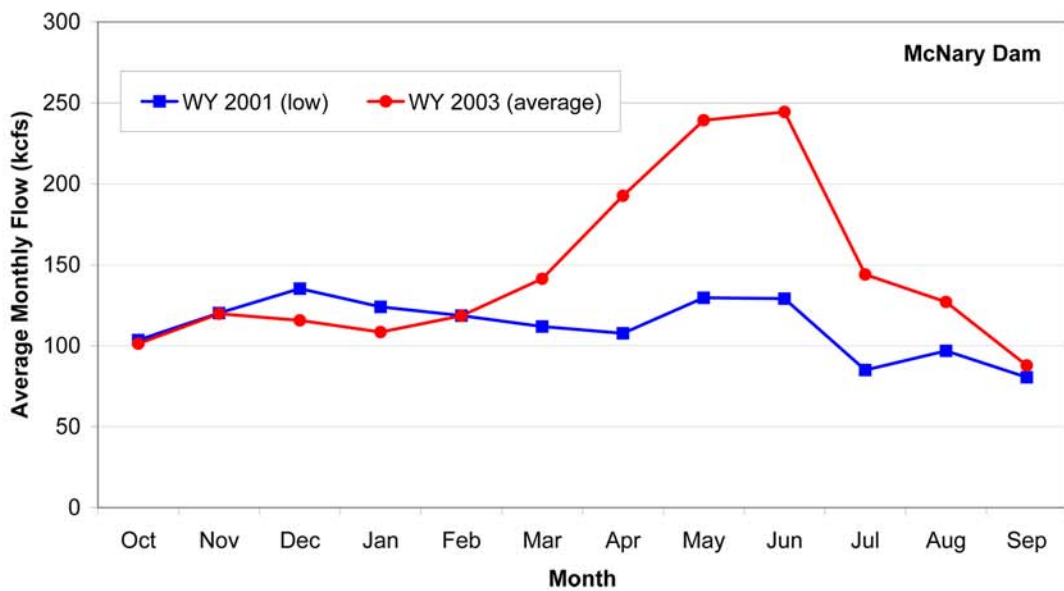
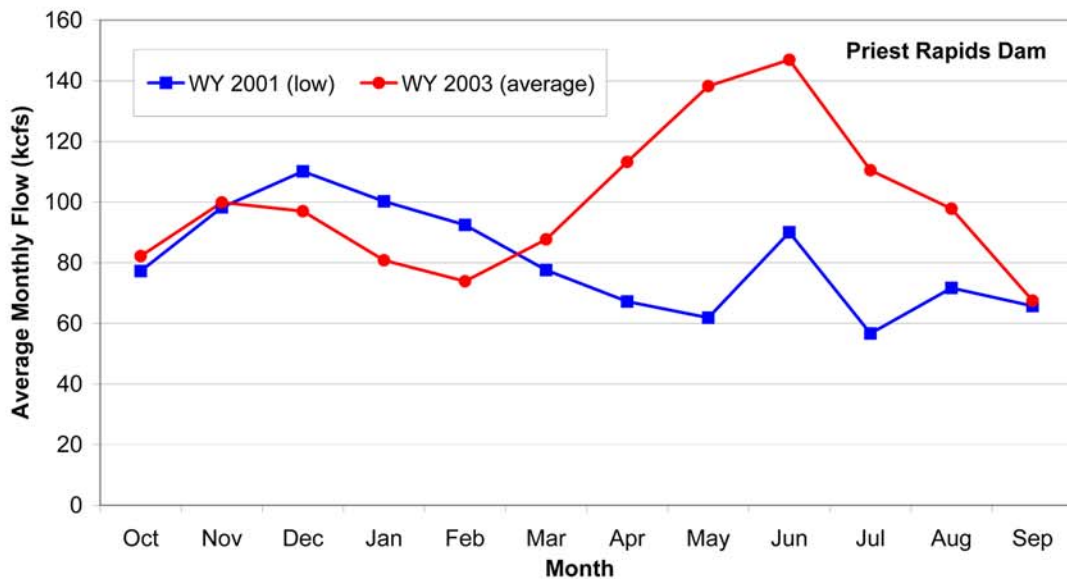
Map Projection:  
 UTM Zone 11, NAD 83

Source: WSDOE

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

### FIGURE 3-3 COLUMBIA RIVER LARGE HYDROPOWER DAMS

WSDOE/COLUMBIA BASIN WATER SPPLY/WA

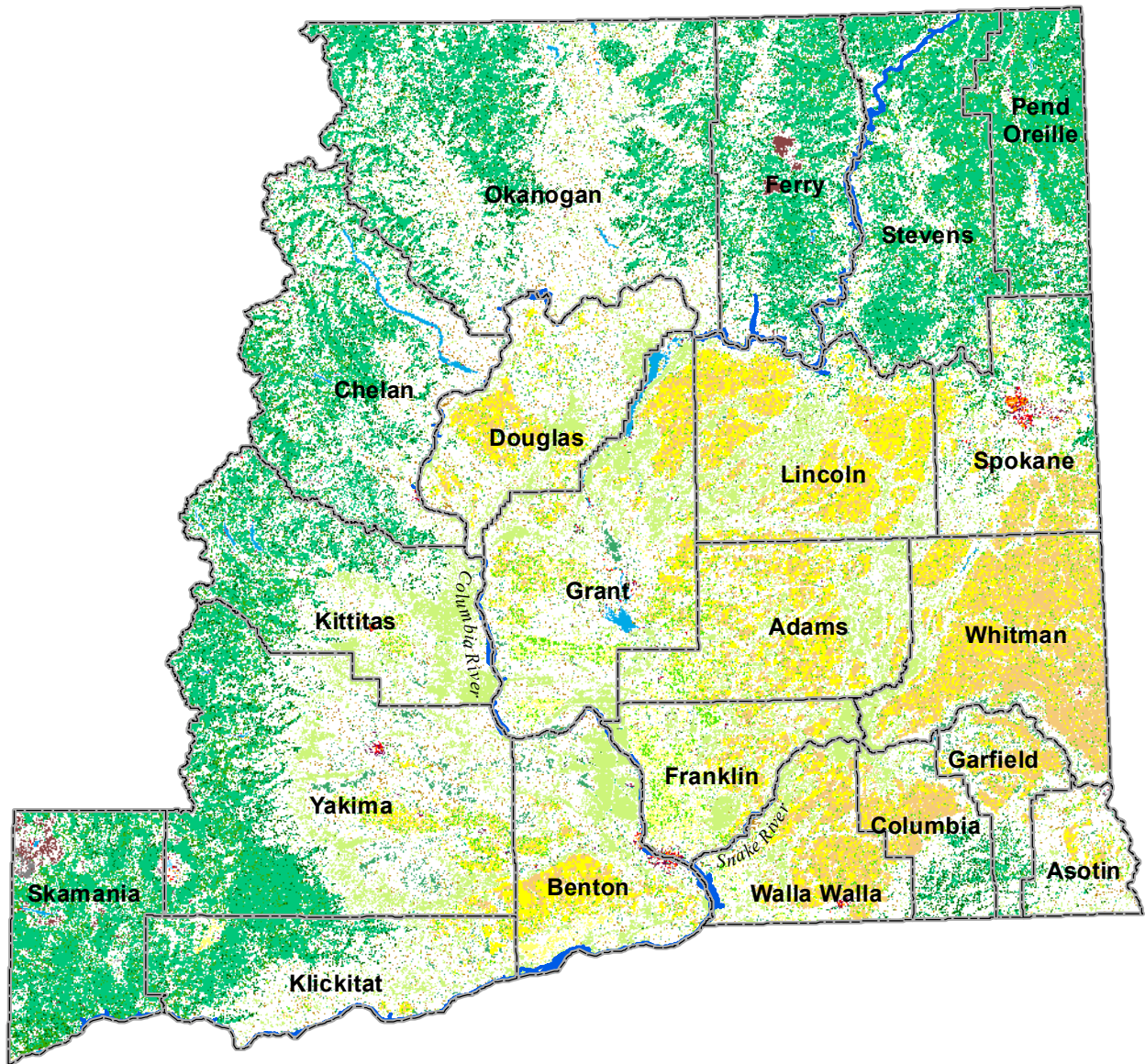























#### NOTES

KCFS Thousand Cubic Feet Per Second  
 WY Water Year (October to September)

FIGURE 3-4  
**AVERAGE MONTHLY OUTFLOW FOR PRIEST RAPIDS, MCNARY, AND BONNEVILLE DAMS, AVERAGE AND DRY WATER YEARS**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA





Land Cover Type					
	Bare Rock/Sand/Clay		High Intensity Residential		Row Crops
	Commercial/Industrial/Transportation		Low Intensity Residential		Shrubland
	Deciduous Forest		Mixed Forest		Small Grains
	Emergent Herbaceous Wetlands		Open Water		Transitional
	Evergreen Forest		Orchards/Vineyards/Other		Urban/Recreational Grasses
	Fallow		Pasture/Hay		Woody Wetlands
	Grasslands/Herbaceous		Perennial Ice/Snow		
			Quarries/Strip Mines		

Note:  
\* See Table 3-2 for more detail.

## LEGEND

- River
- County Boundary

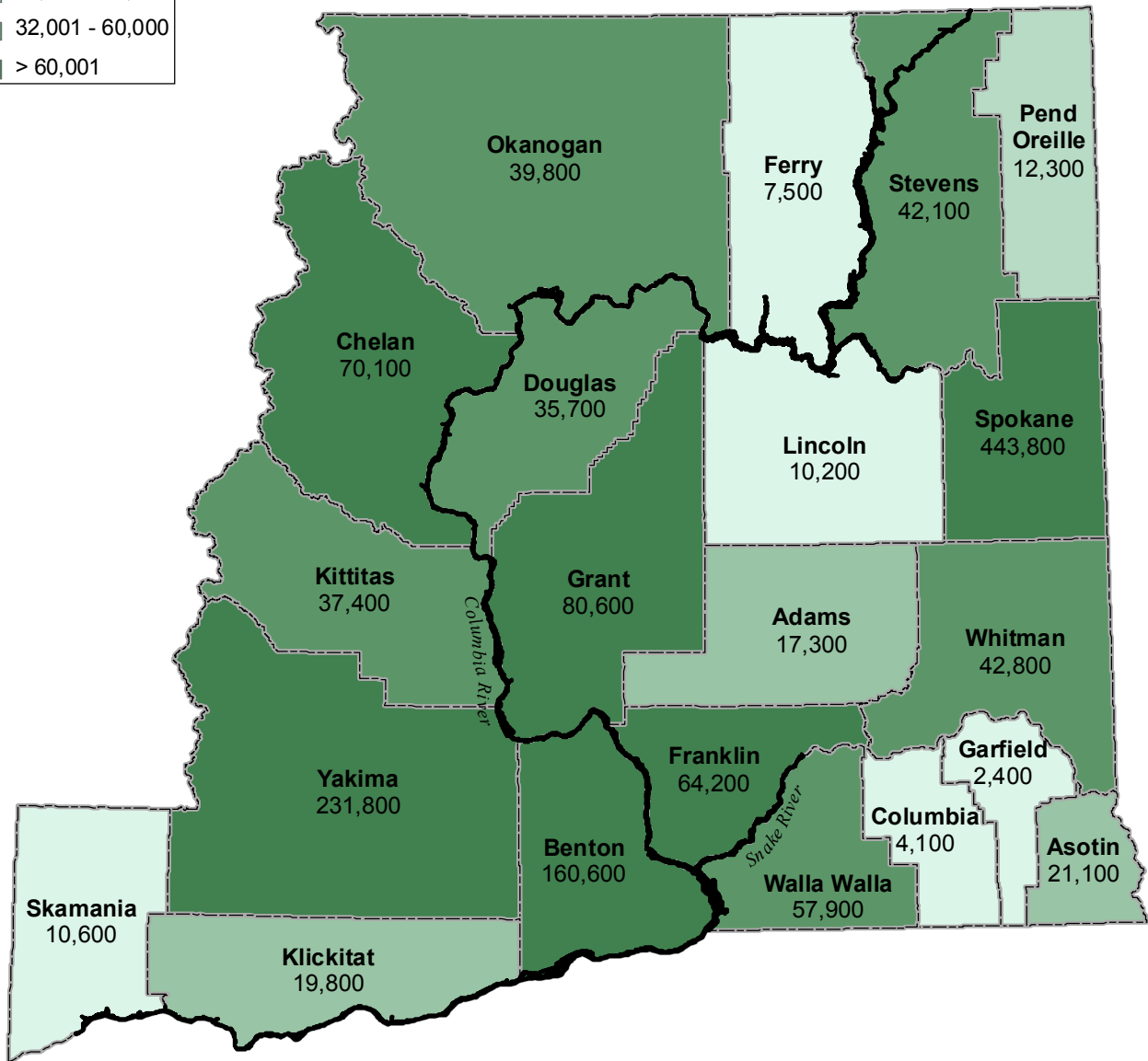
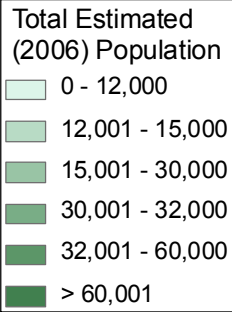
30 0 30  
Scale in Miles

Map Projection:  
GRS 1980 Albers

Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

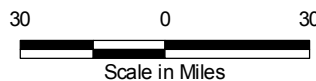
FIGURE **3-5**  
**COLUMBIA BASIN LAND COVER CHARACTERISTICS**  
WSDOE/COLUMBIA BASIN WATER SPPLY/WA



Note:  
 \* See table 3-4 for more detail.  
 Reference: Office of Financial Management, Forecasting Division. File: gmacountychange.xls  
 From: [www.ofm.wa.gov](http://www.ofm.wa.gov) (accessed 9/06) Modified June 29, 2006.

**LEGEND**

- River
- County Boundary



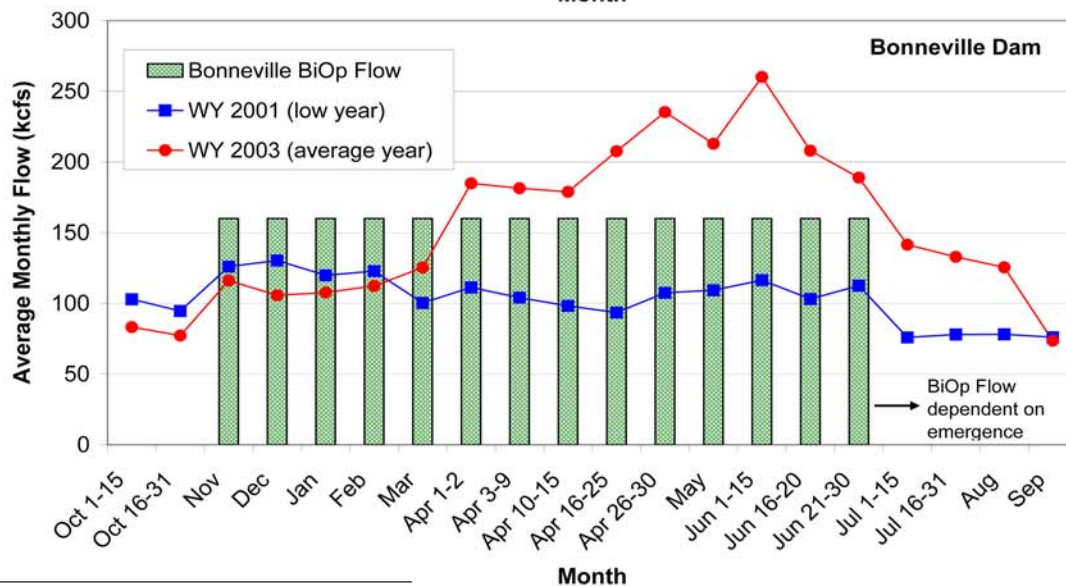
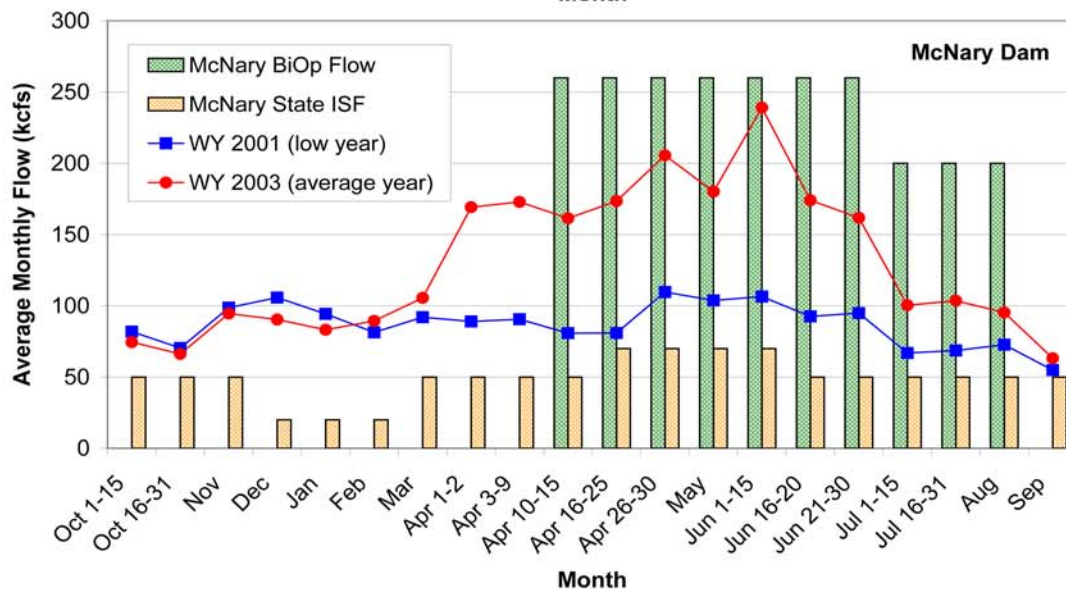
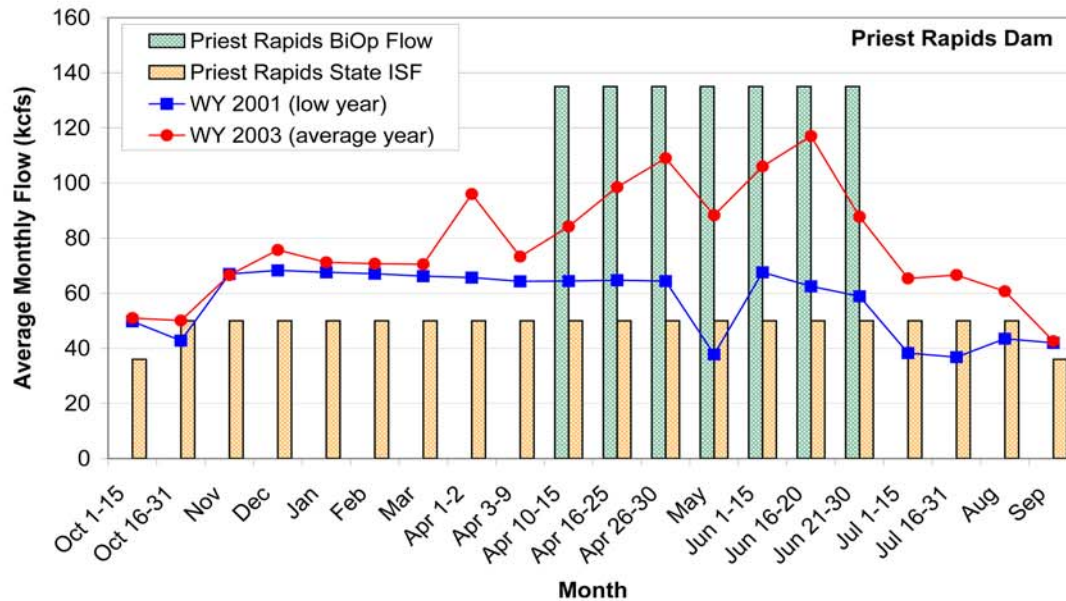
Map Projection:  
 UTM Zone 11N, NAD 83

Source: OFM

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

**FIGURE 3-6**  
**2006 OFM**  
**POPULATION ESTIMATE**  
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA



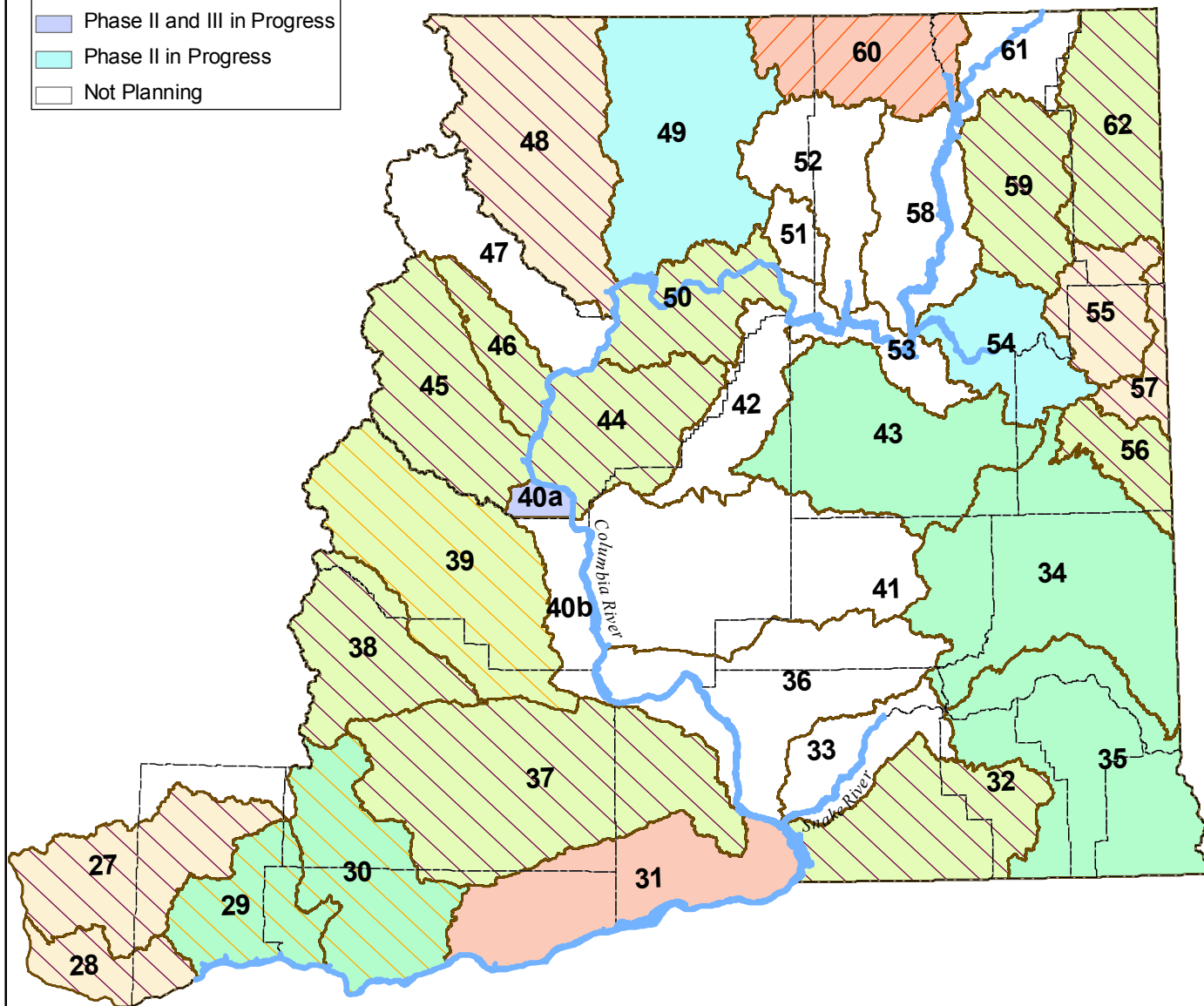


#### NOTES

KCFS Thousand Cubic Feet Per Second  
 WY Water Year  
 ISF Instream Flow  
 BiOp 2004 Biological Opinion

FIGURE **3-7**  
**MINIMUM DAILY OUTFLOWS  
 AND FLOW TARGETS FOR PRIEST  
 RAPIDS, McNARY, AND BONNEVILLE DAMS**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

- Planning Status**
- Phase IV in Progress
  - Phase III Complete
  - Phase III in Progress
  - Phase II Complete
  - Phase II and III in Progress
  - Phase II in Progress
  - Not Planning



Note:  
 \* See Table 3-9 for more detail.  
 \* Phase I is organization and scope.  
 \* Phase II is assessment.  
 \* Phase III is planning.  
 \* Phase IV is implementation plan and projects.

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

**LEGEND**

- County Boundary
- WRIA Boundary
- Planning Discontinued
- Approved by Planning Unit
- Approved by County

30 0 30  
 Scale in Miles

Map Projection:  
 UTM Zone 11, NAD 83

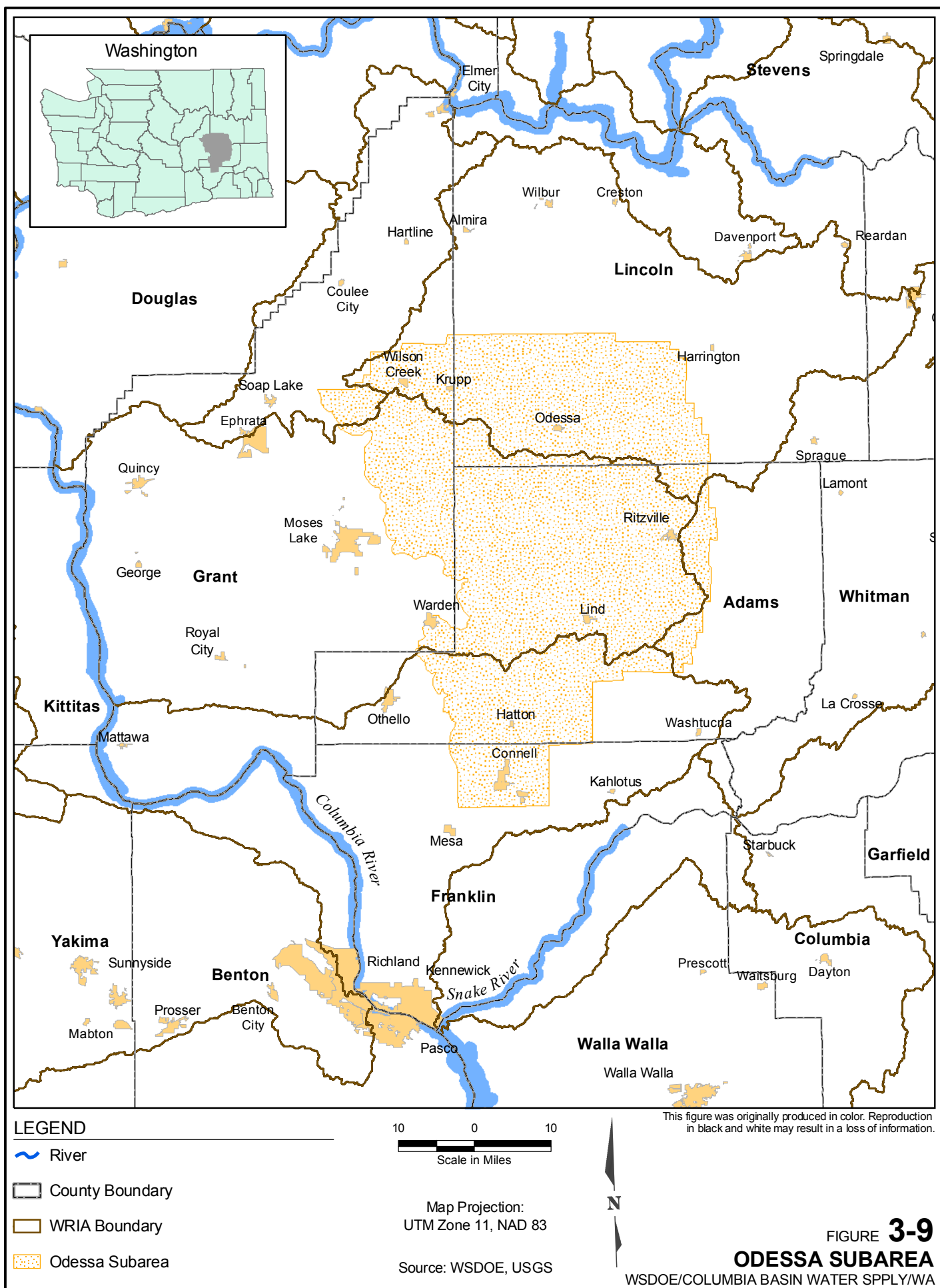
Source: WSDOE



**FIGURE 3-8**  
**STATUS OF WATERSHED**  
**PLANNING IN THE**  
**COLUMBIA BASIN**

WSDOE/COLUMBIA BASIN WATER SPPLY/WA





## **APPENDIX B**

### **Chapter 3 Appendix**

**TABLE OF CONTENTS**

B.1.	OTHER STATE AGENCY PROGRAMS	B-1
B.1.1	Washington Department of Fish and Wildlife (WDFW)	B-1
B.1.2	Washington State Conservation Commission (WSCC)	B-2
B.1.3	Washington Department of Community Trade and Economic Development (CTED)	B-4

**LIST OF TABLES**

Table B-1	Columbia Basin Land Cover Characteristics by WRIA
-----------	---

## **B.1. OTHER STATE AGENCY PROGRAMS**

### **B.1.1 Washington Department of Fish and Wildlife (WDFW)**

The Washington Department of Fish and Wildlife (WDFW) serves Washington's citizens by protecting, restoring, and enhancing fish and wildlife and their habitats, while providing sustainable fish and wildlife related recreational and commercial opportunities. It is WDFW's goal to maintain healthy, diverse, and self-sustaining fish and wildlife populations and properly functioning habitats. One approach WDFW employs to accomplish this is to work with other resource management entities to identify where habitat protection can occur most effectively and efficiently. WDFW provides technical review and assistance as well as access to information and management recommendations to assist others in protecting and restoring fish, wildlife, and their habitats.

In the Columbia River Basin, achieving the goal to preserve and enhance fish and wildlife resources is challenging because of competition for scarce water resources. In the debate over conflicting needs, providing water for fish and wildlife is perceived as competing with beneficial uses of water for people. Through the Columbia River Water Management Bill (E2SHB 2860), the legislature prioritized the development of new water supplies, which include storage and conservation, in order to meet the economic and community development needs of people and the instream flow needs of fish. In doing so, an atmosphere of conflict was replaced by a framework of cooperation to facilitate meeting both instream and out-of-stream water needs. WDFW is playing a constructive role in implementing that framework.

Washington Department of Fish and Wildlife has played an essential role in introducing science into the debate about water resource management in the Columbia River Basin. WDFW participated in discussions that led to the 2006 legislation, and the agency continues to play a unique role as the Columbia River Water Resource Management Program is implemented.

First, WDFW was invited by Ecology to participate in their program Implementation Team. This unprecedented interagency approach means that WDFW contributes its fish and wildlife perspectives early and often as the program's key policy questions are defined and discussed. WDFW joins other agencies and key stakeholders on the Columbia River Water Resources Policy Advisory Group – a forum designed to build understanding of one another's perspectives and provide advice to Ecology on Program implementation issues. Participation on this group allows WDFW the opportunity to share our perspectives and values for fish and wildlife, to understand the perspectives of other stakeholders, and to help identify areas of common interest.

In addition, WDFW participates in review of voluntary regional agreements, dedicates staff to suggest appropriate mitigation measures to offset negative impacts to fish and wildlife from permits issued for new water rights, lends our instream flow expertise in the development and annual update of the Columbia River water supply inventory, and identifies benefits and costs to fish and wildlife associated with various policy alternatives.

The CRWRP is offering solutions to problems that have also been identified in local watershed planning and salmon recovery efforts. It will be important, as this program unfolds, to ensure harmonization among watershed plan, CRWRP, and salmon recovery plan implementation so that funding is directed at projects meeting the broadest possible range of needs.

WDFW is currently conducting research for Ecology that analyzes fish and wildlife impacts and benefits associated with each of three feed route alternatives being proposed by USBOR for getting water from

Billy Clapp Lake to Potholes Reservoir. Once a preferred route is selected, a detailed analysis of fish and wildlife impacts will be conducted to assess resource benefits and costs associated with the proposal. WDFW will also provide technical assistance in design of the mitigation strategy and development of a management plan for the system.

Pursuant to a related 2006 session bill, E2SSB 6581, WDFW is working with Ecology, USFWS, and other interested parties to study instream flows in the Hanford Reach of the Columbia River and their impact on the ecological condition of the Reach, especially as it relates to the needs of salmon and steelhead in that stretch of the river.

In Lake Roosevelt, WDFW and tribal partners are conducting fisheries evaluation studies that will help determine both the potential resource impacts from additional drawdown of Lake Roosevelt and the appropriate enhancement projects to mitigate those impacts. One species that would be impacted is kokanee (land-locked sockeye salmon) – a relatively abundant species that supports both tribal and non-tribal recreational fisheries. Drawdown could impact kokanee production in the lake. DFW is monitoring and evaluating the immigration of kokanee into Lake Roosevelt from Canadian waters in order to better estimate population losses due to reservoir drawdown. This evaluation will also be instrumental in determining the appropriate types of enhancement for mitigation of the drawdown impacts.

Finally, implementation of the legislation requires WDFW participation in feasibility studies related to off-mainstem storage projects. Contribution to feasibility studies involves conduct of field reconnaissance and compilation of agency data on fish and wildlife resources at the sites, estimation of likely impacts to fish and wildlife resources and to recreational opportunities, development of potential mitigation scenarios, development and review of environmental assessment documents, and providing agency representation in work groups, review processes, and public forums. WDFW's early participation in the site selection and scoping process means that the breadth of impacts, costs, and alternatives for potential mitigation measures can become integral to the overall project description. When new storage comes on-line, WDFW will work with Ecology and others to manage instream water releases to maximize benefits to salmon and steelhead populations and other fish and wildlife.

WDFW's participation in the CRWRP ensures that decisions are made with eyes wide open to the costs and benefits to fish and wildlife and their habitats, and also ensures that the state can fulfill its goal of no net loss of these important natural resources.

### **B.1.2 Washington State Conservation Commission (WSCC)**

The Washington State Conservation Commission was created in 1939 through passage of the Conservation Districts Law (Chapter 89.08 RCW). The Conservation Commission exists to assist and guide conservation districts. The Conservation Commission manages multiple conservation programs, two of which may affect irrigated agriculture or water demands in the Columbia River Basin in Washington State. Those programs are the Conservation Reserve Enhancement Program (CREP) and the Irrigation Efficiencies Program.

#### **Conservation Reserve Enhancement Program**

The Conservation Reserve Enhancement Program (CREP) is a voluntary land retirement program that helps agricultural producers protect environmentally sensitive land, decrease erosion, restore wildlife habitat, and safeguard ground and surface water.

The program is a partnership among producers; tribal, state, and federal governments; and, in some cases, private groups. CREP is an offshoot of the Conservation Reserve Program (CRP). Like CRP, CREP is administered by the FSA. By combining CRP resources with state, tribal, and private programs, CREP provides farmers and ranchers with a sound financial package for conserving and enhancing the natural resources of farms.

CREP addresses high-priority conservation issues of both local and national significance, such as impacts to water supplies, loss of critical habitat for threatened and endangered wildlife species, soil erosion, and reduced habitat for fish populations such as salmon. CREP is a community-based, results-oriented effort centered on local participation and leadership.

Enrollment in a state is limited to specific geographic areas and practices. Like CRP, CREP contracts require a 10- to 15-year commitment to keep lands out of agricultural production. The program provides payments to participants who offer eligible land. A federal annual rental rate, including an FSA state committee-determined maintenance incentive payment, is offered, plus cost-share of up to 50 percent of the eligible costs to install the practice. Further, the program generally offers a sign-up incentive for participants to install specific practices.

FSA uses CRP funding to pay a percentage of the program's cost, while state, tribal governments, or other non-federal sources provide the balance of the funds. States and private groups involved in the effort may also provide technical support and other in-kind services.

CREP supports increased conservation practices such as filter strips and forested buffers. These conservation practices help protect streams, lakes, and rivers from sedimentation and agricultural runoff. CREP also helps landowners develop and restore wetlands through the planting of appropriate groundcover.

WSCC partners with the federal government for the state's CREP program, paying 20% of compensation provided under the program. The 2005 annual report from the Washington Farm Service Agency states that the CREP program in Washington in FY2005 paid \$1,562,667 on 577 contracts for protecting salmon habitat and planting 567 miles of stream banks with buffers. Those contracts are state-wide and no information on the acreage within the CREP and the Columbia River Basin was found.

### **Irrigation Efficiencies Grants Program (IEGP)**

The Irrigation Efficiencies Grants Program (IEGP) helps private landowners partner with local conservation districts to save water and aid in salmon recovery. By implementing best management practices to increase the efficiency of on-farm water application and conveyance systems, the IEGP converts conservation water savings into beneficial instream flows in tributaries where listed salmonid species will benefit from more consistent and persistent water flows.

The IEGP is administered by the WSCC through a contracted partnership with the Washington State Department of Ecology. There are ten conservation districts in fish critical basins throughout the state participating in the Irrigation Efficiencies Program. Conservation districts receiving funds manage each grant to ensure that a portion of the water saved by the water conservation measure or irrigation efficiency will be placed as a purchase or lease into the Trust Water Program (TWP) to enhance instream flows. The Department of Ecology has allocated \$3.5 million for the 2005-2007 biennium for this program.

### **B.1.3 Washington Department of Community Trade and Economic Development (CTED)**

The Washington Department of Community Trade and Economic Development (CTED) connects local jurisdictions, public utilities, ports and other entities to assistance, funding and tools to help local community plan and grow. The programs offered include infrastructure financing, growth management guidance, emerging energy technologies, economic development assistance and related programs. Several CTED programs are relevant to water supply and demand issues in the Columbia River Basin, and are briefly described below.

#### **B.1.3.1 Washington Public Works Board (PWB)**

The Washington Public Works Board (PWB), a division of CTED, helps communities manage their environmental infrastructure by providing financial and technical assistance for critical public health, safety, and environmental infrastructure. Three important and widely used funding sources are administered or co-administered by the Public Works Board. These include: 1) the Public Works Assistance Account, which funds all Public Works Trust Fund programs; 2) the Drinking Water State Revolving Fund, which funds all Drinking Water State Revolving Fund Loans, and the 3) the Water System Acquisition and Rehabilitation Program. For 2007 the PWB recommended approval of \$25M in construction loans for cities and counties located within the Columbia River Basin.

#### **B.1.3.2 Public Works Trust Fund (PWTF)**

The PWTF Construction Loan program is available to cities and towns, counties and Special Purpose Districts. Systems that may be considered for funding include road, sanitary sewer, domestic water, bridge, storm sewer, and solid waste / recycling. Eligible activities include repair, replacement, rehabilitation, reconstruction and improvement of eligible public work systems to meet current standards for existing users, and may include reasonable growth (this is generally the twenty-year growth projection included in the local government comprehensive plan under the Growth Management Act (GMA)).

#### **B.1.3.3 Drinking Water State Revolving Fund (DWSRF)**

Created by Congressional reauthorization of the Safe Drinking Water Act, the DWSRF Loan Program is jointly administered by the Public Works Board and the Washington State Department of Health (DOH), Drinking Water Division. DOH determines the eligibility and priority ranks each project. PWB staff determines the ability to proceed, environmental impact, and ability to repay the loan. The program is intended to improve drinking water systems and protect public health and is designed for both publicly and privately owned systems.

#### **B.1.3.4 Water System Acquisition and Rehabilitation Program (WSARP)**

WSARP helps local governments maintain safe, reliable drinking water systems throughout the state. Grants ranging up to \$500,000 may be used to pay for a portion of planning, design, and other pre-construction activities; system acquisition; and capital construction costs. Applicants with sound drinking water utility management that own at least one municipal Group A public water system may be eligible for funding. The state Department of Health, the Public Works Board, and the Department of Community, Trade and Economic Development jointly administer the program.

The 2005 Legislature committed two million dollars to help municipal water systems acquire and rehabilitate other public water systems that have water quality problems or have been allowed to deteriorate to a point where public health is an issue. It was the second Legislative appropriation. In 2003 the Legislature committed four million dollars.

In December 2005 the Public Works Board approved about \$950,000 in funding for two projects located within the Columbia River Basin.

### **B.1.3.5 Community Economic Revitalization Board**

The Community Economic Revitalization Board (CERB) is the state's only economic development infrastructure program. It supports business and industrial job growth in partnership primarily with rural communities. CERB provides local governments low-interest loans and sometimes grants to help finance public facility projects needed for private sector expansion and job creation.

The CERB Rural Natural Resources/Rural Counties Program is for communities in designated timber or commercial salmon harvesting impacted areas and rural counties. CERB provides loans or, in unique circumstances, grants for new infrastructure projects to support potential industrial or tourism projects, and improve economic development and diversification projects.

Eligible applicants are counties, cities, towns, special purpose districts (e.g., PUDs), port districts, and municipal corporations and quasi-municipal corporations providing for economic development purposes within the designated Rural Natural Resource and Rural Counties. Of the 24 counties located within the Columbia River Basin, 22 meet the population requirement for rural designation.

A maximum of \$1,000,000 can be loaned for infrastructure projects to support industrial development; for tourism projects, a maximum of \$250,000 is available. A local match of at least 25 percent of the total CERB request is targeted. All projects must be part of an economic development plan consistent with state planning requirements and must demonstrate strong community support.



## **TABLES**

**Table B-1.** Columbia Basin Land Cover Characteristics by WRIA<sup>1</sup>

WRIA No. & Name	Irrigated Agriculture (acres)		Non-Irrigated Ag. <sup>3</sup> (acres)	Low Intensity Residential (acres)	High Intensity Residential (acres)	Commercial/Industrial/Transportation (acres)	Natural Vegetation <sup>4</sup> (acres)	Wetland <sup>5</sup> (acres)	Barren <sup>6</sup> (acres)	Water <sup>7</sup> (acres)
	Orchard/Vineyard	Other Ag. <sup>2</sup>								
28 Salmon-Washougal	1,607	44,789	1,122	28,584	110	11,693	206,272	1,667	5,861	15,106
29 Wind-White Salmon	3,487	7,926	773	1,118	0	1,617	495,400	800	53,766	12,119
30 Klickitat	171	20,819	41,490	2,017	1	2,738	791,660	860	52,053	11,198
31 Rock-Glade	0	96,207	338,011	11,744	72	7,064	563,253	277	1,154	41,137
32 Walla Walla	6,115	69,004	481,086	9,168	50	6,223	323,439	114	1,108	11,615
33 Lower Snake	3,984	41,318	149,014	760	1	2,545	249,997	128	142	14,708
34 Palouse	0	15,043	1,107,590	6,431	89	16,542	599,336	6,115	424	14,176
35 Middle Snake	0	9,028	472,604	4,335	0	3,817	915,659	87	13,465	21,365
36 Esquatzel Coulee	7,381	335,443	274,694	8,997	127	15,885	398,120	1,442	222	16,672
37 Lower Yakima	69,143	156,092	232,763	30,516	410	19,214	1,338,266	4,071	5,715	6,505
38 Naches	16,404	7,618	6,841	2,735	4	1,586	613,840	440	50,058	7,565
39 Upper Yakima	8,181	67,311	38,133	7,249	24	10,092	1,139,068	1,114	78,823	19,065
40 Alkali-Squilchuck	4,771	1,758	0	3,643	45	8,469	498,707	201	1,523	20,107
41 Lower Crab	6,234	288,518	541,777	9,529	43	27,065	691,149	10,080	1,231	46,137

See notes at end of table.

Table B-1

WRIA No. & Name	Irrigated Agriculture (acres)		Non-Irrigated Ag. <sup>3</sup> (acres)	Low Intensity Residential (acres)	High Intensity Residential (acres)	Commercial/Industrial/Transportation (acres)	Natural Vegetation <sup>4</sup> (acres)	Wetland <sup>5</sup> (acres)	Barren <sup>6</sup> (acres)	Water <sup>7</sup> (acres)
	Orchard/Vineyard	Other Ag. <sup>2</sup>								
42 Grand Coulee	2,523	11,148	162,110	2,260	1	4,400	267,428	129	166	34,037
43 Upper Crab-Wilson	0	15,726	625,551	1,812	0	10,026	522,307	3,603	262	6,303
44 Moses Coulee	15,411	1,725	290,865	2,763	15	3,942	407,427	22	352	7,338
45 Wenatchee	13,902	1,009	267	3,943	85	2,974	780,481	1,482	60,756	13,358
46 Entiat	2,050	23	0	219	0	372	287,722	85	11,871	3,333
47 Chelan	10,421	72	0	1,003	1	627	553,311	114	55,981	46,330
48 Methow	6,004	3,617	1,407	720	0	2,261	1,292,034	725	51,476	6,926
49 Okanogan	33,393	37,162	3,274	1,908	3	8,172	1,204,524	1,470	25,225	25,937
50 Foster Creek	3,355	11,052	122,291	824	1	2,513	419,389	185	1,286	16,199
51 Nespelem	0	3,730	98	206	0	270	138,084	120	852	800
52 Sanpoil	79	4,846	756	761	0	622	575,522	242	41,958	3,243
53 Lower Lake Roosevelt	144	1,688	67,499	915	0	1,883	226,273	172	2,002	25,741
54 Lower Spokane	1	21,035	122,241	10,053	86	7,204	376,643	351	14,908	13,593
55 Little Spokane	4	59,242	41,736	12,714	102	6,234	283,800	1,046	24,661	3,741
56 Hangman	1	8,487	173,091	6,416	118	5,548	95,288	333	595	1,058

See notes at end of table.

Table B-1

WRIA No. & Name	Irrigated Agriculture (acres)		Non-Irrigated Ag. <sup>3</sup> (acres)	Low Intensity Residential (acres)	High Intensity Residential (acres)	Commercial/Industrial/Transportation (acres)	Natural Vegetation <sup>4</sup> (acres)	Wetland <sup>5</sup> (acres)	Barren <sup>6</sup> (acres)	Water <sup>7</sup> (acres)
	Orchard/Vineyard	Other Ag. <sup>2</sup>								
57 Middle Spokane	4,707	15,345	11,862	21,683	258	7,587	113,037	308	5,743	2,812
58 Middle Lake Roosevelt	2	22,290	8,966	932	0	1,365	599,723	651	34,294	38,733
59 Colville	20	47,520	16,101	4,507	0	2,119	534,434	1,628	39,944	5,199
60 Kettle	9	15,778	2,422	491	0	743	599,662	84	32,615	3,732
61 Upper Lake Roosevelt	0	7,184	1,452	1,059	0	826	324,155	94	20,885	12,607
62 Pend Oreille	2	21,110	20	1,302	0	1,405	690,377	1,061	56,345	17,453
<b>Totals<sup>8</sup></b>	1,690,169		5,337,907	203,315	1,649	205,647	19,115,788	41,300	747,721	545,951

**NOTES**

Abbreviations: Ag: Agriculture

<sup>1</sup>Information based on the Washington Land Cover Dataset (USGS, 1999) that used 1992 land cover data.

<sup>2</sup>Includes pasture/hay, row crops and urban/recreational grasses.

<sup>3</sup>Includes small grains and fallow.

<sup>4</sup>Includes deciduous forest, evergreen, mixed forest, shrubland and grasslands/herbaceous.

<sup>5</sup>Includes woody wetlands and emergent herbaceous wetlands.

<sup>6</sup>Includes bare rock/sand/clay, quarries/strip mines/gravel pits and transitional.

<sup>7</sup>Includes open water and perennial ice/snow.

<sup>8</sup>Totals may not match totals by county in Table 3-3 because the county and WRIA boundaries do not match – the county boundaries extend farther west than the WRIA boundaries. The total land cover for each WRIA is a better representation of the total land cover by type within the Columbia Basin study area than the county totals.

See notes at end of table.

Table B-1

## CHAPTER 4: WATER SUPPLY INVENTORY

### 4.1 Introduction

This Chapter presents the results of the inventory requirements of ESSHB 2860. It includes a combination of information specifically required under ESSHB and some related inventory information not presented in Chapter 3. The inventory was compiled using existing documents and primary data from multiple sources. Table 4-1 summarizes the sources of information used for the inventory. In some cases, documents were identified but unavailable due to the short timeframe required for completion of this first legislative report.

#### 4.1.1 Overview and Components of the Inventory

The options for allocating water rights from the Columbia River system under ESSHB 2860 focus on ways to allocate conservation savings (attributable to consumptive portion of the total savings) and new and existing storage (surface and ground water storage). Section 5 of ESSHB 2860 defines the required elements of the water supply inventory as:

- A list of conservation projects that have been implemented under this Chapter and the amount of water conservation achieved; and
- A list of potential water supply and storage projects in the Columbia Basin, including:
  - Cost per acre-foot;
  - Benefit to fish and other instream uses;
  - Benefit to out-of-stream uses; and
  - Environmental and cultural impacts.

Section 6 of ESSHB 2860 describes information requirements for a Columbia River mainstem water information system that includes:

- Total aggregate quantity of water rights issued under state permits and certificates, and filed under state claims on the Columbia River mainstem and for ground water within one mile of the mainstem; and
- Total volume of current water use under these rights as metered and reported by water users.

The water supply inventory described in this section of the report combines the information requirements under Sections 5 and 6 of ESSHB 2860. The information associated with these sections of the Bill will be updated annually.

To date, no conservation projects have been implemented under this chapter of the Bill. Therefore, this report provides an inventory of potential conservation projects and potential storage projects. Similarly, the short time-frame in which this report was prepared limited the ability to conduct a survey of water rights and water use. Existing data on water rights and water use from agency databases has been compiled and presented here with minimal confirmation and no field verification.

Conclusions based on this information should be carefully considered. Chapter 5 provides further discussion of the use of these data for forecasting and analysis.

#### 4.1.2 Organization of this Chapter

This Chapter contains sections, which are organized in pairs to present relevant

background information, followed by the results of the respective inventories:

- Section 4.2 contains an overview of water conservation generally, including relevant information compiled from the sources described in Table 4-1.
- Section 4.3 contains the results of the Conservation Inventory, in conformance with Section 5 of ESSHB 2860.
- Section 4.4 contains an overview of water storage generally, including relevant information compiled from the sources described in Table 4-1.
- Section 4.5 contains the water storage inventory, in conformance with Section 5 of ESSHB 2860.
- Section 4.6 contains an overview of water rights generally, including a discussion of some important aspects that are relevant to the Columbia River Water Management Program.
- Section 4.7 contains the water rights inventory, in conformance with Section 6 of ESSHB 2860.
- Section 4.8 contains an overview of water use generally.
- Section 4.9 contains the water use inventory, in conformance with Section 6 of ESSHB 2860.

## 4.2 Water Conservation Overview

There are many water conservation strategies that are, or can be, applied to the different water use types in the Columbia Basin system. Conservation is not achieved quickly, and is generally considered a long-term management approach to reducing the total water demand over time. Successful implementation of conservation strategies can result in eventual savings that are realized in the Columbia River.

These realized savings could improve streamflows in the Columbia River or they could be allocated for additional out-of-stream beneficial use. Not all conservation projects will result in an immediate savings in the Columbia River. The savings that “accrue” to the river will depend on a number of factors, including:

- the distance between the point of savings and the river, which creates a time lag;
- the dynamics of natural recharge and other return flows to the river, which complicates the analysis of conservation savings; and
- the ability to quantify and monitor consumptive versus non-consumptive water savings.

Conservation measures are applied to agricultural practices (both on-farm and to conveyance facilities), to municipal and domestic water use, and to industry. So while conservation has spatial and temporal complexities that require consideration when evaluating benefits to the Columbia River, compared to the long-term storage options considered under the Management Program, conservation is expected to yield more rapid benefits to instream flows and the potential for permits for out-of-stream demand.

### 4.2.1 Agricultural Production

Growers in arid parts of Eastern Washington, northeastern Oregon, and southern Idaho rely on Columbia Basin water to produce wheat, corn, potatoes, peas, alfalfa, apples, grapes, and a large variety of other grains, fruits, and vegetables. Diversions for agriculture typically occur between April and October while municipal and domestic demands occur year-

round. Water withdrawals typically peak during the summer months when flows are lowest. An inventory and econometric forecast for agricultural production is summarized in Chapter 5.

Approximately one-half of the Columbia Basin Project (CBP)-authorized lands are not yet irrigated, and any water diverted for these new lands in the project area would also be senior to the mainstem instream flow rights. The Bureau of Reclamation is authorized to deliver up to 3,158,000 acre-feet of water per year at full build out of the CBP.

## 4.2.2 Agricultural Water Conservation

Water conservation activities in irrigated agriculture have been ongoing in Washington State in response to droughts and water supply shortages as well as to modernize irrigation facilities, reduce energy use, improve water quality and provide better management of water both in irrigation system facilities and on-farm.

Relatively small changes in agricultural demand can yield large quantities of water. The types of agricultural water conservation activities typically used in the Columbia Basin are summarized below. This list of activities was used in surveys of irrigation districts and conservation districts to determine where potential future water savings may occur with additional funding.

- **Lining/Piping:** The conversion of open-ditch water conveyance delivery systems to a more efficient delivery pipe or the placement of an impermeable liner within a ditch.
- **On-Farm Efficiency:** The installation of a more efficient irrigation application system. Examples would include a conversion from flood or rill/furrow irrigation to center pivot technology. Also, the replacement of hand-lines or less efficient sprinkler systems to drip irrigation.
- **Management:** The application of a system of managing water applications that creates water savings through scheduling changes or other management practices. Irrigation Water Management (IWM) is an example of a management tool that may create water savings. Canal automation is another example.
- **Fallowing Corners:** Occurs when a center pivot with a round irrigation pattern is installed on a square(ish) field and the landowner decides to fallow the corners in lieu of irrigating them by some other method.
- **Acquisition:** The selling of whole or partial water right to state or federal agencies or to private conservation organizations. A landowner decides to permanently fallow a previously irrigated field or portion thereof.
- **Tail Water Reuse:** The capturing and reuse of tail water from a field or conveyance system rather than returning it back to the stream.
- **Re-regulating/Storage Reservoirs:** The installation of a reservoir to store fluctuations in canal flow for release at a later time, reducing the amount of water spilled at the end of a system. Also includes the installation of a reservoir to store water during high streamflow periods for use later in the season during low streamflow periods.
- **Permanent Crop Change:** A permanent change in a crop grown on a field to one with a smaller irrigation requirement. A change from tree fruit or alfalfa to grapes would be an example.
- **Split-Season Acquisition:** When a farmer voluntarily forgoes mid to late season

irrigation. An example is when a hay farmer decides to harvest only the first cutting of hay and forgo the rest of the season through a lease or contractual agreement.

- **Land Conservation Program:** A riparian or upland conservation program that removes irrigated land from production for some state or federal conservation program purposes. Conservation Reserve Enhancement Program (CREP) and Conservation Reserve Program (CRP) are potential examples where irrigated agriculture may have been fallowed or put to use for some other conservation practice that does not require irrigation.
- **Power Buyback:** Where formerly irrigated lands have been voluntarily fallowed in a contractual agreement with an electrical power provider. This occurred in the 2001 drought.
- **Surface to Ground Water Conversion:** When a well is drilled to be used as a primary source for a water right that was previously served from a surface water source. Water savings may accrue from a reduction in canal seepage. This technique may be used in some areas to mitigate for low instream flows.

Gravity surface water diversions are usually the least efficient means of distributing water to irrigators because of the long lengths of canal between the diversions and the leaky nature of canals. Canal efficiencies in Washington State have a wide range; from very efficient (around 90%) to very inefficient (about 20% of the water diverted is delivered to irrigators). Water that is saved as a result of improvements to irrigation facilities (lining, piping, improved management, regulation reservoirs) results in a reduced diversion and increased streamflow at the point of diversion. However much of the water that leaks or spills from canals usually returns to the

river system from which it was diverted through direct discharges of spills and ground water return flow. That return flow enters the river system downstream of the original point of diversion. The reduced diversion provides a benefit as flow in the river increases from the original point of diversion to where the return flow reenters the river system. The timing of ground water return flow to the river is not immediate and may be delayed for a short period (days to months) depending on the location of the canal relative to the river and the geology of the aquifer. Leaks from canal systems also often feed ground water aquifers from which other irrigators or water users pump.

Improvements to on-farm irrigation practices have also been demonstrated to save a large quantity of water. Crop irrigation requirements typically range from 2.5 to 4 acre-feet/acre in the Columbia River Basin and irrigation efficiencies range from around 50% for some furrow irrigated lands to over 95% for some of the newest micro irrigation practices (Ecology, 2005). A reduction in on-farm use by improving irrigation efficiencies will have the same impacts as discussed for canal system improvements: a reduction in seepage, which reduces diversions and increases streamflow except when the seepage returns to the river from which it was diverted.

#### **4.2.3 Return Flow from Water Conservation Projects**

The timing of return flow resulting from canal or on-farm seepage is important when reviewing the effect of water conservation projects and determining the project benefits. An example



where return flow is an important component of water supply for others is in the Yakima Project. The Bureau of Reclamation has studied return flow characteristics of water lost through seepage from canals and farms and spills from canals as part of the Yakima Project. They determined that about one-half of the water diverted for irrigation returns to the Yakima River through seepage and return flow. Of that water one-half returned within one month. The lag time for the remainder was two months (EES, 2000).

In reviewing the effect of water conservation measures in the Columbia River Basin, the timing of return flow is also important. The timing of the return flows will be variable and will need to be reviewed on a case-by-case basis. If it takes a long time for seepage water to return to the Columbia River, then water conservation measures may result in an improvement in flows during the irrigation season through reduced diversion but may cause a reduction in flows in the late fall. The reduction in the fall is because seepage water that would otherwise return at that time has been conserved. Credit for the reduced diversions during July and August should consider this time lag.

#### **4.2.4 Change in Consumptive Use from Water Conservation Projects**

Water is used consumptively in irrigation distribution systems through evaporation from open canals and drains and evapotranspiration (ET) from vegetation growing along canal banks. It is difficult to separate seepage losses from evaporation and ET losses in canal systems but generally the evaporation and ET losses are

much less than seepage losses. Evaporation losses are usually calculated using pan evaporation data for the area and multiplying by the surface area of the water in the canal. ET losses are usually calculated by measuring the area of vegetation and multiplying by a crop irrigation requirement for the vegetation found growing along the canals. The evaporation and ET losses from open canals are usually less than 5% of the total amount of water diverted.

Water is used consumptively in irrigating crops through evapotranspiration and can be consumed through evaporation of water sprayed into the air (spray evaporative loss), evaporation off the plant canopy (canopy loss) and it can blow off the irrigated property (wind drift) (Ecology, 2005). Ecology has published guidance on determining irrigation efficiency and crop consumptive use (Ecology, 2005) which is the source of the information contained in this section.

Evapotranspiration can be calculated using many different methods or derived from services that provide real-time crop consumptive use estimates (such as AgriMet and PAWS). Spray evaporative losses depend on the type and configuration of sprinkler system, climatic and wind conditions. Smaller losses (0-2%) occur when using sprinklers lower to the ground during low wind conditions while losses from high overhead sprinklers during high wind periods can exceed 10% (Ecology, 2005). Canopy loss varies based upon crop type, crop leaf area, crop growth stage, and method of irrigation. The net increase in evaporative loss

is estimated to be in the range of 3-5% for typical conditions.

Wind drift causes water to drift out of the area it is being applied to. If water drifts out of the property, it is considered to be consumed. If it falls into another part of the field, then it may slightly increase canopy loss. The net consumptive magnitude of wind drift under most conditions is a few percent (Ecology, 2005).

The Ecology guidance presents estimates of the percentage of total evaporative losses and return flow for various irrigation methods. Table 4-2 summarizes that information. It also presents examples of how to use the table to determine the consumptive use benefits of a water conservation project.

#### **4.2.5 Municipal Water Conservation**

##### **4.2.5.1 Municipal Water Law**

The Municipal Water Supply - Efficiency Requirements Act Chapter 5, Laws of 2003 provides greater certainty and flexibility for water rights held by public utilities, and more closely ties water system planning and engineering approvals by the Washington Department of Health (DOH) to water rights administered by the state Department of Ecology (Ecology). Commonly called the “Municipal Water Law,” the act requires the DOH to change many of the processes and procedures it uses to approve water system plans. These changes affect the DOH’s water system planning process and provide some unique benefits (including greater water right flexibility and certainty) to many water utilities. There are several areas

where the Municipal Water Bill is relevant to the Columbia River Water Management Program.

Table 4-3 summarizes some of the conservation-related components of the new law

([http://www5.doh.wa.gov/ehp/dw/municipal\\_water/municipal\\_water\\_law.htm](http://www5.doh.wa.gov/ehp/dw/municipal_water/municipal_water_law.htm)).

- Chapter 90.03.015(3) and (4) RCW - Municipal water supplier definition. Provides the definition of a municipal water supplier and establishes municipal water supply purposes.
- Chapter RCW 90.03.260(4) and (5) RCW - Water right connection/population limitations. Clarifies the state’s Water Code by stating that the number of water service connections and population are not limiting attributes of water rights for water systems that have a DOH approved water system plan (WSP) or other approval that specifies the number of connections.
- Chapter 90.03.386(1) RCW - Plan Review Coordination between DOH and Ecology. Amends the state’s Water Code directing DOH and Ecology to coordinate WSP approval procedures with water right determination procedures for both WSP and small water system management programs (SWSMP).
- Chapter 90.03.386(2) RCW - Service Area Consistency. Allows a municipal water supplier to expand the place of use on its water right to all areas included within the service area described in its approved WSP or SWSMP. This benefit is provided if the water right holder is in compliance with the terms of its WSP and the service area is consistent with applicable approved comprehensive plans, land use plans, development regulations, coordinated water system plans and watershed plans. A utility’s place of use is not reduced if the service area identified in an approved WSP or SWSMP is smaller than the place of use identified in the water right.

- Chapter 90.03.386(3) RCW - Conservation requirements for systems with 1,000 or more connections. Provides direction on conservation to water systems with 1,000 or more connections. This includes reporting the conservation measures the utility has put into practice in the past and how those measures have increased its water use efficiency. It also directs water systems that are using inchoate portions of a water right certificate to describe how they could delay the use of the inchoate water rights through additional cost-effective conservation measures. "Inchoate" water rights are the portion of a water right permit that has not been "perfected" (put to beneficial use).
- Chapter 70.119A.180 RCW - Current conservation programs and the conservation rule. Directs DOH to develop water conservation rules by the end of 2005 and to involve key stakeholders in the process. It also directs municipal water suppliers to continue to meet current conservation planning requirements and continue implementing their current programs.
- Chapter 43.20.260 RCW - Local government consistency and duty to serve. Requires new services within a water system's service area to be consistent with applicable approved local land use plans, comprehensive plans, and development regulations. Water utilities must delineate retail service areas in their WSP. Water systems with DOH approved WSPs now have a duty to provide service to new connections within their retail service area.
- Chapter 90.46.120(3) RCW - Reclaimed Water. Requires systems serving 1,000 connections or more to evaluate reclaimed water opportunities.

Depending on the type of conservation and efficiency practices in a given municipality, water savings may yield either consumptive savings or reduce return flows. For example, efficiency practices that reduce pipe leakage

would reduce return flow, whereas practices such as lot size or lawn watering restrictions could serve to reduce both consumptive use and return flow.

#### **4.2.6 Reclaimed Water**

"Reclaimed water" is defined as effluent derived in any part from sewage from a wastewater treatment system that has been adequately and reliably treated, so that as a result of that treatment, it is suitable for a beneficial use or a controlled use that would not otherwise occur and is no longer considered wastewater (Ecology, 1998). Reclaimed water is an important water resource that can support multiple seasonal and year-round uses including streamflow augmentation, irrigation, wetlands creation or enhancement, industrial water supply, ground water infiltration and other applications.

The Washington Reclaimed Water Act (90.46 RCW) was approved in 1992 to encourage the development of water reclamation facilities so that reclaimed water could be made available to help meet the growing water needs of the state. The Washington State Water Reclamation and Reuse Standards (Reuse Standards) provide guidelines for water reuse applications (Ecology, 1997). These standards were jointly developed by stakeholders including the DOH, Ecology, the Water Reuse Advisory Committee, interested stakeholders, and a consultant team of nationally recognized water reuse experts.

The Reuse Standards describe allowable, direct, beneficial uses of reclaimed wastewater, and the required level of treatment appropriate for each

use. Achieving reuse standards typically requires treatment and disinfection beyond what most conventional wastewater treatment facilities provide. What differentiates a water reclamation facility from a wastewater treatment facility are the additional treatment and reliability and redundancy features, such as automated alarms, redundant treatment units, and emergency storage. These features ensure that the water is being treated to a level that is suitable for a direct beneficial use.

There are four classes of reclaimed water, A through D, described in the Reuse Standards. Class A requires the “highest” level of treatment. The classes are differentiated by the degree (or absence) of additional treatment provided after secondary treatment. Examples of allowable uses for each reclaimed water class are provided in Table 4-4. Some reclaimed water uses, including ground water infiltration, indirect potable reuse, wetland discharge, and streamflow augmentation, require additional treatment beyond that described for a specific reclaimed water class.

Whether a reclaimed water project would yield consumptive water savings or create additional impacts to waters of the State depends on the historic disposal method of the wastewater. For sprayfield and land application disposal, a new reclaimed water facility could result in “new” water to the system. For historic NPDES wastewater discharges to a river, treating that water to a higher standard would not increase water availability. Every reclaimed water project must consider whether the exclusive

right to reclaimed water afforded in Chapter 90.46 RCW impairs existing water rights.

### **4.3 Water Conservation Inventory Results**

An inventory of potential agricultural and municipal conservation projects is presented below to fulfill Ecology’s obligations as described in Section 5 of the ESSHB 2860. Potential agricultural conservation projects were identified by conservation districts and irrigation districts within the Columbia Basin. About half of the conservation districts participated and together, identified over 5,000 potential conservation projects. Potential municipal conservation projects were identified by reviewing water system plans of the largest municipalities within the Management Zone. It is expected that future inventory reports to the Legislature will include more comprehensive estimates of water conservation savings.

#### **4.3.1 Conservation District Survey**

In July of 2006, Ecology contracted with the Washington State Conservation Commission (the Commission) to assist in identifying conservation projects for the Columbia River Water Supply Inventory (RCW 90.90.040). The Commission implemented this contract by creating the Columbia River Project Inventory Grant Program (Program).

Technical assistance funds under the Program were offered to the conservation districts of central and Eastern Washington whose boundaries included the Columbia River or one of its tributaries. About half of the districts inside the target area requested funds to help

populate an inventory spreadsheet provided to them. Several other districts chose to assist with the inventory using funding from other sources. Together, the participating conservation districts identified over 5,000 water conservation projects despite the short lead time to assess feasibility and apply for funds (about 2 weeks) and the short timeframe (about 1 month) available to collect the desired data.

While the initial screening for this first legislative report generated numerous potential conservation projects that could improve flows and serve as a source of additional supply for the Columbia River, it is expected that future reports will include greater participation by districts.

The inventory spreadsheet distributed to the conservation districts, prepared by Ecology, the Commission and the consultant team is presented in Appendix C. The primary information requested included the type of project, location, estimated water savings, estimated cost, priority of the project by the entity who would implement it, and a description of the project. A summary of the projects is shown in Table 4-5 by County and Table 4-6 presents a summary by project type. Figure 4-1 shows the results of the conservation survey on a map. The entire data inventory is provided in Appendix C.

A total of 5,315 projects were obtained from the conservation districts, and most (5,214) were on-farm conservation projects, 33 are lining/piping projects and the other projects include tailwater reuse, storage, irrigation water management, surface to ground water conversion, water right

purchase projects. An explanation of these types of conservation projects is presented in Section 4.2. The total estimated water savings (consumptive and non-consumptive) are approximately 530,000 acre-feet with a total estimated cost of \$663,000,000. The average cost per acre-foot for the projects is approximately \$1,250.

The costs and water savings presented should be viewed as preliminary and used only to screen or compare projects within the inventory. A more detailed analysis of each set of projects is necessary before assessing the benefits of individual projects to the Columbia River.

#### **4.3.2 Irrigation District Conservation Inventory**

The conservation projects inventory request was also distributed to irrigation districts that are members of the Washington State Water Resources Association (WSWRA) and to other districts by individual contact (Appendix C has a list of the irrigation district and companies). A number of water conservation plans completed by irrigation districts were also obtained and reviewed. From this information, additional projects were identified and added to the water conservation inventory. A summary of the irrigation district projects is shown in Table 4-7 (the entire spreadsheet is provided in Appendix C).

A total of 82 projects or groups of projects within irrigation districts were obtained from the inventory. Most (52) were lining/piping projects, followed by 7 storage/re-regulation reservoir projects, 16 water management

projects and 5 on-farm water conservation projects. Many of the districts inventoried grouped a program of replacing canals or laterals into one project. The total estimated water savings are approximately 425,000 acre-feet with a total estimated cost of \$450,000,000. The average cost per acre-foot for the projects is approximately \$1,100. However, many of the projects had cost estimates prepared 5-10 years ago which means the costs are probably underestimated. They were not updated for this study as more detailed engineering analyses would be needed to accurately estimate costs for the projects. These total estimated costs and water savings should be viewed as being very preliminary and should be used only to screen or compare projects within the inventory. More detailed evaluation of the costs and water savings will be needed before determining the benefits of individual projects.

#### **4.3.3 Municipal/County Conservation Inventory**

Water system plans for the seven largest municipalities in the Columbia Basin were reviewed for current and future water use, demand, and conservation information, including water reuse. Few of these plans provided quantitative information regarding current conservation and reuse. However, water system plans for the City of Chelan and the City of East Wenatchee did provide some information, which is summarized in Table 4-8. An estimated 13 AFY is conserved by the City of Chelan, which is approximately 1% of their total annual water use. The City of East Wenatchee currently conserves approximately 3

AFY, or 0.1% of their total annual water use. The City of Kennewick estimates that 0.10 AFY is conserved through customer conservation measures such as lower pressure shower heads and low flush toilets. The City of Wenatchee hopes to achieve 4% conservation by the year 2008. The entire data inventory is in Appendix C.

It is expected that future inventory reports to the Legislature as required under ESSHB 2860 will include more ambitious and comprehensive estimates of municipal water conservation savings in response to the requirements of the Municipal Water Bill. Municipal water suppliers will be required to set water use efficiency goals through a public process and report annually on their performance to customers and to DOH, and also make it available to the public. Depending on a water system's size, it would be required to evaluate or implement a prescribed number of water efficiency measures. Water systems with 1,000 or more connections would be required to evaluate reuse options.

A summary of reclaimed water projects that have been implemented in Washington is presented in Table 4-8. It includes a description of the project, the class of reclaimed water produced, and the estimated cost per mgd of reclaimed water.

#### **4.4 Water Storage Overview**

##### **4.4.1 Reservoir Storage**

Spring runoff is partially stored in large reservoirs to provide flood control benefits,

hydroelectric power generation, navigation, and water for irrigation and other uses. Water stored in the reservoirs is also used to meet federally mandated flow targets for fish. Fifty-five major dams have been constructed by federal agencies, PUD's, and British Columbia agencies on the Columbia River and its tributaries. Hundreds of smaller impoundments have also been developed. Hydropower projects on the Columbia River mainstem and other storage developments in its tributaries within the entire basin have a total active storage capacity in excess of 46 million acre-feet; one-third of the mean annual flow of the Columbia River at The Dalles, Oregon (Ecology and WDFW, 2004).

Tables 4-9 and 4-10 summarize the total volume of existing federal and non-federal dam storage respectively in the Columbia Basin, as reported in the Washington Department of Ecology Dam Inventory database. Most of these projects have multiple purposes of use and are classified based on the first (primary) field in the database. Figures 4-2 and 4-3 show the distribution of existing storage on a map. Appendix C contains a table of all federal and non-federal dams in the Columbia River Basin (Washington only) including their locations, purpose of use, type, and ownership information. The majority of the storage capacity in the Columbia River Basin is located along the mainstem.

#### **4.4.1.1 Reservoir Operations**

The Columbia River system is operated in a coordinated manner to meet a combination of flood control, fish migration, and power

production needs. Three seasons of system operation exist:

- **September-December:** Reservoirs are operated according to rule curves as volume runoff forecasts are not yet available. The goal is to make sure the reservoirs are at specific elevations by the end of December.
- **January-April:** Reservoirs are operated according to volume runoff forecasts. Water is released from storage (the reservoirs are drafted) during this season.
- **April-September:** Reservoirs are operated to meet flow objectives at Lower Granite Dam on the Snake River and McNary Dam on the Columbia River. Flow objectives are established to enhance the survival of endangered species.

The Biological Opinion (BiOp) for FCRPS operations contained the flow objectives that are an important component of the operations of federal dams. Another constraint to Columbia River system operations besides flow objectives are reservoir operating rules. Each reservoir has specific operating rules that account for flood control volumes, resident fish protection, erosion prevention, recreation, and other uses.

#### **4.4.1.2 Columbia Basin Project**

The Columbia Basin Project (CBP) is an important project for this report because it involves a significant diversion of water that is not used for hydropower and therefore does not stay in the Columbia River. Figure 4-4 shows the location of the project and its primary features. The CBP is a congressionally authorized multipurpose development located in the central part of Washington State. The key structure, Grand Coulee Dam, is on the

mainstem of the Columbia River about 90 miles west of Spokane, Washington. The extensive irrigation works extend southward on the Columbia Plateau 125 miles to the vicinity of Pasco, Washington, where the Snake and Columbia Rivers join.

Principal project features include Grand Coulee Dam, Franklin D. Roosevelt Lake, Grand Coulee Powerplant Complex, switchyards, and a pump-generating plant. Primary irrigation facilities are the Feeder Canal, Banks Lake, the Main, West, and East Low Canals, O'Sullivan Dam, Potholes Reservoir and Potholes Canal. There are over 300 miles of main canals, about 2,000 miles of laterals, and 3,500 miles of drains and wasteways on the project (Bureau of Reclamation, 2006a). The project is authorized to deliver a full water supply to 1,029,000 acres of land previously used only for dry farming or grazing. About 671,000 acres are currently irrigated and further development is on hold.

Irrigation water is pumped from Franklin D. Roosevelt Lake by the Grand Coulee Pump-Generating Plant, adjacent to the reservoir at the left abutment of the dam. The Bureau of Reclamation holds water rights that authorize the storage and use of 6.4 million acre-feet for development of the CBP. The current average annual diversion for the CBP is 2.6 million acre-feet.

All basic irrigation facilities applicable to the three Columbia Basin Irrigation Districts (Quincy-Columbia Basin Irrigation District, East Columbia Basin Irrigation District, and South Columbia Basin Irrigation District) are operated

by the irrigation districts. Irrigation facilities operated as reserved works by the Bureau of Reclamation include Dry Falls Dam, Main Canal through the bifurcation works including Pinto Dam and Billy Clapp Lake, and O'Sullivan Dam, Potholes Reservoir, and Potholes Canal headworks. Grand Coulee Dam, Powerplant, and Pumping Plant, and Banks Lake also are operated by the Bureau of Reclamation as reserved works.

## **4.5 Water Storage Inventory Results**

The water storage inventory was compiled to fulfill part of Section 5 of ESSHB 2860 using storage assessments prepared under watershed planning, the Bureau of Reclamation studies, and the BPA's (2005) loads and resources study. Storage options were split into categories consistent with the Draft Programmatic EIS for the Management Program: new large storage facilities (> 1 million acre-feet), new small storage facilities (< 1 million acre-feet), modification of existing storage facilities, and aquifer storage and recovery (ASR) (Ecology, 2006b). The entire data inventory is provided in Appendix C.

### **4.5.1 Large Storage Opportunities**

A variety of new large storage facilities with a capacity of 1 million acre-feet or more are being considered in the Columbia Basin (Table 4-11). A Pre-Appraisal Report on off-stream storage facilities, prepared for Ecology and the Bureau of Reclamation identified eight potential projects larger than 1 million acre-feet. Four of those sites—Hawk Creek, Foster Creek, Sand Hollow, and Crab Creek—will undergo an appraisal level



evaluation by the Bureau of Reclamation (Ecology and Reclamation, 2005). Appraisal level reports typically include a more detailed environmental assessment that may include benefits to fish and other instream uses, benefits to out-of-stream uses, environmental and cultural impacts, and the potential power and transmission implications of lifting large quantities of water to fill off-stream storage sites. The Bureau of Reclamation is in the process of completing the appraisal level evaluation of Black Rock Reservoir, a 1.3 million acre-foot off-stream reservoir in the Yakima Basin as part of the separate Yakima Basin storage project. The Bureau of has also studied the feasibility of the Wymer Dam and is currently evaluating an additional component that involves pumping water from the Columbia River at the confluence with the Yakima River up to two large irrigation diversions (Sunnyside and Roza canals). The proposed pumpback option is at a pre-appraisal level (Golder, 2006), but would allow more flow from upstream reservoirs and the proposed Wymer Reservoir to be used to meet other flow objectives, including the ability to supply interruptible “junior” water right holders on the Yakima during dry years.

#### **4.5.2 Small Storage Opportunities**

The Pre-Appraisal Report identified three off-site storage projects smaller than 1 million acre-feet, but none of those sites was recommended for further study (Ecology and Reclamation, 2005). Several WRIA plans in the Columbia Basin area have identified numerous small on- and off-stream storage facilities that could be developed (Table 4-12). The largest is Wymer

Dam in the Yakima Basin (174,000 acre-feet).

A number of smaller storage options have been identified by WRIA planning units. Most of the storage facilities identified by WRIA plans have a capacity of less than 1,000 acre-feet and do not have an estimated cost. A more detailed environmental review of the benefits to fish and other instream uses, benefits to out-of-stream uses, and environmental and cultural impacts of a proposed option varies widely between storage assessments. The projects range from conventional dams, to ASR projects, to wetland/floodplain restoration projects that would “hold” water in tributaries for a longer period of time. The cost, benefits, and timeline for these projects are typically not described in the WRIA planning documents, and further evaluation of the projects is necessary to determine whether they are feasible or not.

#### **4.5.3 Modification of Existing Storage Facilities**

Modification of existing storage facilities includes raising the height of existing impoundments (on-channel or off-channel) and operating existing facilities to provide water for additional beneficial uses. Examples of this type of project include the supplemental feed route for Potholes Reservoir and the additional drawdown of Lake Roosevelt (Ecology, 2006b). Both of these activities are modifications of the operation of existing facilities and discussed in the Draft Programmatic EIS.

#### **4.5.4 Aquifer Storage and Recovery**

Aquifer storage and recovery (ASR) projects are not well represented in the storage inventories conducted. The Cities of Walla Walla, Yakima, and Pullman identified ASR in their watershed plans as storage options. Walla Walla is targeting 657 AF of storage. Additional information is needed to determine what Pullman's target could be. Outside of the watershed planning process, the Cities of Kennewick and Yakima have conducted pre-feasibility studies (Aspect Consulting, 2005; Golder, 2001) and other municipalities are likely considering ASR, but have not included it in a watershed plan. It is anticipated that other ASR projects will be identified in future inventory reports.

#### **4.6 Water Rights Overview**

##### **4.6.1 Water Rights**

Prior to enactment of the Surface Water Code in 1917 and the Ground Water Code in 1945, water rights could be acquired by simply putting water to beneficial use, or by posting a notice near the point of diversion, and perhaps filing a copy with the County auditor, and then putting the water to use. The key to preserving pre-code water rights, besides continuing to beneficially use the water through the years, was to file a water right claim under the Claims Registration Act (RCW 90.14.041). The claims registration was first opened in 1974 and again most recently in 1997-1998 (RCW 90.14.068). If a person holding a pre-code water right failed to file a claim to that water, the right was lost. A water right claim is not in and of itself a water right.

The claim preserves whatever right may exist but the final validity of the claim may only be determined in an adjudication by the court (Ecology, 2006b).

Since adoption of the Water Code, in order to receive a new water right, a person must first file an application with Ecology to appropriate waters of the state. Ecology shall issue a permit if it makes the following four findings: (1) the proposed use of water is for a beneficial purpose; (2) there is water available for appropriation; (3) the proposed use would not impair existing water rights; and (4) the proposed use would be in the public interest (RCW 90.03.290) (Ecology, 2006b).

Beneficial uses include such things as stock watering; industrial, commercial, agricultural and domestic use; irrigation; and fish and wildlife maintenance (RCW 90.54.020(1)).

Water availability has both a technical and a legal meaning. Technically, there must be water physically available from the source to meet the uses or needs proposed for the requested quantity of water. Legally, there is water available only if it can be appropriated without impairing existing water rights, either by reducing the quantity available to satisfy those rights, or by reducing the quality of the water available. Once the facilities have been constructed and the water has been put to beneficial use, the water right is said to have been perfected. Ecology then issues a water right certificate for the purpose of use, place of use, point of diversion or withdrawal, period of use, and quantity of water that has been put to

beneficial use (Ecology, 2006b). Water rights can be lost or relinquished if not used.

Water rights are tracked through Ecology's Water Right Tracking System (WRTS) database. The information captured in this database includes the type of water right (surface or ground), the name of the business or person applying for a right or a change to an existing right, the priority date or date of application, the instantaneous quantity ( $Q_i$ ) or maximum withdrawal rate requested, the annual quantity ( $Q_a$ ) or volume requested (reported in acre-feet per year), the purpose of use, the water source and the geographic location (township, range and section) for the point of diversion (place of withdrawal) and/or place(s) of use.

Some of the water rights available for review in the WRTS database are incomplete, and duplicate rights listed in the database may overestimate allocated water. The WRTS database may not capture federal or Tribal water rights. The Bureau of Reclamation holds a large quantity of water rights for the Columbia Basin Reclamation Project. Water rights held by the Bureau of Reclamation are state-based water rights.

#### **4.6.2 Inchoate Water Rights**

Inchoate water right is a term used to describe the portion of a water right that is unused (or unperfected). In relation to the Columbia River, inchoate rights represent a portion of existing water rights that may be "in the river" now, but may not be in the future.

Some water right holders have permits with inchoate water right under development. Still others may have inchoate water rights associated with "pumps-and-pipes" certificates based on Ecology's past practice of issuing rights for domestic and municipal uses before complete beneficial use occurred. In 2003, the state Legislature enacted the Municipal Water Supply-Efficiency Requirements Act (Municipal Water Law), which made changes to water resources statutes and DOH statutes pertaining to municipal water rights and public water systems. The legislation clarified that such rights were in good standing and could be used for growth by the water right holder, subject to certain limitations (e.g. a future adjudication, change decision by Ecology, etc.). The legislation also established that unperfected surface water rights (inchoate rights) for municipal water supply purposes may be changed or transferred subject to conditions including compliance with the supplier's water system plan (RCW 90.03.570).

#### **4.6.3 Trust Water Rights**

Trust water is a water right or a portion of a right acquired by the state for management in the Trust Water Right Program (Trust Program) (RCW 90.42.020(3)). The state may acquire all or portions of water rights by purchase, lease, or donation, and may acquire trust water rights on a permanent or a temporary basis. Although trust water rights are most commonly acquired for purposes of instream flow, trust water rights may in fact also be authorized for other beneficial uses including "irrigation, municipal, or other beneficial uses consistent with

applicable regional plans for pilot planning areas, or to resolve critical water supply problems” (RCW 90.42.040(1)). A trust water right retains the same priority date as the original water right and importantly, is not subject to relinquishment while in the Trust Program. For a water right transferred to trust on a temporary basis, “the full quantity of water diverted or withdrawn to exercise the right before the donation or acquisition” reverts to the donor when the temporary trust period ends.

In relation to the Columbia River, trust water represents a portion of existing water rights that are “in the river” now, but may not be in the future. Under the ESSHB 2860, Section 2(4), net water savings from conservation actions will be placed into the Trust Program in proportion to the amount of funding provided by the state.

## 4.7 Water Rights Inventory

An inventory of Washington and Oregon water rights is presented below to fulfill Ecology’s obligations as described in Section 6 of the ESSHB 2860. Water rights include claims, permits, and certificates that have been recorded in each state’s database. See Chapter 3 for an overview of Washington water rights. See Appendix C for an explanation of the inventory process and an overview of Oregon water rights. See Chapter 5 for a discussion of existing water right applications.

### 4.7.1 Washington Water Rights

There are fourteen counties in Washington with water rights within one mile of the Columbia River, designated the Management Zone.

Ecology provided records of water rights (claims, permits, and certificates) and water right applications within the Management Zone (Ecology, pers. comm., 2006a). Water right applications are discussed in Chapter 5.

Water rights were organized by use codes into five General Use Designations (GUD) including Agriculture, Commercial and Industrial, Domestic, Environment and Wildlife and Undefined. With one exception, an assumption was made that the primary use of a water right would be listed first in the record. Many of the water rights list several use codes, which may encompass more than one GUD. Table 4-13 provides a list of use codes and the corresponding GUDs.

Water rights coded as power (PO) were assumed to mean hydropower and were not tabulated in this water right analysis because the stored water may be used downstream for other purposes. Water rights identified as reservoir water (RW) were not included in this inventory for the same reason.

Table 4-14 summarizes the total non-hydroelectric water rights within the Columbia River Management Zone. Figure 4-5 shows the existing water rights on a map. There are 7,087 water rights on file in the WRTS database (not including Oregon), totaling just over 8 million acre-feet per year. The WRTS database contains a significant number of records with no associated  $Q_a$ , the annual quantity, and may include duplicative records. In cases where no  $Q_a$  is reported in the database, the quantity is calculated based on continuous use of  $Q_i$ , the

instantaneous quantity. This likely overpredicts the maximum allowable annual water use associated with these water rights. A description of the WRTS data used and the steps taken to organize the data and to calculate  $Q_a$  (as applicable) are provided in Appendix C. Appendix C also contains tables showing various breakdowns of water rights by purposes of use and type (ground water and surface water). A short summary of existing water rights by purpose of use is provided below.

- The Agriculture GUD includes the dairy, frost protection, irrigation, and stock watering use codes. There are 2,365 water rights in the Agriculture GUD with a total  $Q_a$  of 6,508,773 AFY.<sup>1</sup>
- The Commercial and Industrial GUD includes the cooling for industrial purposes, commercial and industrial manufacturing, highway, mining, power, and railway use codes. There are 152 water rights in the Commercial and Industrial GUD with a total  $Q_a$  of 623,119 AFY.<sup>1</sup>
- The Domestic GUD includes the domestic general, domestic multiple, domestic single, heat exchange, domestic municipal and recreation use codes. There are 4,378 water rights in the Commercial and Industrial GUD with a total  $Q_a$  of 572,143 AFY.
- The Environment and Wildlife GUD includes the environmental quality, fire

protection, fish propagation, and wildlife propagation use codes. There are 61 water rights in the Environment and Wildlife GUD with a total  $Q_a$  of 481,994 AFY.

- The Undefined GUD includes rights where the primary use was not provided or was an unrecognized (non-standard) use code. There are 131 water rights in the Undefined GUD with a total  $Q_a$  of 8,557 AFY.

Agriculture uses account for over 79% of the water right quantity in the Management Zone in Washington State. The largest number of water rights is associated with domestic uses, but the quantity of these rights accounts for approximately 7% of the total quantity of water rights issued in the Management Zone in Washington State. In the Management Zone, Grant County has the highest quantity associated with its water rights. The majority of this use is for agricultural water rights that account for over 3 million acre-feet of water. Chelan and Benton Counties also have over 1 million acre-feet of water rights, the majority of which are for agricultural uses. Yakima County has the least number and quantity (less than 1,400 acre-feet) of water rights in the Management Zone. The extent to which these water right records reflect actual water use is described in Chapter 5.

#### 4.7.2 Oregon Water Rights

There are seven counties in Oregon with points of diversions for water rights within one mile of the Columbia River Management Zone. The Oregon Water Resources Department (OWRD) provided records of water rights and water right applications within the Management Zone (OWRD, pers. comm., 2006).

---

<sup>1</sup> One Bureau of Reclamation water right for 2,910,000 AFY is coded for multiple uses with the first (and assumed primary) use coded as commercial (CI) in the WRTS database and would be included in the Commercial and Industrial GUD based on assumptions used in this report. It is understood, however, that this water right is being put to use for agricultural purposes and therefore it has been added to the Agriculture GUD and removed from the Commercial and Industrial GUD total.

The data provided by OWRD were organized by Oregon General Use Designations (GUD) and was sorted into comparable GUDs as used for Washington water rights (Agriculture, Commercial and Industrial, Domestic, and Environment and Wildlife). See Appendix C for a list of codes and the corresponding GUD's.

Table 4-15 summarizes the total water rights in the Management Zone for Oregon. There are a total of 551 records in the Management Zone for Oregon with a total annual quantity ( $Q_a$ ) of 936,190 acre feet per year (AFY). This value does not include 116,776 AFY of supplemental irrigation and 5,927,321 AFY of instream non-consumptive uses. When records provided an instantaneous quantity ( $Q_i$ ),  $Q_a$  was calculated based on the assumption that the  $Q_i$  provided would be used twenty-four hours per day, every day of the year, using a formula that generated the maximum possible annual quantity, unless otherwise noted.

- The Agriculture GUD incorporates the agriculture, cranberry, dairy, frost protection, green house, irrigation, livestock, and nursery use codes. There are 334 water records in the Agriculture GUD, with a total  $Q_a$  of 678,179 AFY. Of this amount, 116,726 AFY are supplemental rights that are not used at the same time as primary rights. Livestock accounts for 3,978 AFY. Irrigation includes 557,475 AFY, using an average duty of 4.5 acre-feet per acre, to account for season of use.
- The Commercial and Industrial GUD incorporates the commercial, manufacturing, laboratory, mint still, log deck sprinkling, sawmill, mining shop, and road construction use codes. There are 36 water records in the Commercial and Industrial GUD with a total  $Q_a$  of 46,798 AFY.

- The Domestic GUD incorporates aesthetic, recreation, domestic, human consumption, and municipal use codes. There are 132 water records in the Domestic GUD with a total  $Q_a$  of 327,939 AFY.
- The Environment and Wildlife GUD incorporates the instream, fire protection, forest management, groundwater recharge, pollution abatement fisheries and wildlife use codes. There are 49 water rights in the Environment and Wildlife GUD with a total  $Q_a$  of 5,927,321 AFY of non-consumptive use.

Additional work is necessary to confirm the water right analysis. The data were provided by OWRD in a series of database queries by a unique "Snapshot" identification number that can be used to query individual water right records available online. The data also included whether the record referred to surface, ground water, reservoir, or other source characteristic. Water rights (claims, permits, and certificates) could not be differentiated from water right applications. The unusually large value associated with Environment and Wildlife GUD also needs to be investigated further by additional analysis of the information provided from the Oregon water rights database.

### 4.7.3 Interruptible Water Rights

Some of the water rights in the inventory are subject to interruption when streamflow falls below the flow levels established by the 1980 instream flow rule (WAC 173-563). Based on information in the WRTS database, Ecology has issued over 350 interruptible water rights (claims, permits and certificates) totaling 487,104 AFY within the Management Zone (Ecology, pers. comm., 2006c). Table 4-16

summarizes the interruptible water rights that have been issued by Ecology. These data suggest that less than 5% water rights issued by Ecology in the Management Zone are interruptible.

#### **4.7.4 Washington Permit-Exempt Water Rights**

Four types of ground water uses are exempt from the state's water right permitting system. These uses include: 1) Providing water for livestock (no gallon per day limit or acre restriction); 2) Watering a non-commercial lawn or garden one-half acre in size or less (no gallon per day limit); 3) Providing water for a single home or groups of homes (limited to 5,000 gallons per day); and 4) Providing water for industrial purposes, including irrigation (limited to 5,000 gallons per day but no acre limit). The well associated with these exempt uses of ground water is commonly called a permit-exempt well.

Ecology has been tracking the number of permit-exempt wells in the Washington State Notice of Intent Database since 1993. The database does not contain entries before 1993 and may contain duplicate entries in the case where wells have been deepened or reconditioned. Furthermore, well drillers were not required to file well logs before 1971; therefore, the existing data sources are incomplete. A future recommendation for Ecology is to improve its existing databases or use County building permit records to identify permit-exempt wells. The information in Table 4-17 and Figure 4-6 is based on the records in the Notice of Intent database and represents Ecology's best understanding of permit-exempt

well demands within the Management Zone (Ecology, pers. comm., 2006b).

There are an estimated 1,807 permit-exempt wells in the Management Zone. The majority of the permit-exempt wells in the Management Zone are located in Stevens, Benton, Lincoln, and Franklin Counties. These counties account for almost 60% of the permit-exempt wells in the Management Zone. The legal water use limit for a permit-exempt well is 5,000 gpd, indicating a permitted volume of at least 10,127 AFY. However, this assumption is likely greater than actual use.

#### **4.8 Water Use Overview**

The inventory of actual water use is based on various compilations of data at different scales and geographic units. An important aspect of water use analysis is the distinction between aggregate volumes of water used and rates of water use. Water volumes are expressed in terms of acre-feet and are often reported on an annualized basis (AFY). Flow rates are expressed in terms of cubic feet per second (cfs) or gallons per minute (gpm). Translating between a volume (AF) and a flow rate (cfs) requires a mathematical calculation that accounts for the period of time involved.

When reported on an annualized basis, total water volumes do not provide information on the seasonality of use. Seasonality is very important in both agriculture and municipal water use analysis because consumptive use is greatest during the summer. Seasonality can be estimated from annual usage through a "shaping factor" that translates the annual amount to a

series of monthly amounts or rates. For agricultural estimations, the shaping factor typically mimics the crop irrigation requirement (CIR). CIR for many crops in many different areas are published by Washington State University (WSU) (Ecology, 2005) and provide a means for distributing annual water volume estimates according to the typical water use requirements for individual crops. The sum and acreage of each individual crop could be aggregated over a given area to produce an “aggregate” CIR, which could then be used to translate annual water volumes into monthly amounts. This level of detail is not feasible for this initial forecasting effort, so a surrogate distribution of CIR was developed to translate annual water volumes to monthly water volumes. The surrogate monthly CIR is based on alfalfa, as shown on Figure 4-7. This shows that, in August, about 22% of the annual volume of water is applied, while in May only about 10% is applied. The shaping factor is 0% during the winter months when there is no irrigation. The sum of all monthly percentages equals 100% of the annual water volume. This monthly shaping factor is used to estimate monthly water use from annual water volumes reported in the inventory. Monthly domestic water use can be estimated using a similar shaping curve, except that water is used year-round. The domestic shaping curve is also shown on Figure 4-7.

Monthly average flow rates can be calculated from an annual volume (in AF) by multiplying the annual average by the shaping factor for that month and converting to a rate (either AF per day or cfs). The time constant for the volume-to-rate conversion is 30 days.

## 4.9 Water Use Inventory Results

Water use is estimated by many entities for research and planning purposes. Water use estimates are developed by the U.S. Geological Survey (USGS) every five years, by municipalities every 6 years and are available in some watershed plans. This report relies on the USGS water use estimates to draw comparisons, because they are the most comprehensive and consistent estimates available. However, data from watershed planning documents and water system plans were also inventoried and estimates of permit-exempt well use based on population from Office of Financial Management (OFM) forecasts were performed.

Future updates should be able to address data gaps and accuracy issues by utilizing additional sources, resulting in more robust estimates of water use, especially if metering data are available.

### 4.9.1 USGS Water Use Estimates

The most current basin-wide estimates of water use were published in 2004 by the USGS (Lane, 2004; USGS, 2004) and are based on data from the year 2000. See Appendix C for the Lane (2004) report. The USGS reports water use for each County by use type and source. Use types include domestic, industrial, irrigation and golf course irrigation (commercial use was reported in 1985, 1990, and 1995 data but not 2000). The report also includes estimates of thermoelectric power; however, water use for thermoelectric purposes is not included in this inventory. Within each use type, use is further separated by source type. Source types include surface or



ground water and publicly supplied or self-supplied. This additional level of detail allows water use to be compared to water rights in more discrete groups (e.g., self-supplied domestic use estimates are assumed to be equivalent to use from permit-exempt wells). Table 4-18 presents total water use estimates for the counties within the Columbia Basin study area. Figure 4-8 shows estimated water use by County on a map.

The USGS estimates are based on data supplied by state and federal entities. The USGS uses available data and surveys which are supplemented by indirect estimation methods. The USGS has no control over the quality and accuracy of the data it receives. At present, the accuracy and confidence limits of the estimates are not quantified. The estimates are aggregated at a County level, and it is not possible to estimate water use within the Management Zone from the USGS reports. As the availability of geospatial information associated with the USGS data improves, it may be possible to calculate water use within the Management Zone for future updates of this report.

The USGS water use estimates indicate that the largest water use in the Columbia Basin is irrigation and that irrigation use is concentrated in counties within the Management Zone. However, it is not possible to determine how much of the water in each of those counties is used within the Management Zone. Information to answer this question should be gathered in future updates to this supply inventory.

#### **4.9.2 Watershed Plan Water Use Estimates**

Water use data in watershed planning documents are typically found in the Phase II technical assessment or the Phase III watershed management plan. Only seventeen of the thirty-five WRIAs in the Columbia Basin study area have plans containing estimates of current and/or future water use (Table 4-19). All seventeen have information on current water use and ten have information on future water use (future water use estimates are discussed in Chapter 5). However, there is no standardized reporting of water use. Some WRIAs do not report water use for all the categories used in the USGS report, while some combine categories. This lack of complete information makes it difficult to compare discrete categories with the USGS estimates or to compare between WRIAs. Appendix C contains the entire data inventory.

Watershed planning documents are not recommended for use in a basin scale analysis at this time because estimates are not available for every WRIA in the basin (not all of the WRIAs have begun or completed the process), and the estimates that do exist are not consistent in how they present the data or group the use categories.

#### **4.9.3 County Comprehensive Plan Estimates**

Comprehensive plans for counties within the Management Zone were also reviewed to characterize existing land use, expected land use trends, and how land use changes may impact water resources. Summaries from these plans are provided in Table 4-20. Comprehensive

plans for many of the counties were not available in the short turn around time. However, some counties have reported expected land use trends that may impact water resources. Benton County is expecting an increase in agricultural land use and population. These changes could increase the demand for water for irrigation and domestic purposes. Chelan County reported a change in the size of farms (small farms are consolidating into larger farms), Grant County expects that the majority of its population growth would be concentrated in urban growth areas, and Yakima County is concerned about the security of its water supply because of conflicting water needs. Except for generalized statements regarding water use, comprehensive plans are not useful for the inventory. Appendix C contains the entire data inventory.

#### **4.9.4 DOH Water Use Estimates**

The Washington State Department of Health (DOH) provided its 2006 water system database for Group A and Group B public water systems for the entire Columbia River Basin (DOH, pers. comm. 2006). Appendix C contains the entire data inventory. Group A water systems include those that regularly serve 15 or more connections or serve 25 or more people per day for 60 days or more (WAC 246-290). The rest of the water systems are classified as Group B systems. The number of Group A and B water system connections, population served by these systems and total estimated water use by Group A and B water systems are summarized by County in Table 4-21. There are currently 408,158 Group A connections and 12,424 Group

B connections within the counties comprising the Columbia Basin. Total public water system use is estimated at 594 AF per day or approximately 200,000 AF annually. Average per person usage is estimated to be 170 gallons per day per person, with a range of 92 to 300 gallons per day per person.

Figure 4-9 illustrates the total number of connections per County within the Columbia River Basin. A significant portion of public water supply use in the basin occurs in Benton, Franklin, Grant, Kittitas, Spokane, and Yakima Counties. Spokane and Yakima Counties appear to have the largest number of Group A connections. Population served by water systems as reported in Table 4-21 only include those served by Group A or B water systems and does not constitute the entire population in the County, as permit-exempt wells also service residences in each County. The database contains geographic information for each water system. Table 4-22 provides connection information for public water systems within the Management Zone (within one mile of the Columbia River) by County, while Figure 4-10 illustrates the amount of water associated with public water systems. Total public water system use within the Management Zone is estimated at 34,000 AF annually (based on sum of Group A and Group B systems). Average per person usage is estimated to be 140 gallons per day per person.

Over eighty percent of Douglas, Franklin, and Benton County's public water use occurs within the Management Zone. Over one half of Chelan County's public water use occurs in the

Management Zone. Together, Benton and Franklin County's public water use in the Management Zone comprises over 50% of the total public water use in the Columbia River Management Zone and represents the growing use by the cities of Kennewick, Pasco, Richland, W. Richland, and Prosser.

#### **4.9.5 Municipal Water System Plans**

Approximately 17% of the Group A water system connections in the Management Zone belong to the seven major municipalities along the Columbia River, including Kennewick, Pasco, Richland, West Richland, Chelan, Wenatchee and East Wenatchee. These municipalities account for approximately 80% of the total connections within the Management Zone. Per capita water use for the primary municipal water purveyors in the Management Zone varies between 130 and 400 gpd and averages approximately 250 gpd. Appendix C contains the entire data inventory.

Over half of the seven largest municipalities have less than 10% unaccounted for water, which is the target set in Ecology's proposed water use efficiency rule. However, West Richland, Chelan, and Wenatchee have close to 15% unaccounted for water, or a total of 4,355 AFY. These cities could conserve a total of about 220 AFY by reducing their percentage of unaccounted for water to 10%. The majority of these municipalities take water directly or indirectly from the Columbia River. The cities of Kennewick, Pasco, and Richland meet a portion of their water demands through direct diversion of Columbia River water. These cities

also use wells to supplement their supply. West Richland relies solely on deep ground water wells for its municipal water demands.

Wenatchee and East Wenatchee meet their water demand by pumping from a series of shallow wells that are connected to the Columbia River through ground water flow. All the major municipalities that provided future projections in their water system plans expect significant increases in their service area populations over the next 20 years, with increases of 150% to near doubling of population.

#### **4.9.6 Permit-Exempt Well Water Use Estimates**

##### County Level Estimates

Water use estimates for permit-exempt wells were calculated for each County by combining the 2006 OFM and DOH population estimates (Table 4-23). Population that is not served by a public water system as indicated in the DOH database is assumed to be serviced by permit-exempt wells. The estimated water use, at a County scale, associated with permit-exempt wells is about 170 AF per day or 62,000 AF annually, equal to the population difference (OFM – DOH) multiplied by 170 gpd per person (which is the average per capita water use in Table 4-23). This value is comparable to the USGS estimate of self-supplied domestic water use in the Counties within the Columbia Basin (Table 4-18).

##### Management Zone Estimates

Ecology has estimated that there are 1,807 permit-exempt wells in the Management Zone (see Section 4.7). Water use for permit-exempt

wells in the Management Zone is equivalent to about 10,127 AFY based on a 5,000 gpd per well water use factor (Table 4-17). This is the maximum amount of water authorized for use under the permit-exempt well statute and is likely greater than actual use.

## **TABLES**

**Table 4-1. Documents and Databases Reviewed to Develop the Baseline Assessment and Inventory**

Type	Reference
<b>Existing Baseline Studies</b>	
Federal Agency	Lane, R.C. 2004. Estimated Domestic, Irrigation, and Industrial Water Use in Washington, 2000. U.S. Geological Survey Science Investigations Report 2004-5015, 16 p. Available online at <a href="http://pubs.usgs.gov/sir/2004/5015/">http://pubs.usgs.gov/sir/2004/5015/</a> .
Federal Agency	U.S. Geological Survey (USGS). 2004. Estimated Use of Water in the United States in 2000. USGS Circular 1268. By Susan S. Hutson, Nancy L. Barber, Joan F. Kenny, Kristin S. Linsey, Deborah S. Lumia, and Molly A. Maupin. Available online at <a href="http://water.usgs.gov/watuse/data/2000/index.html">http://water.usgs.gov/watuse/data/2000/index.html</a> .
Federal Agency	U.S. Geological Survey. 1999. 1991 Washington Land Cover Data Set. U.S. Geological Survey. Sioux Falls, South Dakota.
Academic	University of Washington. 2004. Economics of Columbia River Initiative Final Report to the Washington Department of Ecology and CRI Economics Advisory Committee. January 12, 2004.
Academic	National Research Council of the National Academies (National Research Council). 2004. Managing the Columbia River: Instream Flows, Water Withdrawals, and Salmon Survival. Washington, DC: The National Academies Press.
<b>State and Local Planning Documents</b>	
Watershed Planning	Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.
Watershed Planning	Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.
Watershed Planning	HDR/EES, Inc. 2005. Walla Walla Watershed Plan. May 2005.
Watershed Planning	HDR Inc. 2006. Middle Snake Watershed Plan Draft. April 2006.
Watershed Planning	GeoEngineers. 2004. Level I Technical Assessment Water Resource Inventory Area 60, Kettle River Watershed. March 16, 2004.
Watershed Planning	GeoEngineers. 2004. WRIA 59 Colville River Watershed Plan. Presented to: Stevens County Board of County Commissioners. On Behalf of: Colville River Watershed Planning Team. November 15, 2004.
Watershed Planning	Golder Associates Inc. (Golder). 2004. Phase II - Level 1 Technical Assessment for the Palouse Basin (WRIA 34). December 8, 2004.
Watershed Planning	Golder Associates Inc. (Golder). 2005. Pend Oreille (WRIA 62) Watershed Management Plan. Prepared for the Pend Oreille Planning Unit. March 2005.
Watershed Planning	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.
Watershed Planning	Kennedy/Jenks Consultants. 2005. Watershed Assessment Report WRIA 43. November 2005.

See notes at end of table.

Table 4-1

Type	Reference
Watershed Planning	Kennedy/Jenks Consultants, GeoEngineers, Inc., and Water & Natural Resources Group (Kennedy/Jenks). 2005. Watershed Assessment Report Water Resource Inventory Area 43 Upper Crab Creek-Wilson Creek Watershed. Prepared for Lincoln County. Prepared by Kennedy/Jenks Consultants in association with GeoEngineers, Inc. and Water & Natural Resources Group. November 2005.
Watershed Planning	Methow Basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005.
Watershed Planning	Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.
Watershed Planning	Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.
Watershed Planning	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.
Watershed Planning	WRIA 46 Planning Unit. 2004. Management Plan. October 2004.
Watershed Planning	Little Spokane River and Middle Spokane River Planning Unit. 2006. WRIA 55 and 57 Watershed Management Plan. January 31, 2006.
Watershed Planning	Golder Associates Inc. (Golder). 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to the Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004.
Storage Assessment	Aspect Consulting. 2003. Multipurpose Water Storage Screening Assessment Report WRIA 30. June 20, 2003.
Storage Assessment	Aspect Consulting. 2003. Addendum to WRIA 30 Multipurpose Water Storage Screening Assessment Report. November 25, 2003.
Storage Assessment	Kennedy/Jenks Consultants. 2003. Candidate SASR Sites Hydrogeology, Walla Walla Basin Aquifer Recharge. Prepared for Economic and Engineering Services, Portland, Oregon.
Storage Assessment	*Kennedy/Jenks Consultants. 2004. Proposed SAR monitoring and test plan, Hall-Wentland site, Umatilla County, Oregon. Prepared for EES-HDR, Pasco, Washington.
Storage Assessment	Golder Associates Inc. (Golder). 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.
Storage Assessment	Golder Associates Inc. (Golder). 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.
Storage Assessment	Montgomery Water Group (MWG). 2006. Chelan County Natural Resource Program Multi-Purpose Water Storage Assessment in the Wenatchee River Watershed. March 8, 2006 Draft.
Storage Assessment	Golder Associates Inc. (Golder). 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.
Storage Assessment	Pacific Groundwater Group and Montgomery Water Group (MWG). 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.
Storage Assessment	Golder Associates Inc. (Golder). 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.

See notes at end of table.

Table 4-1

Type	Reference
Storage Assessment	*Brown & Caldwell & GeoEngineers, June 2003. WRIA 59 Assessment of Multi-Purpose Water Storage Opportunities.
Irrigation District Conservation Plan	CH2M Hill. 1996. Kiona Irrigation District Comprehensive Water Conservation Plan. February 1996.
Irrigation District Conservation Plan	CH2M Hill. 1999. Kittitas Reclamation District Water Conservation Plan. February 1999.
Irrigation District Conservation Plan	CH2M Hill. 1995. Outlook Irrigation District Comprehensive Water Conservation Plan. November 1995.
Irrigation District Conservation Plan	CH2M Hill. 1994. South Naches Irrigation District Comprehensive Water Conservation Plan. February 1994.
Irrigation District Conservation Plan	Davis Engineering. 2000. Benton Irrigation District Water Conservation Plan. March 2000.
Irrigation District Conservation Plan	J-U-B Engineers. 1996. Columbia Irrigation District Comprehensive Water Conservation Plan. October 1996.
Irrigation District Conservation Plan	Montgomery Water Group (MWG). 2002. Brewster Flat Irrigation District Water Conservation Plan. June 2002.
Irrigation District Conservation Plan	Montgomery Water Group (MWG). 2000. Greater Wenatchee Irrigation District Water Conservation Plan. June 2000.
Irrigation District Conservation Plan	Montgomery Water Group (MWG). 2002. Okanogan Irrigation District Water Conservation Plan. May 2002.
Irrigation District Conservation Plan	Montgomery Water Group (MWG). 2002. Quincy-Columbia Basin Irrigation District Water Conservation Plan. March 2002.
Irrigation District Conservation Plan	Montgomery Water Group (MWG). 2002. South Columbia Basin Irrigation District Water Conservation Plan. February 2002.
Irrigation District Conservation Plan	Montgomery Water Group (MWG). 2000. Yakima-Tieton Irrigation Project Water Conservation Plan. June 2000.
Irrigation District Conservation Plan	Natural Resources Consulting Engineers. 1999. Irrigation Water Conservation and Management Plan for the Wapato Irrigation District. May 4, 1999.
Irrigation District Conservation Plan	UMA Consultants. 2000. Roza-Sunnyside Board of Joint Control Water Conservation Program Tier One Feasibility Study. March 2000.
County Comprehensive Plan	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
County Comprehensive Plan	Chelan County. 2005. Chelan County Comprehensive Plan 2000. Last Amended 2-14-05.
County Comprehensive Plan	Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearns, Inc. September 1999.
County Comprehensive Plan	Kittitas County. 2005. Kittitas County Comprehensive Plan. December 2001. Revised 9-28-2005.
County Comprehensive Plan	Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
County Comprehensive Plan	Advanced Planning Solutions, Inc. 2006. Report of Findings for Skamania County Comprehensive Plan Update Visioning Exercise with Emphasis in the Swift Area. June 2006.

See notes at end of table.

Table 4-1



Type	Reference
County Comprehensive Plan	Stevens County Land Services. 2006. Stevens County Comprehensive Land Use Plan. Resolution #59-2006. Effective July 13, 2006.
County Comprehensive Plan	Yakima County Planning Department. 1998. Plan 2015: A Blueprint for Yakima County Progress. Adopted May 20, 1997. Amended December 28, 1998.
Municipal Water System Plan	Coleman, Thomas, P.E. Consulting Services, 2004. City of Yakima Water System Plan, March 2004.
Municipal Water System Plan	RH2 Engineering, 2004. City of Wenatchee 2003 Comprehensive Water System Plan, Volume 1. City Service Area and Facilities. March, 2004. RH2 Engineering, 2003. City of Wenatchee 2003 Comprehensive Water System Plan, Volume 2 - Regional Service Area and Facilities. March 2004.
Municipal Water System Plan	RH2 Engineers Inc. 2005. City of East Wenatchee Water System Plan (summarized from City of Wenatchee 2005 Comprehensive Water System Plan).
Municipal Water System Plan	Gray and Osborne, Inc. 2002. City of Chelan Water System Plan, January 2002.
Municipal Water System Plan	HDR and EES. 2005. Quad Cities Water Right 2005 Regional Water Forecast and Conservation Plan. August 2005.
Washington Department of Health	Washington Department of Health (DOH) Office of Drinking Water. 2006. Personal Communication with Megan Nicodemus. Columbia River Data Group A Systems and Columbia River Data Group B Systems. Obtained 8/16/2006.
<b>Federal Planning Documents</b>	
Storage Assessment	United States Bureau of Reclamation. 2004. Summary Report Appraisal Assessment of the Black Rock Alternative. December 2004.
Storage Assessment	United States Bureau of Reclamation. 2006. Yakima River Basin Storage Alternatives Appraisal Assessment. May 2006.
Storage Assessment	Washington State Department of Ecology and U.S. Bureau of Reclamation (Ecology and Reclamation). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. Prepared by Montgomery Watson Harza (MWH). December 2005.
Corps	U.S. Army Corps of Engineers (Corps). 2006a. 2006 Water Management Plan. Final May 17, 2006.
Corps	U.S. Army Corps of Engineers (Corps). 2006b. Fish Passage Plan Corps of Engineers Projects. March 2006.
BPA	Bonneville Power Administration (BPA). 2005. 2004 Pacific Northwest Loads and Resources Study (2004 White Book) Operating Years 2006 Through 2015. Updated November 15, 2005.
NMFS	National Marine Fisheries Service (NMFS). 2004. Endangered Species Act – Section 7 Consultation Biological Opinion, Consultation on Remand for Operation of the Columbia River Power System and 19 Bureau of Reclamation Projects in the Columbia Basin (Revised and reissued pursuant to court order, NWF v. NMFS, Civ. No. CV 01-640-RE (D. Oregon)). November 30, 2004.

Type	Reference
<b>Water Rights</b>	
Washington	Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.
Washington	Washington State Notice of Intent Database. Excerpt of exempt wells within the 1 mile management zone. Provided by Ecology August 7, 2006.
Washington	Washington State Department of Ecology (Ecology), personal communication, August 9, 2006. Email from Ron Dixon, Preliminary data on interruptible water rights within 1 mile of the Columbia River.
Oregon	Oregon Water Rights Database. Excerpt of water rights and applications within 1 mile of the Columbia River. Provided by Oregon Water Resources Department. September 14, 2006.
Tribal	Yakama Nation. Yakama Nation Water Code Title 60.
Tribal	Confederated Tribes of the Umatilla Indian Reservation. Water Code. Amended through resolution No. 05-027, March 7, 2005.
Tribal	Confederated Tribes of the Warm Springs. Warm Springs Tribal Code. Chapter 431. Warm Springs Water and Sewer System Act.
Tribal	Confederated Tribes of the Colville Reservation. Chapter 4-10 Water Resource Use and Permitting. June 2006.
Tribal	Nez Perce Tribe. Tribal Code. Section 4 Waters Infracton; Title 8 Water and Sewer Utility Authority.
Other	SCM Consultants. 2001. Facsimile; Subject: Yakima River Basin Watershed Plan. August 15, 2001.

**NOTES**

\*Did not have a copy to review.

\*\*See Table 3-5 for a list of key Washington and federal regulations pertaining to the Columbia River.

**Table 4-2.** Summary of Irrigation Application Efficiency Ranges, Consumptive Use, and Return Flows<sup>1</sup>

Method		Application Efficiency, EA (%) <sup>2</sup>		%Total Evaporated	% Total Use Consumed	Return Flow
		Range	Average, $E_{avg}$	% Evap	%CU, Average <sup>3</sup>	%RF, Average <sup>4</sup>
Surface:	Graded Furrow	50 - 80	65	5	70	30
	w/tailwater reuse	60 - 90	75	5	80	20
	Level Furrow	65 - 95	80	5	85	15
	Graded Border	50 - 80	65	5	70	30
	Level Basins	80 - 95	85	5	90	10
	Flood	35 - 60	50	5	55	45
Sprinkler:	Periodic Move (Handline)	60 - 85	75	10	85	15
	Side Roll (Wheelline)	60 - 85	75	10	85	15
	Moving Big Gun	55 - 75	65	10	75	25
	Solid Set - Overtree	55 - 80	70	15	85	15
	Solid Set - Undertree	60 - 85	75	10	85	15
	Pop-Up Impact	60 - 85	75	10	85	15
Center Pivot:	Impact heads w/end gun	75 - 90	80	15	95	5
	Spray heads w/o end gun	75 - 95	90	10	100	0
	LEPA w/o end gun	80 - 98	92	5	97	3
Lateral-Move:	Spray heads w/hose feed	75 - 95	90	10	100	0
	Spray heads w/canal feed	70 - 95	85	10	95	5
Microirrigation:	Trickle/Drip	70 - 95	88	5	93	7
	Subsurface Drip	75 - 95	90	0	90	10
	Microspray	70 - 95	85	10	95	5

See notes on next page.

Table 4-2

**NOTES**

- <sup>1</sup> Calculate the actual water use from water meter data, power meter, or run-time data. In the absence of such data, the TIR (total irrigation requirement) - CIR / EA, where CIR is the crop irrigation requirement from the WIG (Appendix B) and Ea is the case-specific application efficiency above. Reference: Washington State Department of Ecology (Ecology). 2005. Determining Irrigation Efficiency and Consumptive Use. Water Resources Program Guidance. Guide 1210. Available online at <http://www.ecy.wa.gov/programs/wr/rules/images/pdf/guid1210.pdf>.
- <sup>2</sup> % Evap is the portion of the total crop irrigation requirement that is evaporated due to factors other than crop ET.
- <sup>3</sup> Select appropriate %CU based on type of irrigation system. If calculated Ea is greater or less than  $Ea_{avg}$ , then  $\%CU = Ea + \%Evap$ .  $CU = TIR \times \%CU$ .
- <sup>4</sup> Select appropriate %RF based on type of irrigation system. If calculated Ea is greater or less than  $Ea_{avg}$ , then  $\%RF = 100 - \%CU$ .  $RF = TIR \times \%RF$ .

**Table 4-3. Municipal Conservation Summary**

Element of Proposed Water Use Efficiency Rule	Description
Planning Requirements - #331-303	<ul style="list-style-type: none"> <li>• To develop a water efficiency program that monitors on a regular basis and reports on water production and consumption to determine the best means of conservation.</li> <li>• To report water demand projections based on population projections and changes in land use and zoning.</li> <li>• To identify and evaluate a prescribed number of water use efficiency measures depending on the water system size. Water systems with 1,000 or more connections are required to evaluate reuse options.</li> </ul>
Distribution Leakage Standard - #331-304	<ul style="list-style-type: none"> <li>• To reduce unaccounted for water, or leaked water, to 10% or less</li> <li>• To have source and service meters within 10 years of rule adoption</li> <li>• To report leakage information in planning reports and annual performance reports</li> </ul>
Goal-Setting and Performance Reporting Requirements - #331-305	<ul style="list-style-type: none"> <li>• To set water use efficiency goals by July 2007 and update goals every 6 years</li> <li>• To include goals with measurable outcome, an implementation schedule, and supply and demand characteristics</li> </ul>
Metering Requirements - #331-306	<ul style="list-style-type: none"> <li>• To install source meters on all existing and new water sources</li> <li>• To meter existing and new water connections</li> </ul>
Implementation Schedule - #331-340	<ul style="list-style-type: none"> <li>• Rule adoption by September 15, 2006</li> <li>• Begin recording data to include in planning documents by December 31, 2006</li> </ul>

**Table 4-4.** Allowable Reclaimed Water Class Types for Various Reclaimed Water Uses<sup>1</sup>

Use	Type of Reclaimed Water Allowed			
	Class A	Class B	Class C	Class D
<b>Irrigation of Nonfood Crops</b>				
Trees and Fodder, Fiber, and Seed Crops	Yes	Yes	Yes	Yes
Sod, Ornamental Plants for Commercial Use, and Pasture to Which Milking Cows or Goats Have Access	Yes	Yes	Yes	No
<b>Irrigation of Food Crops</b>				
Spray Irrigation				
All Food Crops	Yes	No	No	No
Food Crops Which Undergo Physical or Chemical Processing Sufficient to Destroy All Pathogenic Agents	Yes	Yes	Yes	Yes
Surface Irrigation				
Food Crops Where There is No Reclaimed Water Contact With:				
Edible Portion of Crop	Yes	Yes	No	No
Root Crops	Yes	No	No	No
Orchards and Vineyards	Yes	Yes	Yes	Yes
Food Crops Which Undergo Physical or Chemical Processing Sufficient to Destroy All Pathogenic Agents	Yes	Yes	Yes	Yes
<b>Landscape Irrigation</b>				
Restricted Access Areas (e.g., Cemeteries and Freeway Landscapes)	Yes	Yes	Yes	No
Open Access Areas (e.g., Golf Courses, Parks, Playgrounds, School Yards and Residential Landscapes)	Yes	No	No	No
<b>Impoundments</b>				
Landscape Impoundments	Yes	Yes	Yes	No
Restricted Recreational Impoundments	Yes	Yes	No	No
Nonrestricted Recreational Impoundments	Yes	No	No	No
<b>Fish Hatchery Basins</b>	Yes	Yes	No	No
<b>Decorative Fountains</b>	Yes	No	No	No
<b>Flushing of Sanitary Sewers</b>	Yes	Yes	Yes	Yes
<b>Street Cleaning</b>				
Street Sweeping, Brush Dampening	Yes	Yes	Yes	No
Street Washing, Spray	Yes	No	No	No
<b>Washing of Corporation Yards, Lots, and Sidewalks</b>	Yes	Yes	No	No
<b>Dust Control (Dampening Unpaved Roads and Other Surfaces)</b>	Yes	Yes	Yes	No
<b>Dampening of Soil for Compaction (at Construction Sites, Landfills, etc.)</b>	Yes	Yes	Yes	No

See next page for notes.

Table 4-4

Use	Type of Reclaimed Water Allowed			
	Class A	Class B	Class C	Class D
<b>Water Jetting for Consolidation of Backfill Around Pipelines</b> Pipelines for Reclaimed Water, Sewage, Storm Drainage, and Gas, and Conduits for Electricity	Yes	Yes	Yes	No
<b>Fire Fighting and Protection</b>				
Dumping from Aircraft	Yes	Yes	Yes	No
Hydrants or Sprinkler Systems in Buildings	Yes	No	No	No
<b>Toilet and Urinal Flushing</b>	Yes	No	No	No
<b>Ship Ballast</b>	Yes	Yes	Yes	No
<b>Washing Aggregate and Making Concrete</b>	Yes	Yes	Yes	No
<b>Industrial Boiler Feed</b>	Yes	Yes	Yes	No
<b>Industrial Cooling</b>				
Aerosols or Other Mist Not Created	Yes	Yes	Yes	No
Aerosols or Other Mist Created (e.g., Use in Cooling Towers, Forced Air Evaporation, or Spraying)	Yes	No	No	No
<b>Industrial Process</b>				
Without Exposure of Workers	Yes	Yes	Yes	No
With Exposure of Workers	Yes	No	No	No
<b>Wetlands (additional requirements may apply)</b>				
All Wetlands	Yes	Yes	Yes	Yes
Noncontact Recreational or Educational Use With Restricted Access	Yes	Yes	Yes	No
Fisheries Use, or Noncontact Recreational or Educational Use with Open (Unrestricted) Access	Yes	Yes	No	No
Potential Human Contact Recreational or Educational Use	Yes	No	No	No
<b>Ground Water Recharge (additional requirements may apply)</b>	Yes	No	No	No
<b>Indirect Potable Reuse (additional requirements may apply)</b>	Yes	No	No	No
<b>Streamflow Augmentation (additional requirements may apply)</b>	Yes	No	No	No

## NOTES

<sup>1</sup> While these are the only uses described in the Reuse Standards, other uses can be considered through consultation with Ecology.

### Sources:

Washington State Department of Ecology (Ecology). 1998. Criteria for Sewage Works Design, Water Quality Program. December 1998.

Washington State Department of Ecology. 2005. Case Studies in Reclaimed Water Use – Creating new supplies across Washington State. Publication No. 05-10-0513. June 2005.

**Table 4-5. Potential Conservation District Projects by County**

County	Conservation District Submitting Information	Type of Project	Number of Projects			Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Estimated Cost/Acre Foot (\$/ac-ft)
			Listed	with Est. Water Savings	with Estimated Cost			
Asotin	Asotin County CD	On-farm Conservation	10	7	7	>75	>171,400	2,285
Benton	BCD	Lining/Piping; On-farm Conservation	10	6	10	13,170	80,870,000	6,140
Douglas	Foster Creek	On-farm Conservation	34	34	34	5,869	24,266,000	4,135
Franklin	Franklin CD & Grant CD; Franklin CD	On-farm Conservation; On-farm Conservation Programs	1,056	1,056	1,056	156,091^	156,338,140*^	1,002
Grant	Grant CD; Franklin CD & Grant CD	On-farm Conservation; On-farm Conservation Programs	4,083	4,083	4,083	294,474^	327,031,720	1,111
Kittitas	Kittitas Co CD	Lining/Piping; On-farm Conservation; Tailwater Reuse; Other	20	19	19	41,676	58,916,200	1,414
Lincoln	Lincoln County CD	Automation/Irrigation Water Mgmt; On-farm Conservation; Other	38	0	3	Unknown	>30,000	Unknown
Okanogan	WSCC on behalf of Okanogan CD	On-farm Conservation	1	1	1	911	240,000	263
Skamania	Underwood CD	Automation/Irrigation Water Mgmt	1	0	0	Unknown	Unknown	Unknown
Walla Walla	Walla Walla CD	Automation/Irrigation Water Mgmt; Lining/Piping; On-farm Conservation; Surface to Groundwater Conversion; Water Right Purchase	36	36	36	20,898	15,212,000	728
Whitman	Palouse County CD	General water conservation	15	0	3	Unknown	>92,000	Unknown
Yakima	North Yakima CD	Lining/Piping; Storage/Re-reg Reservoirs	11	6	10	>12,100	118,700,000	Unknown
<b>Total</b>			<b>5,315</b>	<b>5,248</b>	<b>5,262</b>	<b>545,265</b>	<b>&gt;781,867,460</b>	<b>1,434</b>

See next page for notes.

Table 4-5



**NOTES**

Abbreviations: CD: Conservation District; Est.: Estimated; Mgmt: Management; WSCC: Washington State Conservation Commission

\* This cost is based upon the amount of money required upfront to capitalize the expenditure assuming an annual interest rate of 5%.

^ Combined programs; split into counties assuming Grant County portion is 60% and Franklin County portion is 40%.

**Table 4-6.** Summary of Water Conservation Projects Obtained from Conservation Districts

Type of Project	Number of Projects Listed	Number with Estimated Water Savings/Estimated Costs	Estimated Water Savings (ac-ft/yr)	Estimated Cost	Estimated Cost/Acre Foot
Automation-Irrigation Water Mgmt	18	14/17	>5,807	>\$3,500,000	\$603/ac-ft
General Water Conservation	15	0/3	Unknown	>\$92,000	Unknown
Lining/Piping	33	27/32	>23,458	>\$158,763,000	\$6,767/ac-ft
On-Farm Conservation Programs (Grant & Franklin CD)	8	8/8	346,101	\$319,369,760*	\$923/ac-ft
On-Farm Conservation Improvements	5,214	5,193/5,195	>160,279	>\$258,792,700	\$1,615/ac-ft
Other	20	1/1	>1,000	>\$130,000	\$130/ac-ft
Storage/Re-reg Reservoirs	2	0/1	Unknown	>\$40,000,000	Unknown
Surface to Groundwater Conversion	1	1/1	360	\$200,000	\$556/ac-ft
Tailwater Reuse	2	2/2	2,900	\$520,000	\$179/ac-ft
Water Right Purchase	2	2/2	5,360	\$500,000	\$93/ac-ft
<b>Total</b>	<b>5,315</b>	<b>5,248/5,262</b>	<b>&gt;545,265</b>	<b>&gt;\$781,867,460</b>	<b>\$1,434/ac-ft</b>

**NOTES**

Abbreviations: CD: Conservation District

\*This cost is based upon the amount of money required upfront to capitalize the expenditure assuming an annual interest rate of 5%.

**Table 4-7. Potential Irrigation District Water Conservation Projects**

County <sup>1</sup>	Number of Projects Listed	Number with Estimated Water Savings/ Estimated Costs	Estimated Water Savings (AFY)	Estimated Cost <sup>2</sup>	Estimated Cost/Acre-Foot
Adams	2	2/2	32,500	\$9,300,000	\$286/ac-ft
Benton	4	4/4	47,468	\$32,927,620	\$694/ac-ft
Columbia	1	1/1	706	\$994,000	\$1,408/ac-ft
Douglas	4	0/4	Unknown	>\$802,000	NA
Franklin	3	1/3	>11,300	\$6,081,000	\$538/ac-ft
Grant	3	2/3	>47,360	>\$52,810,000	\$1,115/ac-ft
Kittitas	2	2/2	62,230	\$52,234,000	\$839/ac-ft
Okanogan	9	6/9	>10,594	\$11,563,000	\$1,091/ac-ft
Walla Walla	1	0/1	Unknown	>\$13,176,000	NA
Yakima	53	48/52	>212,668	>\$270,776,950	\$1,273/ac-ft
<b>Total</b>	<b>82</b>	<b>66/81</b>	<b>&gt;424,800</b>	<b>&gt;\$450,664,600</b>	<b>\$1,061/ac-ft</b>

Type of Project	Number of Projects Listed	Number with Estimated Water Savings/ Estimated Costs	Estimated Water Savings (AFY)	Estimated Cost <sup>2</sup>	Estimated Cost/Acre-Foot
Automation-Irrigation Water Management	16	6/16	>15,500	\$66,000,000	\$4,258/ac-ft
Lining/Piping	52	48/51	>324,000	>\$324,311,400	\$1,001/ac-ft
On-Farm Conservation	5	4/5	>33,610	\$21,237,000	\$632/ac-ft
Other	2	2/2	10,914	\$6,936,300	\$636/ac-ft
Storage/Re-reg Reservoirs	7	6/7	>40,760	\$32,420,700	\$795/ac-ft
<b>Total</b>	<b>82</b>	<b>66/81</b>	<b>&gt;424,800</b>	<b>&gt;\$450,905,400</b>	<b>\$1,061/ac-ft</b>

**NOTES**

Abbreviations: ac-ft: acre-foot; AFY: acre-feet per year; NA: Not applicable

<sup>1</sup> County is based on the location of the project. In some cases, the county where the water was diverted is different from the location of the project.

<sup>2</sup> The total estimated cost by county and project type do not match due to averaging of one of the automation irrigation projects.

**Table 4-8. Municipal Conservation and Reuse**

County	Municipal Water Supplier	Conservation		Reuse		
		Current Conservation	Future Conservation	Level of Treatment	Description of Use	Facility Design Capacity
Benton	City of Kennewick	0.10 AFY based on customer conservation measures	NA	NA	NA	NA
Chelan	City of Wenatchee	NA	4 % conservation by 2008	NA	NA	NA
Chelan	City of East Wenatchee	3 AFY (0.1% total water use)	NA	NA	NA	NA
Chelan	City of Chelan	13 AFY (1% total water use)	Public education, rate surcharges, goal billing	NA	NA	NA
Grant	City of Ephrata	NA	NA	Class A	Groundwater recharge; washing of on-site equipment; on-site irrigation; water hydrant system for dust control and construction	1.22 MGD
Grant	City of Royal City	NA	NA	Class A	Aquifer recharge through surface percolation basins; treatment plant washdown; process water; on-site irrigation; hydrant system for construction	0.25 MGD
Grant	City of Quincy	NA	NA	Class A	Aquifer recharge through infiltration basins	1.54 MGD
Yakima	City of Yakima	New source meters, conservation program, leak repair, conservation pricing	Possible water reuse, aquifer storage and recovery (ASR)	NA	NA	NA
Walla Walla	City of Walla Walla	NA	NA	Unknown	Agricultural use; discharge to Mill Creek to satisfy senior water rights	9.6 MGD

See notes on next page.

Table 4-8

County	Municipal Water Supplier	Conservation		Reuse		
		Current Conservation	Future Conservation	Level of Treatment	Description of Use	Facility Design Capacity
Walla Walla	City of College Place	NA	NA	Class C	Flow augmentation in Garrison Creek watershed	1.65 MGD
Spokane	City of Medical Lake	NA	NA	Class A	Maintain water levels in West Medical Lake; irrigation of treatment plant facility grounds	1.85 MGD
Spokane	City of Cheney	NA	NA	Class D	Wetlands habitat; facility wash down; on-site irrigation	Avg Annual: 1.5 MGD; Monthly Avg: 2.7 MGD

**NOTES**

Abbreviations: AFY: acre-feet per year; Avg.: Average; MGD: Million gallons per day; NA: Not available or Not applicable

**Table 4-9. Federal Dam Storage by County and Purpose of Use (acre-feet)<sup>1,2</sup>**

County	Irrigation <sup>3</sup>	Water Supply <sup>4</sup>	Hydropower <sup>5</sup>	Other <sup>6</sup>	Total
Adams	340	NA	NA	45	385
Asotin	NA	NA	NA	NA	NA
Benton	450	NA	1,350,000	NA	1,350,450
Chelan	NA	NA	NA	1,250	1,250
Columbia	NA	NA	565,200	NA	565,200
Douglas	NA	NA	593,000	NA	593,000
Ferry	18,950	NA	NA	NA	18,950
Franklin	38,993	NA	438,080	NA	477,073
Garfield	NA	NA	NA	NA	NA
Grant	12,794,950 <sup>7</sup>	NA	730	570	12,796,250
Kittitas	1,131,100	NA	NA	NA	1,131,100
Klickitat	NA	NA	2,860,000	NA	2,860,000
Lincoln	NA	NA	NA	NA	NA
Okanogan	54,550	NA	NA	NA	54,550
Pend Oreille	NA	NA	NA	NA	NA
Skamania	180	NA	537,000	12	537,192
Spokane	NA	NA	NA	598	598
Stevens	NA	NA	NA	NA	NA
Walla Walla	NA	NA	376,000	NA	376,000
Whitman	NA	NA	485,000	NA	485,000
Yakima	244,830	NA	NA	NA	244,830
<b>Total</b>	14,284,343	NA	7,205,010	2,475	21,491,828

**NOTES**

Abbreviations: NA: Not applicable

<sup>1</sup> Source: Washington State Department of Ecology Dams of Washington State database, January 2006.

<sup>2</sup> Values are total maximum storage including the Columbia River mainstem.

<sup>3</sup> Total maximum storage for Columbia Basin dams with irrigation as primary use.

<sup>4</sup> Total maximum storage for Columbia Basin dams with water supply as primary use.

<sup>5</sup> Total maximum storage for Columbia Basin dams with hydropower as primary use.

<sup>6</sup> Total maximum storage for Columbia Basin dams with fish and wildlife as primary use or use unspecified.

<sup>7</sup> Includes 9,562,000 AF of storage on the Columbia River mainstem behind Grand Coulee Dam.

**Table 4-10. Non-Federal Dam Storage by County and Purpose of Use (acre-feet)<sup>1,2</sup>**

County	Irrigation <sup>3</sup>	Water Supply <sup>4</sup>	Hydropower <sup>5</sup>	Other <sup>6</sup>	Total
Adams	16,075	182	NA	3,366	19,623
Asotin	NA	NA	NA	23	23
Benton	418	NA	NA	654	1,072
Chelan	18,987	NA	1,580,350 <sup>7</sup>	414	1,599,751
Columbia	NA	NA	NA	92	92
Douglas	1,769	NA	500,000	326	502,095
Ferry	NA	NA	NA	3,480	3,480
Franklin	2,793	NA	50	327	3,170
Garfield	50	NA	NA	NA	50
Grant	50,145	NA	1,018,775 <sup>8</sup>	474	1,069,394
Kittitas	22	NA	NA	156	178
Klickitat	276	130	2,050	82	2,538
Lincoln	190	NA	262,180	4,544	266,914
Okanogan	80,426	NA	2,400	2,709	85,535
Pend Oreille	2,330	25	270,450	576	273,381
Skamania	34	10	756,000	16	756,060
Spokane	110	NA	9,143	263	9,516
Stevens	570	525	75	1,774	2,944
Walla Walla	90	46	NA	220	356
Whitman	NA	NA	NA	10	10
Yakima	5,798	NA	NA	127	5,925
<b>Total</b>	<b>180,083</b>	<b>918</b>	<b>4,401,473</b>	<b>19,633</b>	<b>4,602,107</b>

**NOTES**

Abbreviations: NA: Not applicable

<sup>1</sup> Source: Washington State Department of Ecology Dams of Washington State database, January 2006.

<sup>2</sup> Values are total maximum storage including the Columbia River mainstem.

<sup>3</sup> Total maximum storage for Columbia Basin dams with irrigation as primary use.

<sup>4</sup> Total maximum storage for Columbia Basin dams with water supply as primary use.

<sup>5</sup> Total maximum storage for Columbia Basin dams with hydropower as primary use.

<sup>6</sup> Total maximum storage for Columbia Basin dams with fish and wildlife as primary use or use unspecified.

<sup>7</sup> 521,000 AF is storage only on the Columbia River mainstem.

<sup>8</sup> 1,018,600 AF is storage only on the Columbia River mainstem.

**Table 4-11. Potential Large Storage Opportunities**

Name	County	Volume (AF)	Cost Estimate <sup>4</sup> (\$ millions)	Cost per AF
Hawk Creek Dam <sup>1</sup>	Lincoln	1,550,000	\$1,444 - \$1,624	\$932 – \$1,048
Foster Creek Dam <sup>1</sup>	Douglas	1,340,000	\$2,967 - \$3,348	\$2,214 – \$2,499
Sand Hollow <sup>1</sup>	Grant	1,230,000	\$971 - \$1,092	\$790 - \$890
Crab Creek <sup>1</sup>	Grant	2,650,000	\$1,703 - \$1,915	\$640 - \$720
Wymer Dam plus Columbia River pump back <sup>2</sup>	Yakima/Benton	1,102,000	\$2,582 - \$2,850	\$2,343 - \$2,586
Black Rock Dam <sup>3</sup>	Yakima/Grant	800,000 - 1,300,000	\$3,500 - \$4,000	\$2,692 - \$5,000

**NOTES**

<sup>1</sup> Washington State Department of Ecology and Bureau of Reclamation (Ecology and Reclamation). 2005. Columbia River Mainstem Storage Options, Washington. Prepared by Montgomery Watson Harza. December 2005.

<sup>2</sup> Golder Associates Inc. (Golder). 2006. Preliminary Draft Report to U.S. Bureau of Reclamation on Appraisal Assessment of Yakima River Pump Back Alternative Delivery System for Roza and Sunnyside Irrigation Districts.

<sup>3</sup> Bureau of Reclamation. 2004. Summary Report Appraisal Assessment of the Black Rock Alternative. Technical Series No. TS-YSS-7. December 2004.

<sup>4</sup> Based on 20-35% of Direct Construction Costs, except for the pumpback costs which represent the costs associated with two plans for delivery. The cost estimates represent a total cost estimate that includes field construction costs plus additional costs estimated at 20-35% of the estimated field construction costs. Field construction costs represent costs associated with the cost of construction contracts. Additional costs include noncontract costs such as preparation of final engineering designs and specifications, regulatory compliance and permitting activities, environmental mitigation and monitoring, and construction contract administration and management.



**Table 4-12. Potential Small Storage Opportunities<sup>1</sup>**

Name	County	Volume (AF)
Beaver Restoration Pilot, Wetland Storage	Asotin/Garfield/Columbia/Whitman	NA
Wymer Dam and Reservoir <sup>2</sup>	Kittitas/Yakima	174,000
Reservoirs (multiple)	Chelan	5,590
Channel Migration Zone Projects (multiple)	Chelan	70
Alpine Lakes Optimization	Chelan	5,750
Uphill Reservoir	Okanogan	2,298
Elbow Coulee and Dead Horse Reservoir	Okanogan	5,253
Beaver Creek Alternative	Spokane/Pend Oreille/Stevens	1,850
Buck Creek Alternative	Spokane/Pend Oreille/Stevens	4,750
Saltese Flats Restoration	Spokane/Pend Oreille/Stevens	11,400
Wetland Restoration Complexes A & B	Spokane	1,225
Catchment/Balancing Basins	Spokane	600
Courtney Canyon Dam	Spokane	992
Spangle Creek Dam	Spokane	496
Smith Creek Dam	Spokane	534

**NOTES**

Abbreviations: NA: Not Applicable

<sup>1</sup> Based on information in WRIA 32 Watershed Plan, WRIA 35 Watershed Plan, WRIA 37/38/39 Watershed Plan, WRIA 45 Watershed Plan, WRIA 48 Watershed Plan, WRIA 55/57 Watershed Plan, WRIA 56 Watershed Plan, and Bureau of Reclamation. 2006. Yakima River Basin Storage Alternatives Appraisal Assessment. Technical Series No. TS-YSS-8. May 2006.

<sup>2</sup> Wymer Dam and reservoir option has an estimated cost of \$340 - \$380 million.

**Table 4-13.** Washington Water Right General Use Designations

General Use Designation	Use Code	General Purpose of Use
Agriculture	DY	Dairy
	FP	Frost Protection
	IR	Irrigation
	ST	Stock Watering
Commercial and Industrial	CI	Commercial and Industrial Manufacturing
	CO	Cooling for industrial purposes
	HW	Highway
	MI	Mining
Domestic	RW	Railway
	DG	Domestic General
	DM	Domestic Multiple
	DS	Domestic Single
Environment and Wildlife	HE	Heat Exchange
	MU	Domestic Municipal
	RE	Recreation
	EN	Environmental Quality
	FR	Fire Protection
	FS	Fish Propagation
	WL	Wildlife Propagation

**NOTES**

Reference: Department of Ecology.

[http://www.ecy.wa.gov/programs/wr/rights/Images/pdf/wtrrts\\_purposecodes.pdf](http://www.ecy.wa.gov/programs/wr/rights/Images/pdf/wtrrts_purposecodes.pdf)

**Table 4-14.** Total Existing Washington Water Rights within the Management Zone<sup>1</sup>

County	Total Water Rights	Q <sub>a</sub> <sup>2</sup> (AFY)
Benton	1,199	1,081,696
Chelan	547	1,171,862
Douglas	1,125	747,382
Ferry	332	18,005
Franklin	950	581,314
Grant	199	3,297,220
Kittitas	74	14,022
Klickitat	470	87,392
Lincoln	276	508,124
Okanogan	398	91,765
Skamania	385	154,763
Stevens	805	38,834
Walla Walla	319	400,829
Yakima	8	1,378
<b>Total</b>	<b>7,087</b>	<b>8,194,586</b>

**NOTES**

Abbreviations: AFY: acre-feet per year

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Q<sub>a</sub> for water records are calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.61 AFY OR 1 CFS = 724.46 AFY).

**Table 4-15. Oregon Management Zone Water Records<sup>1</sup>**

Use Designation	No. of Records <sup>6</sup>	Q <sub>a</sub> <sup>7</sup> (AFY)
Agriculture <sup>2</sup>	334	561,453
Commercial & Industrial <sup>3</sup>	36	46,798
Domestic <sup>4</sup>	132	327,939
Environment & Wildlife <sup>5</sup>	49	5,927,321
<b>Total</b>	<b>551</b>	<b>6,863,511</b>
<b>Total excluding Environment and Wildlife (instream non-consumptive uses)</b>	<b>502</b>	<b>936,190</b>

**NOTES**

Abbreviations: AFY: acre-feet per year; cfs: cubic feet per second; Q<sub>a</sub>: annual quantity

<sup>1</sup> Oregon State Water Rights Information System (WRIS). Excerpt of water rights and applications with points of diversion within the 1 mile management zone. Provided by OWRD September 14, 2006.

Records appearing to be duplicative were deleted.

<sup>2</sup> Q<sub>a</sub> does not include 116,726 AFY of supplemental rights that are not used at the same time as primary rights. Q<sub>a</sub> was calculated using an average duty rate of 4.5 acre-feet per acre to account for season of use. Agriculture incorporates the following use codes: AG, CH, CI, CR, DB, FR, GH, I\*, IC, ID, IL, IR, IS, LV, LW, NU, and OI.

<sup>3</sup> Commercial and Industrial incorporates the following use codes: AH, CM, GT, IM, LA, LD, MI, MS, RW, SH, and SM.

<sup>4</sup> Domestic incorporates the following use codes: AS, CS, DI, DN, DO, DS, GD, HC, MP, MU, QM, R3, RA, RC, RR, SC, and SW.

<sup>5</sup> Environment and Wildlife uses were identified by OWRD as non-consumptive uses. Environment and Wildlife incorporates the following use codes: AQ, CF, F1, F2, F3, F4, F5, F6, F7, F8, FE, FI, FM, FP, FW, GR, PA, PF, PM, R1, R2, RF, and WI. Note that most of this amount is associated with 4 records.

<sup>6</sup> Water records may include records of surface, reservoir or groundwater, permit, claim or application.

<sup>7</sup> Q<sub>a</sub> for water record is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.61 AFY OR 1 CFS = 724.46 AFY).

**Table 4-16. Interruptible Water Rights within the Management Zone**

County	Total Number of Water Rights <sup>1</sup>	Total Acres Irrigated	Total Q <sub>i</sub> (CFS) <sup>2</sup>	Total Q <sub>a</sub> (AFY) <sup>3</sup>
Benton	71	17,761	396	66,210
Chelan	36	1,984	45	9,280
Douglas	86	4,563	189	19,695
Ferry	3	27	<1	52
Franklin	31	14,491	297	60,431
Grant	7	50,246	1,151	215,208
Kittitas	8	1,162	103	7,596
Klickitat	8	461	9	1,776
Lincoln	7	620	13	1,993
Okanogan	63	10,230	167	29,780
Skamania	0	NA	NA	NA
Stevens	10	91	1	295
Walla Walla	29	15,603	328	74,788
Yakima	0	NA	NA	NA
<b>Totals</b>	<b>359</b>	<b>117,239</b>	<b>2,699</b>	<b>487,104</b>

**NOTES**

Abbreviations: Q<sub>i</sub>: instantaneous quantity; Q<sub>a</sub>: annual quantity; NA: Not applicable

<sup>1</sup> Includes surface and ground water rights on the mainstem Columbia and Snake Rivers. Does not include interruptible rights associated with power (PO).

<sup>2</sup> Q<sub>i</sub> for ground water records converted from GPM to CFS using a 1 GPM = 0.002228 CFS conversion factor.

<sup>3</sup> Q<sub>a</sub> for water records are calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.61 AFY OR 1 CFS = 724.46 AFY).

**Table 4-17.** Estimate of Permit-Exempt Wells within the Management Zone<sup>1</sup>

County	Number of Exempt Wells	Estimated Water Use (AFY)
Benton	266	1,491
Chelan	122	684
Douglas	141	790
Ferry	87	488
Franklin	206	1,155
Grant	113	633
Kittitas	2	11
Klickitat	83	465
Lincoln	217	1,216
Okanogan	59	331
Skamania	34	191
Stevens	385	2,158
Walla Walla	90	504
Yakima	2	11
<b>Total within the Management Zone</b>	<b>1,807</b>	<b>10,127</b>

**NOTES**

Abbreviations: AFY: acre-feet per year

<sup>1</sup> Based on data provided by Ecology on August 7, 2006 (Ecology, personal communication, 2006). Ecology provided the query results from the Notice of Intent database of the exempt wells that are within the one mile corridor of the Columbia River (Management Zone). Eight wells in Spokane County were included in the data provided by Ecology but not included in this table. However, the information in this database is limited for the following reasons. Well drillers were not required to file logs before 1971; therefore, there are more wells in the one-mile corridor than is recorded in this table. Additionally, Ecology built the database in 1993 and did not populate it with data before that time. Furthermore, the database may contain redundant entries because of deepening and reconditionings. The legal water use limit for a permit exempt well is 5,000 gpd. However, actual use varies according to purpose of use.

**Table 4-18. USGS Water Use Classifications and Year 2000 Results by County<sup>1</sup>**

County	Domestic (public supplied) (AFY)	Domestic (self-supplied) (AFY)	Crop Irrigation (AFY)	Golf Course Irrigation (AFY)	Industrial (AFY)	County Total (AFY)
Adams	2,780	1,468	209,610	123	2,500	216,481
Asotin	4,125	235	224	123	0	4,707
Benton	14,684	3,721	265,656	1,311	84,180	369,552
Chelan	6,580	2,242	56,382	818	16,253	82,275
Columbia	583	247	4,831	56	90	5,807
Douglas	3,497	594	27,462	347	3,744	35,644
Ferry	404	740	5,033	45	325	6,547
Franklin	9,079	2,477	489,838	191	1,962	503,547
Garfield	314	168	572	45	11	1,110
Grant	11,075	5,941	1,042,446	2,287	3,598	1,065,347
Kittitas	7,342	1,558	223,061	516	1,580	234,057
Klickitat	2,320	1,054	29,704	146	3,116	36,340
Lincoln	1,334	706	40,241	202	11	42,494
Okanogan	4,551	4,192	81,378	370	4,237	94,728
Pend Oreille	594	785	829	0	1,031	3,239
Skamania	628	460	280	235	12,666	14,269
Spokane	88,552	13,115	10,268	1,580	48,423	161,938
Stevens	2,858	2,074	10,682	146	135	15,895
Walla Walla	6,053	1,188	138,993	258	18,271	164,763
Whitman	3,632	1,009	3,139	90	0	7,870
Yakima	28,807	14,236	637,798	1,424	7,297	689,562
Oregon <sup>2</sup>	52,806	NA	768,204		26,084	847,094
<b>Use Type Totals</b>	252,598	58,210	4,056,944		235,514	4,603,266

**NOTES**

Abbreviations: AFY: acre-feet per year

<sup>1</sup> Data from Lane (2004) for Washington counties and USGS (2004) for Oregon were originally reported in million gallons per day (mgd) and converted to acre-feet per yr (AFY) (1 mgd = 1,120.91 AFY).

<sup>2</sup> Oregon includes water use from seven counties: Multnomah, Hood River, Wasco, Sherman, Gillam, Morrow and Umatilla. Data from USGS (2004).

**Table 4-19. Current and Future Water Use as Reported in Watershed Planning Documents<sup>1</sup>**

WRIA No. & Name	Current Water Use (AFY)					Future Water Use (AFY)				
	Crop Irrigation	Industrial	Domestic	Domestic	Industrial	Crop Irrigation	Industrial	Domestic	Domestic	Industrial
		(public-supplied)		(self-supplied)			(public-supplied)		(self-supplied)	
28 Salmon-Washougal <sup>2</sup>	6,844	44,242		7,752	44,686	NA	NA	NA	NA	NA
30 Klickitat <sup>3</sup>	29,459	471	1,376	871	NA	NA	NA	NA	NA	NA
31 Rock-Glade <sup>4</sup>	622,571	4,009	7,635	515	5,556	NA	NA	NA	NA	NA
32 Walla Walla <sup>5</sup>	92,500	7,891		3,800	56	NA	21,252		4,652	56
34 Palouse <sup>6</sup>	184,286	NA	7,112	2,968	NA	NA	9,630		4,868	
35 Middle Snake <sup>7</sup>	26,429	NA	500	1,286	NA	NA	NA	NA	NA	NA
37, 38 & 39 Lower Yakima, Naches & Upper Yakima <sup>8</sup>	3,020,382	74,008		41,764	NA	NA	107,686		55,630	NA
43 Upper Crab-Wilson <sup>9</sup>	26,429	4,103		1,987	NA	NA	5,714		3,103	NA
44 & 50 Moses Coulee & Foster Creek <sup>10</sup>	56,151	NA	NA	418	NA	NA	NA	15,691		NA
45 Wenatchee <sup>11</sup>	NA	5,405			NA	NA	7,950			NA
46 Entiat <sup>12</sup>	7,686	NA	50		NA	9,859	NA	NA	724	
48 Methow <sup>13</sup>	55,467	NA	210	956	NA	NA	NA	3,026		NA
55 & 57 Little Spokane & Middle Spokane <sup>14</sup>	7,676	NA	128,515	16,600	NA	NA	NA	186,504	NA	NA
56 Hangman <sup>15</sup>	7,860	1,862	6,868	1,130	6,100	NA	NA	NA	NA	NA
59 Colville <sup>16</sup>	21,600	NA	4,670	1,870	NA	29,894	NA	NA	NA	NA
60 Kettle <sup>17</sup>	NA	NA	5,311		NA	NA	NA	NA	NA	NA
62 Pend Oreille <sup>18</sup>	1,468	35	1,327	690	NA	1,800	NA	3,202		NA

See notes on next page.

Table 4-19



**NOTES**

Abbreviations: AFY: acre-feet per year; NA: Not Available.

- <sup>1</sup> No information was available for WRIAs 33, 36, 40, 41, 42, 47, 51, 52, 53, 58 and 61 because they have not begun the watershed planning process as of August 2006. In addition, watershed planning documents for WRIAs 29, 49, and 54 do not contain any specific information regarding water use.
- <sup>2</sup> Current water use for 2000. Reference: GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.
- <sup>3</sup> Current water use for 2003. Reference: Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.
- <sup>4</sup> Current water use for 2000. Reference: Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.
- <sup>5</sup> Current water use for 1997 (crop irrigation), 2000 (domestic self-supplied) and 2005 (industrial and domestic public supplied; industrial self-supplied). Future water use for 2020. Reference: HDR/EES, Inc. Walla Walla Watershed Plan. May 2005.
- <sup>6</sup> Current water use for 2000. Future water use for 2025. Reference: Golder Associates Inc. Phase II - Level I Technical Assessment for the Palouse Basin (WRIA 34). December 8, 2004.
- <sup>7</sup> Current water use for 2005. Future water use for 2025. Information on current and future water use for some of the implementation areas was not included in the table when it did not sum to total water use in the WRIA. Reference: HDR Inc. Middle Snake Watershed Plan Draft. April 2006.
- <sup>8</sup> Current water use for 2000. Future water use for 2020. Reference: Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.
- <sup>9</sup> Current water use for 2003. Future water use for 2028. Reference: Kennedy/Jenks Consultants. 2005. Watershed Assessment Report WRIA 43. November 2005.
- <sup>10</sup> Current water use year not reported. Future water use for 2025. Reference: Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.
- <sup>11</sup> Current water use for 2002. Future water use for 2025. Reference: WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.
- <sup>12</sup> Current water use for 2004. Future water use for 2025. Future domestic public and self-supplied was reported as 65 AF/yr. Reference: WRIA 46 Planning Unit. 2004. Management Plan. October 2004.
- <sup>13</sup> Current water use year not reported. Future water use for 2015. Reference: Methow Basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005.
- <sup>14</sup> Current water use year not reported. Future water use for 2020. Current industrial public and self-supplied was reported as 38,183 AF/yr. Reference: Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.
- <sup>15</sup> Current water use for 2000. Current water use does not include 5,817 AF/yr for commercial uses. Reference: Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.
- <sup>16</sup> Current water use for 2001. Future water use for 2025. Current industrial public and self-supplied was reported as 239 AF/yr. Reference: GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005.
- <sup>17</sup> Current water use for 2000. Reference: GeoEngineers. 2004. Level I Technical Assessment Water Resource Inventory Area 60, Kettle River Watershed. March 16, 2004.
- <sup>18</sup> Current water use for 2000. Future crop irrigation water use for 2008 and future domestic public and self-supplied water use for 2020. Reference: Golder Associates. 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to The Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004.

**Table 4-20.** Comprehensive Plan Summary for Counties along the Mainstem of the Columbia River<sup>1</sup>

County	Existing Land Use (acres)				Trends
	Agriculture <sup>2</sup>	Range land & undeveloped	Urban <sup>3</sup>	Other	
Benton <sup>4</sup>	526,037	208,223	65,339	296,311	<b>Land Use</b> <ul style="list-style-type: none"> <li>Expansion of agricultural acreage through conversion of undeveloped or rangeland to dryland/ irrigated crop production.</li> <li>Growth of commercial retail centers and the rural population.</li> <li>Construction of residential/golf course communities.</li> </ul> <b>Water</b> <ul style="list-style-type: none"> <li>Regionally, declining ground water levels in lower aquifers, and declining water quality in upper aquifers.</li> <li>Nitrate contaminations occur principally in upper aquifer wells drilled in the lower lying areas of the county.</li> <li>As federal and state-sponsored conservation projects reduce or eliminate diluting seepage from irrigation district canals, nitrate concentrations in the upper aquifer may actually rise.</li> </ul>
Chelan <sup>5</sup>	123,731	NA	NA	NA	<b>Land Use</b> <ul style="list-style-type: none"> <li>Based on a trend from 1987 to 1997, there is an apparent shift to larger farming operations and a significant decrease in the number of farms, in all but the largest farm operations.</li> </ul>
Grant <sup>6</sup>	690,291	768,163	32,625	296,135	<b>Land Use</b> <ul style="list-style-type: none"> <li>Most of the new housing in Grant County will locate in the UGAs during the next twenty years.</li> </ul>
Kittitas <sup>7</sup>	--	445,943	29,730	1,010,804	NA
Okanogan <sup>8</sup>	1,240,000	NA	NA	2,171,203	NA
Yakima <sup>9</sup>	NA	NA	NA	NA	<b>Water</b> <ul style="list-style-type: none"> <li>Securing certainty in our water supply will be a major issue over the next twenty years.</li> <li>Irrigated agriculture is the biggest user of water, but recently the needs of other surface water uses (e.g., protection and restoration of anadromous fish runs) have been fiercely fought for.</li> </ul>

See notes on next page.

Table 4-20

**NOTES**

Abbreviations: UGA: Urban Growth Area; NA: Not Available

<sup>1</sup> Comprehensive Plans were not available online for Douglas, Ferry, Lincoln, Franklin, Klickitat, Skamania and Walla Walla Counties. Stevens County's comprehensive plan did not contain information that could be used in this table.

<sup>2</sup> For Benton County, this includes irrigated and dryland agriculture.

<sup>3</sup> For Benton County, this includes five cities and their Urban Growth Areas.

<sup>4</sup> Benton County (2005) reported the 2005 land use.

<sup>5</sup> Chelan County (2005) reported 1997 agricultural land use.

<sup>6</sup> The land uses for Grant County were grouped as follows: Agriculture included irrigated agriculture (340,878 acres), dryland agriculture (314,836 acres) and orchard (34,577 acres); range land and undeveloped included rangeland (183,425 acres) and unimproved/vacant (584,738 acres), urban included residential (19,872 acres) and commercial/industrial (12,753 acres), and other included not classified (296,135 acres) (Grant County, 1999).

<sup>7</sup> Other includes coniferous forest and unspecified uses (Kittitas County, 2005).

<sup>8</sup> Other land use includes 14,318 acres of mining and 46,307 acres of privately-owned forest land (Okanogan County, 2005).

<sup>9</sup> Volume II of the plan was not available online (Yakima County Planning Department, 1998).

**Table 4-21. Columbia Basin Public Water System Water Use Summary by County<sup>1</sup>**

County	Number of Connections			Population Served <sup>2</sup>	Per Capita Water Use <sup>3</sup> (gal/d)	Estimated Water Use <sup>4</sup>	
	Group A	Group B	Total			(mgd)	(AFY)
Adams	4,763	251	5,014	12,629	221	2.8	3,000
Asotin	6,905	83	6,988	20,457	192	3.9	4,000
Benton	45,178	1,484	46,662	133,511	115	15.4	20,000
Chelan	24,351	1,151	25,502	47,051	118	5.6	6,000
Columbia	1,798	15	1,813	2,869	190	0.5	600
Douglas	13,826	355	14,181	31,157	108	3.4	4,000
Ferry	1,433	131	1,564	2,594	125	0.3	400
Franklin	13,747	596	14,343	51,710	208	10.8	10,000
Garfield	752	73	825	1,482	190	0.3	300
Grant	25,069	1,057	26,126	56,806	199	11.3	13,000
Kittitas	10,209	804	11,013	26,456	302	8.0	9,000
Klickitat	6,294	232	6,526	7,352	177	1.3	1,000
Lincoln	4,074	155	4,229	6,558	188	1.2	1,000
Okanogan	11,031	1,347	12,378	21,973	192	4.2	5,000
Pend Oreille	2,319	47	2,366	679	98	0.1	100
Skamania <sup>5</sup>	NA	NA	NA	NA	NA	0.0	0
Spokane	138,157	1,114	139,271	377,688	214	80.8	90,000
Stevens	10,302	443	10,745	23,170	109	2.5	3,000
Walla Walla	16,790	430	17,220	50,409	116	5.8	7,000
Whitman	11,930	200	12,130	37,573	92	3.5	4,000
Yakima	59,230	2,456	61,686	164,843	193	31.8	40,000
Total	408,158	12,424	420,582	1,076,967	170 <sup>6</sup>	193.5	200,000

**NOTES**

**Abbreviations:** AFY: acre-feet per year; gal/d: gallons per day; NA: Not applicable; mgd: million gallons per day

<sup>1</sup> Information based on data provided by the Washington Department of Health (2006). Database cannot discern ground water vs. surface water sources. Connection information only available for water systems with approved planning documents. Includes both residential and non-residential connections. Does not include exempt well use.

<sup>2</sup> Population provided by Washington State Department of Health (2006).

<sup>3</sup> Per capita water use was calculated using population and domestic public-supplied water use data reported in Lane (2004) for each county.

<sup>4</sup> Estimated water use was calculated by multiplying the per capita water use by the population served. Estimated water use was converted into acre-feet per year (AFY) using 1 AF = 325,851 gal conversion factor.

<sup>5</sup> DOH did not provide data for Skamania County.

<sup>6</sup> This value is the average per capita water use rounded up from 167, not the total.

**Table 4-22. Summary of Public Water System Connections in the Management Zone<sup>1</sup>**

County	Number of Connections						Percent of County Connections in Mgmt Zone			Estimated Water Use in Mgmt Zone <sup>3</sup> (AFY)	
	Group A		Group B		Group A & B		Group A	Group B	Group A & B	Group A	Group B
	Mgmt Zone <sup>2</sup>	County	Mgmt Zone <sup>2</sup>	County	Mgmt Zone <sup>2</sup>	County					
Adams	NA	4,763	NA	251	NA	5,014	NA	NA	NA	NA	NA
Asotin	NA	6,905	NA	83	NA	6,988	NA	NA	NA	NA	NA
Benton	36,652	45,178	327	1,484	36,979	46,662	81%	22%	79%	13,518	121
Chelan	13,278	24,351	96	1,151	13,374	25,502	55%	8%	52%	3,240	23
Columbia	NA	1,798	NA	15	NA	1,813	NA	NA	NA	NA	NA
Douglas	12,054	13,826	253	355	12,307	14,181	87%	71%	87%	3,206	67
Ferry	345	1,433	27	131	372	1,564	24%	21%	24%	80	6
Franklin	11,948	13,747	121	596	12,069	14,343	87%	20%	84%	10,043	102
Garfield	NA	752	NA	73	NA	825	NA	NA	NA	NA	NA
Grant	2,981	25,069	53	1,057	3,034	26,126	12%	5%	12%	1,446	26
Kittitas	220	10,209	NA	804	220	11,013	2%	NA	2%	179	NA
Klickitat	2,877	6,294	62	232	2,939	6,526	46%	27%	45%	643	14
Lincoln	831	4,074	82	155	913	4,229	20%	53%	22%	272	27
Okanogan	1,779	11,031	78	1,347	1,857	12,378	16%	6%	15%	680	30
Pend Oreille	NA	2,319	NA	47	NA	2,366	NA	NA	NA	NA	NA
Skamania <sup>4</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Spokane	NA	138,157	NA	1,114	NA	139,271	NA	NA	NA	NA	NA
Stevens	1,092	10,302	33	443	1,125	10,745	11%	7%	10%	288	9
Walla Walla	1,147	16,790	75	430	1,222	17,220	7%	17%	7%	437	29
Whitman	NA	11,930	NA	200	NA	12,130	NA	NA	NA	NA	NA
Yakima	113	59,230	1	2,456	114	61,686	NA%	NA%	NA%	65	1
<b>Total</b>	<b>85,317</b>	<b>408,158</b>	<b>1,208</b>	<b>12,424</b>	<b>86,525</b>	<b>420,582</b>	<b>21%</b>	<b>10%</b>	<b>21%</b>	<b>34,097</b>	<b>455</b>

**NOTES**

Abbreviations: AFY: acre-feet per year; NA: Not applicable; Mgmt Zone: Management Zone

<sup>1</sup> Information based on data provided by the Washington Department of Health in 2006; geographic locator for management zone based on 2003 data. Database cannot discern ground water vs. surface water sources.

Connection information only available for water systems with approved planning documents. Includes both residential and non-residential connections.

<sup>2</sup> Management Zone has been defined as within one mile of Columbia River. Values represent water system sources within township, range, and section that are in the Management Zone. TRS was available for 99.8% of Group A water system connections and 87% of Group B water system connections. Water system and the number of connections are within the Management Zone if at least one source is in the Management Zone.

<sup>3</sup> Estimated water use was calculated using the population and connection information in Table 4-21. The population per connection for each county was calculated by dividing the population served in the county by the total number of connections in the county. The population per connection was assumed to be the same for Group A and B systems. The population per connection was multiplied by the number of connections to determine the population served by Group A and Group B systems within the management zone. The per capita water use from Table 4-21 was then multiplied by the estimated population served by each system and converted to AFY.

<sup>4</sup> DOH did not provide data for Skamania County.

**Table 4-23. Columbia Basin Residential Water Use by County<sup>1</sup>**

County	Population			Per Capita Water Use		Estimated Water Use <sup>7</sup>			
	OFM Total by County <sup>2</sup>	Served by Group A & B Systems <sup>3</sup>	Estimated Served by Permit- Exempt Wells <sup>4</sup>	Group A and B Systems <sup>5</sup> (gal/d)	Permit- Exempt Wells <sup>6</sup> (gal/d)	Group A and B Systems		Permit-Exempt Wells	
						(gal/d)	(AFY)	(gal/d)	(AFY)
Adams	17,300	12,629	4,671	221	250	2,791,009	3,128	1,167,750	1,309
Asotin	21,100	20,457	643	192	160	3,927,744	4,403	102,880	115
Benton	160,600	133,511	27,089	115	116	15,353,765	17,210	3,142,324	3,522
Chelan	70,100	47,051	23,049	118	119	5,552,018	6,223	2,742,831	3,074
Columbia	4,100	2,869	1,231	190	165	545,110	611	203,115	228
Douglas	35,700	31,157	4,543	108	141	3,364,956	3,772	640,563	718
Ferry	7,500	2,594	4,906	125	379	324,250	363	1,859,374	2,084
Franklin	64,200	51,710	12,490	208	210	10,755,680	12,056	2,622,900	2,940
Garfield	2,400	1,482	918	190	161	281,580	316	147,798	166
Grant	80,600	56,806	23,794	199	211	11,304,394	12,671	5,020,534	5,628
Kittitas	37,400	26,456	10,944	302	119	7,989,712	8,956	1,302,336	1,460
Klickitat	19,800	7,352	12,448	177	127	1,301,304	1,459	1,580,896	1,772
Lincoln	10,200	6,558	3,642	188	163	1,232,904	1,382	593,646	665
Okanogan	39,800	21,973	17,827	192	202	4,218,816	4,729	3,601,054	4,036
Pend Oreille	12,300	679	11,621	98	110	66,542	75	1,278,310	1,433
Skamania <sup>1</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA
Spokane	443,800	377,688	66,112	214	237	80,825,232	90,598	15,668,544	17,563
Stevens	42,100	23,170	18,930	109	111	2,525,530	2,831	2,101,230	2,355
Walla Walla	57,900	50,409	7,491	116	122	5,847,444	6,554	913,902	1,024
Whitman	42,800	37,573	5,227	92	163	3,456,716	3,875	852,001	955
Yakima	231,800	164,843	66,957	193	142	31,814,699	35,661	9,507,894	10,658
Total	1,401,500	1,076,967	324,533	NA	NA	193,479,405	216,873	55,049,882	61,706

**NOTES**

Abbreviations: AFY: acre-feet per year; gal/d: gallons per day; NA: Not applicable

<sup>1</sup> Information based on data provided by the Washington Department of Health (2006). DOH did not provide data for Skamania County. Database cannot discern ground water vs. surface water sources. Connection information only available for water systems with approved planning documents. Includes both residential and non-residential connections. Does not include permit-exempt well use.

<sup>2</sup> Population provided by the Washington State Office of Financial Management, 2006 estimate.

<sup>3</sup> Population provided by Washington State Department of Health (2006).

<sup>4</sup> Population served by permit-exempt wells estimated by subtracting the population served by Group A and B systems from the total County (OFM) population.

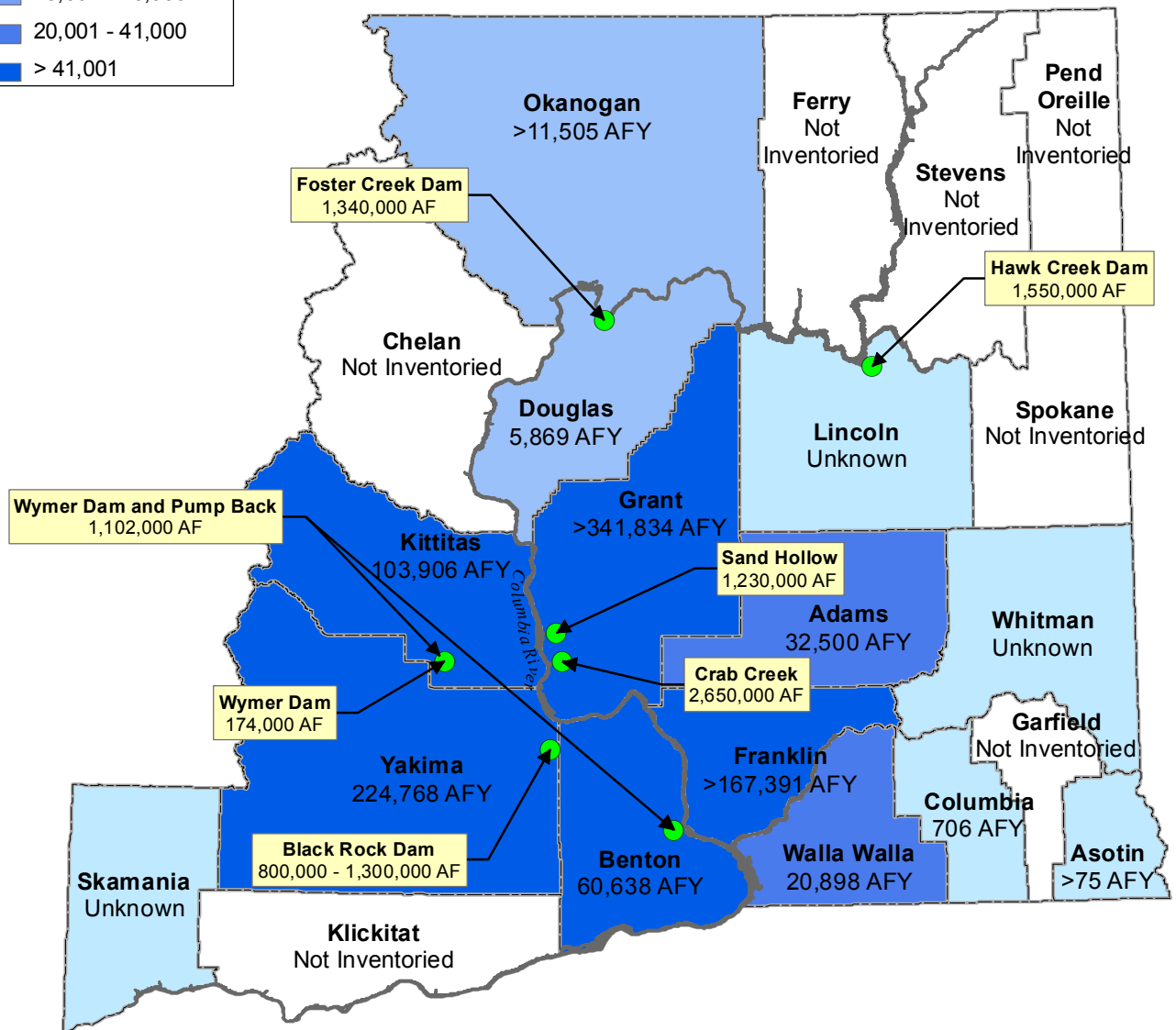
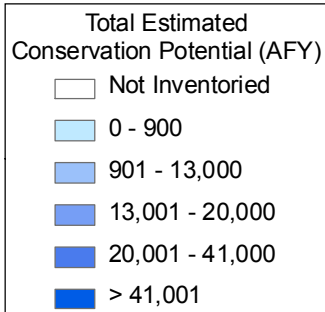
<sup>5</sup> Group A and B Systems per capita water use was calculated using population and domestic public-supplied water use data reported in Lane (2004) for each county.

<sup>6</sup> Permit-exempt well per capita water use was calculated using population and domestic self-supplied water use data reported in Lane (2004) for each county.

<sup>7</sup> Estimated water use was calculated by multiplying the per capita water use by the population served. Estimated water use was converted into AFY using 1 AF = 325,851 gal conversion factor.

## **FIGURES**





Notes:  
\* See Tables 4-5, 4-7, and 4-11.

## LEGEND

● Potential Storage Option

~ River

□ County Boundary

**AFY:** Acre-Feet per Year

25 0 25  
Scale in Miles

Map Projection:  
UTM Zone 11, NAD 83

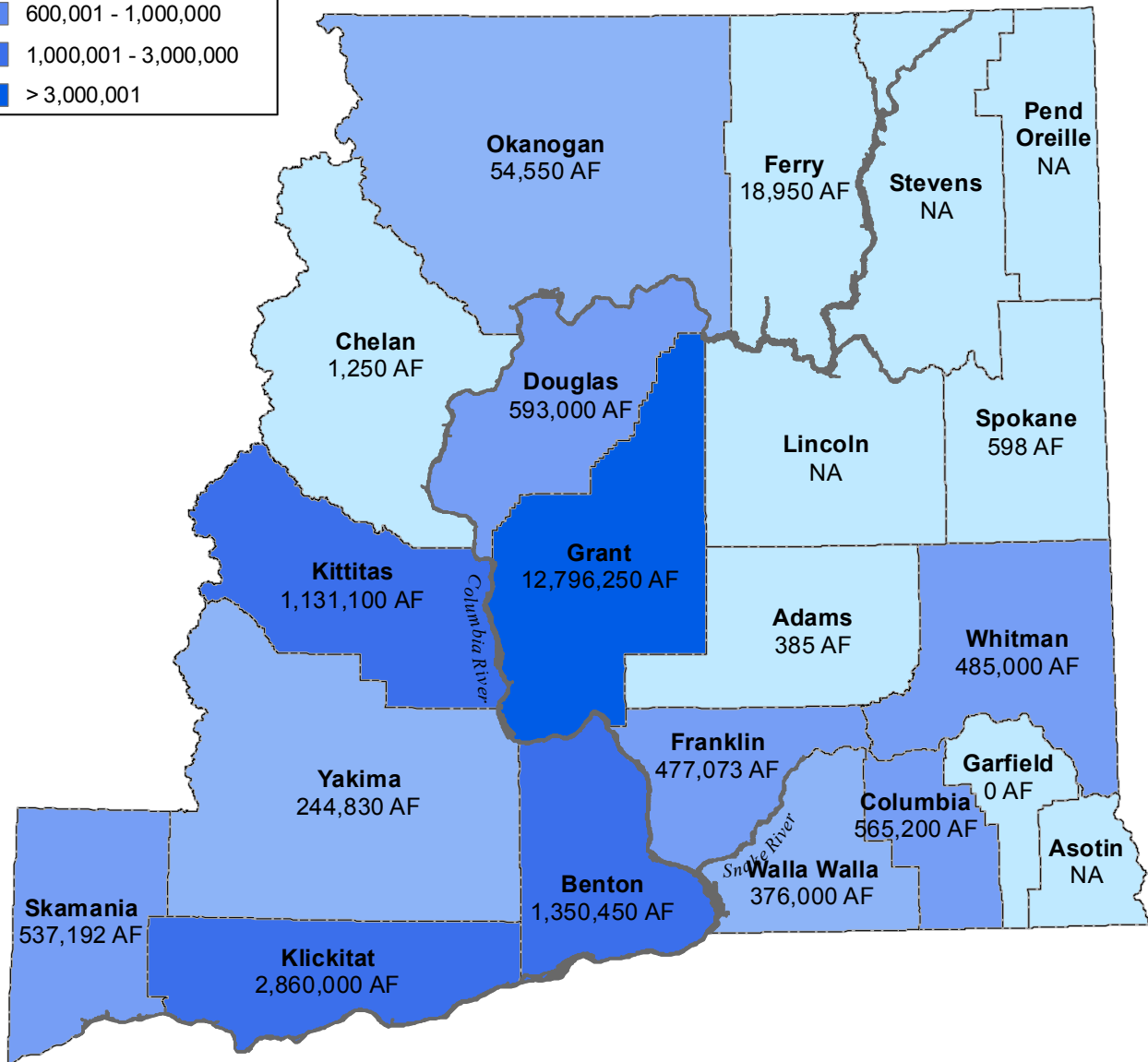
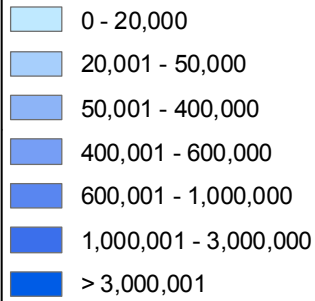
Source: Ecology, OWRD

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

## FIGURE 4-1 CONSERVATION AND STORAGE INVENTORY RESULTS

WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

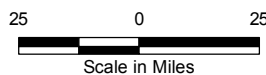
**Maximum Storage (Acre Feet)**



Note:  
 \* See table 4-9 for more detail.  
 \* Total storage includes storage for irrigation, water supply, hydropower and other uses.

**LEGEND**

- River
- County Boundary
- AF:** Acre-Feet



Map Projection:  
 UTM Zone 11, NAD 83

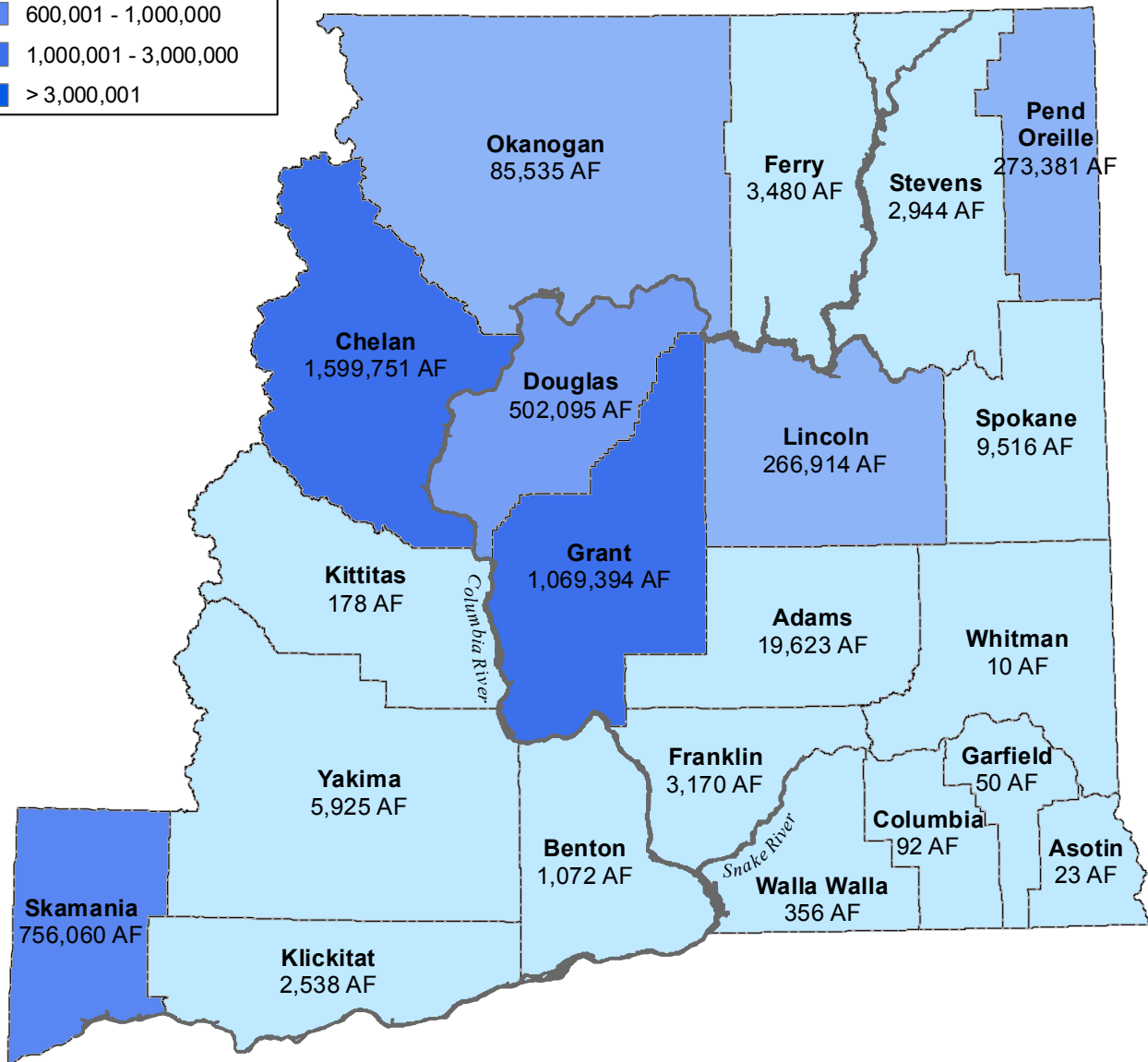
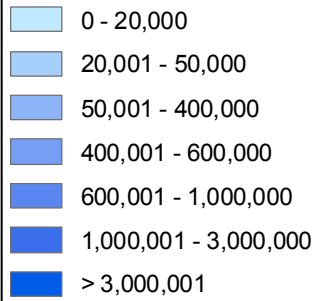
Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

**FIGURE 4-2**  
**TOTAL FEDERAL DAM**  
**STORAGE BY COUNTY**

WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

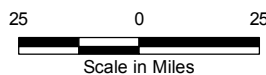
**Maximum Storage (Acre Feet)**



Note:  
 \* See table 4-10 for more detail.  
 \* Total storage includes storage for irrigation, water supply, hydropower and other uses.

**LEGEND**

- River
- County Boundary
- AF:** Acre-Feet



Map Projection:  
 UTM Zone 11, NAD 83

Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

**FIGURE 4-3**  
**TOTAL NON-FEDERAL DAM**  
**STORAGE BY COUNTY**

WSDOE/COLUMBIA BASIN WATER SPPLY/WA

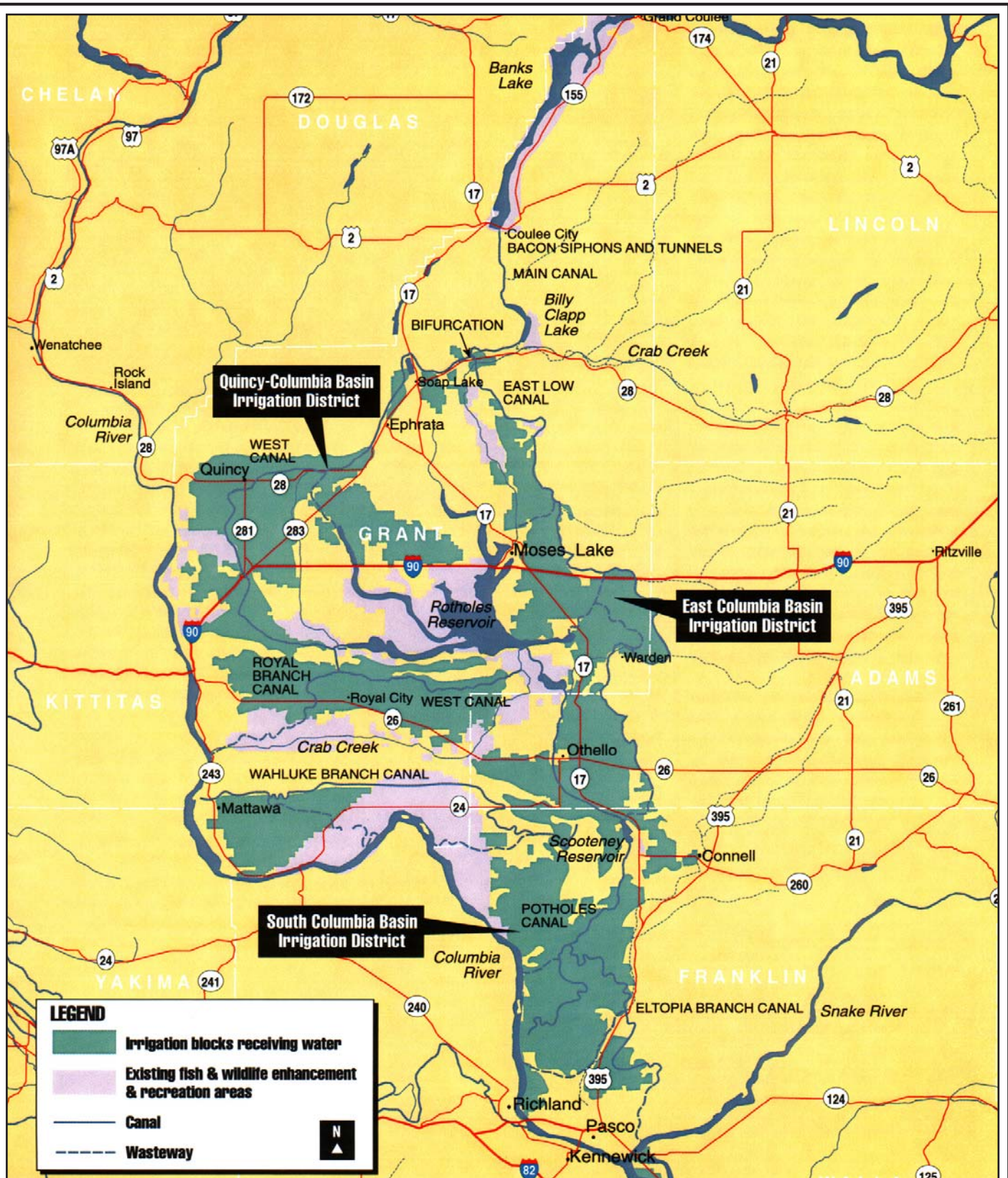


FIGURE 4-4  
**MAP OF COLUMBIA BASIN PROJECT**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

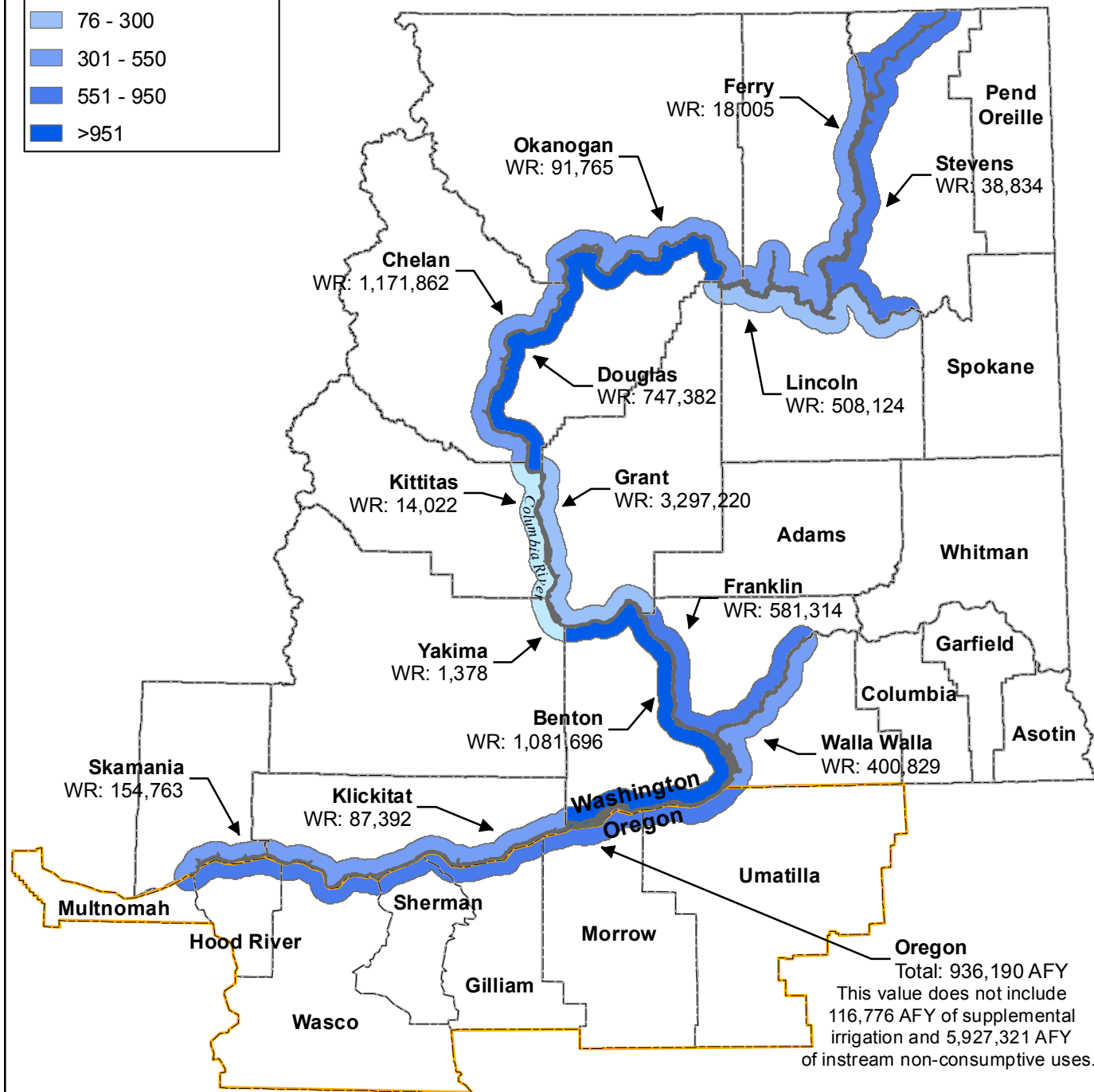
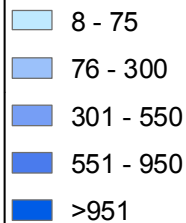
Source: Montgomery Water Group, 2006

0131500007001fig01.fh11 | Mod: 10/06/06 | AMP

**Golder Associates**



# Number of Water Rights



## Notes:

\* See Tables 4-14, and 4-15 for additional details.

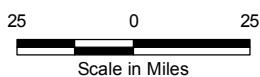
Reference: Washington State Water Rights Tracking System. Excerpt of water rights and water right application within the 1-mile management zone. Provided by Ecology August 2, 2006.

Reference: Oregon State Water Rights Information System (WRIS). Excerpt of water rights and water right application within the 1-mile management zone. Provided by OWRD September 14, 2006.

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

## LEGEND

- River
- County Boundary
- AFY:** Acre-Feet per Year
- WR:** Water Rights (AFY)

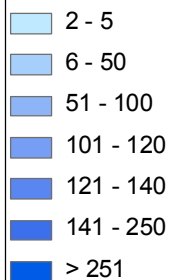


Map Projection:  
UTM Zone 11, NAD 83

Source: Ecology, OWRD

**FIGURE 4-5**  
**TOTAL WATER RIGHTS IN**  
**THE MANAGEMENT ZONE**  
WSDOE/COLUMBIA BASIN WATER SPPLY/WA

Number of Exempt Wells

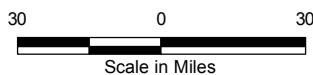


Notes:

- \* See table 4-17 for more detail.
  - \* There are 1,807 permit-exempt wells in the Management Zone.
  - \* The legal water use limit for a permit-exempt well is 5,000 gpd. However, actual use varies according to purpose of use.
- Reference: Ecology, personal communication, 2006

LEGEND

County Boundary

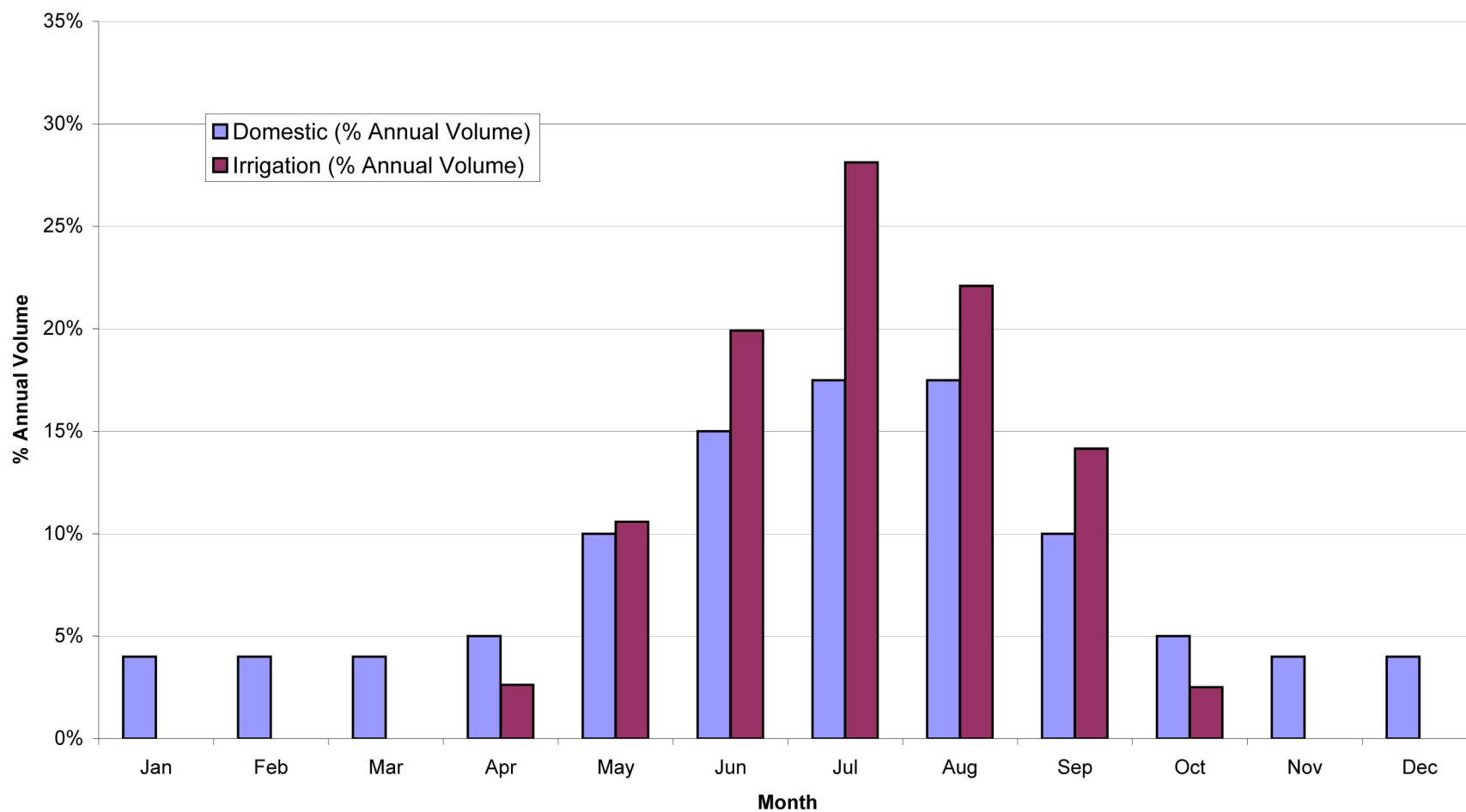


Map Projection:  
UTM Zone 11, NAD 83

Source: WSDOE

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE **4-6**  
**ESTIMATE OF**  
**PERMIT-EXEMPT WELLS**  
**IN THE MANAGEMENT ZONE**  
WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

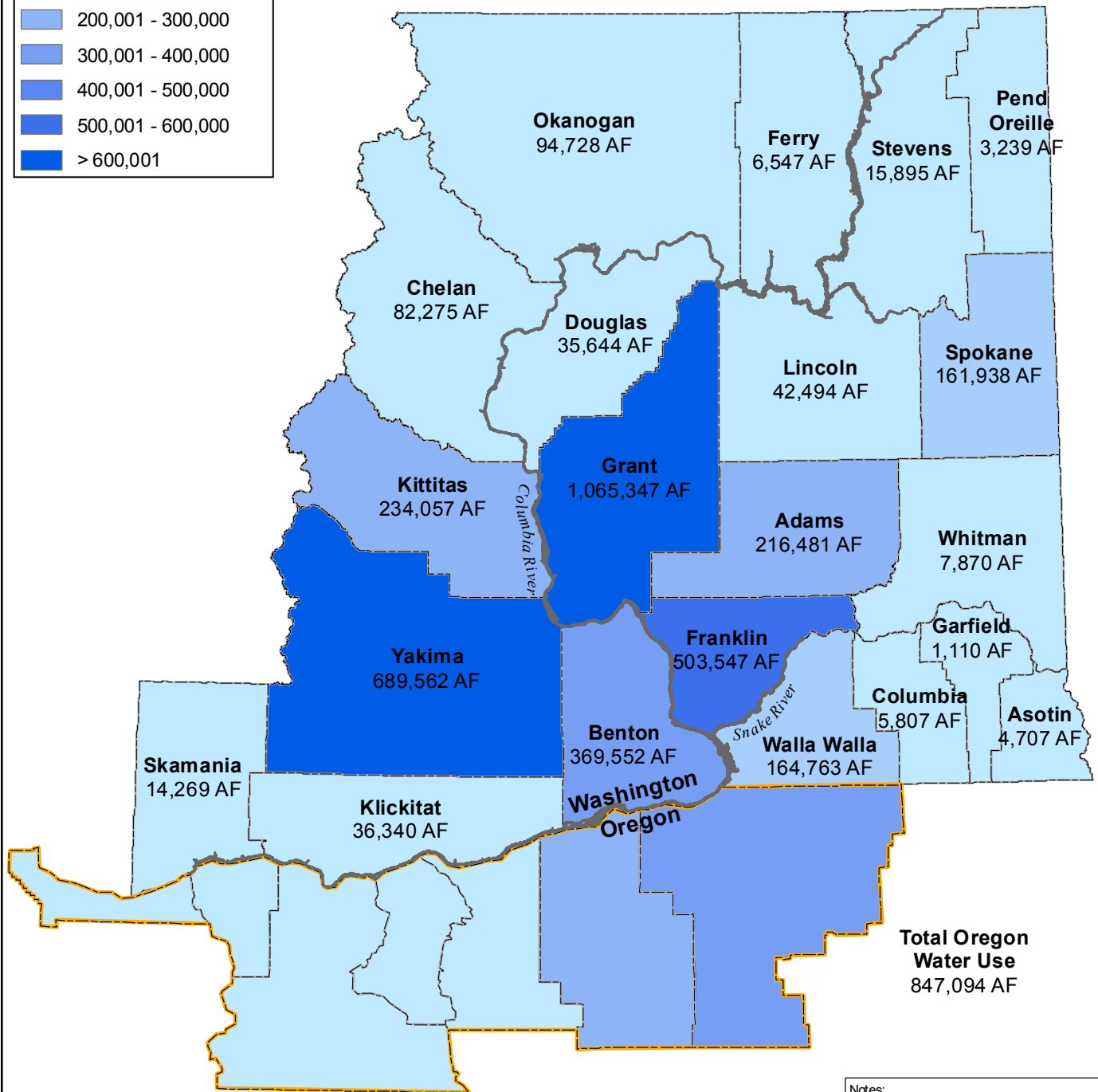
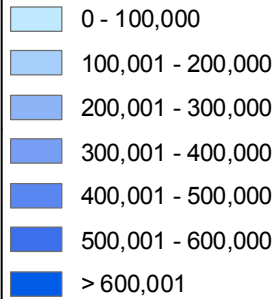


**NOTES:**

1. The figure shows approximate proportion of annual water volume that is typically used for different purposes of use.
2. Irrigation distribution based on typical crop irrigation requirement for alfalfa in Eastern Washington (WSU Irrigation Guide, 1989)

FIGURE **4-7**  
**SHAPE FACTORS**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

**Total Water Use (Acre-Feet)**



Notes:  
 \* See table 4-18 for more detail.  
 \* Oregon reflects the water use in Oregon counties along the mainstem.  
 (Gilliam, Hood River, Morrow, Multnomah, Sherman, Umatilla, Wasco).  
 References: Lane, 2004; USGS, 2004.

**LEGEND**

- River
- County Boundary
- Oregon County Boundary

25 0 25  
 Scale in Miles

Map Projection:  
 UTM Zone 11, NAD 83

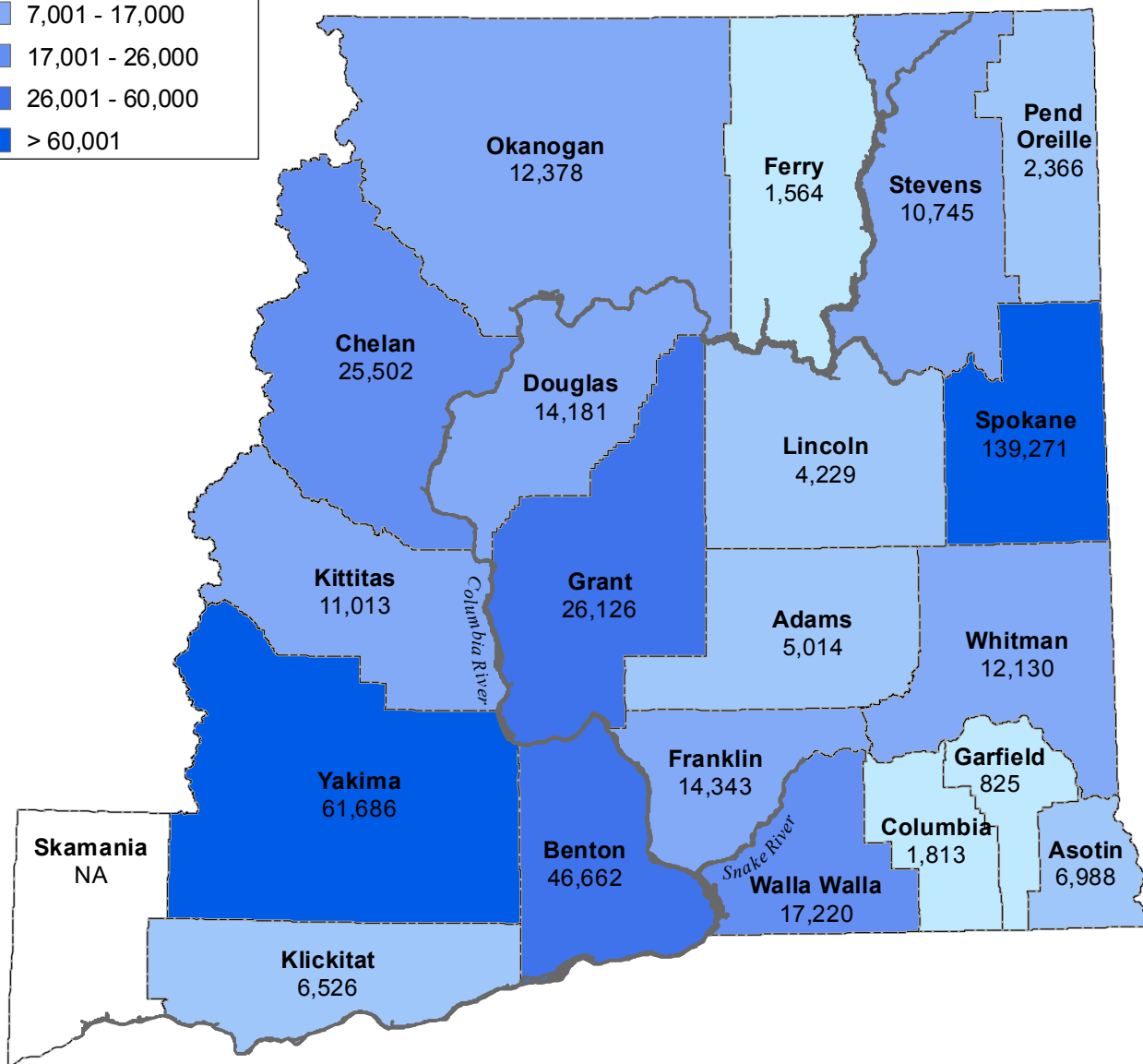
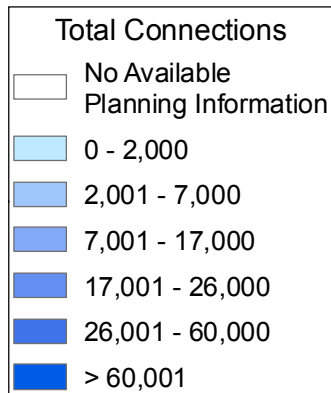
Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

**FIGURE 4-8**  
**YEAR 2000 USGS TOTAL**  
**WATER USE ESTIMATES**  
**BY COUNTY**

WSDOE/COLUMBIA BASIN WATER SPPLY/WA

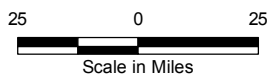




Note:  
\* See table 4-21 for more detail.

**LEGEND**

- River
- County Boundary



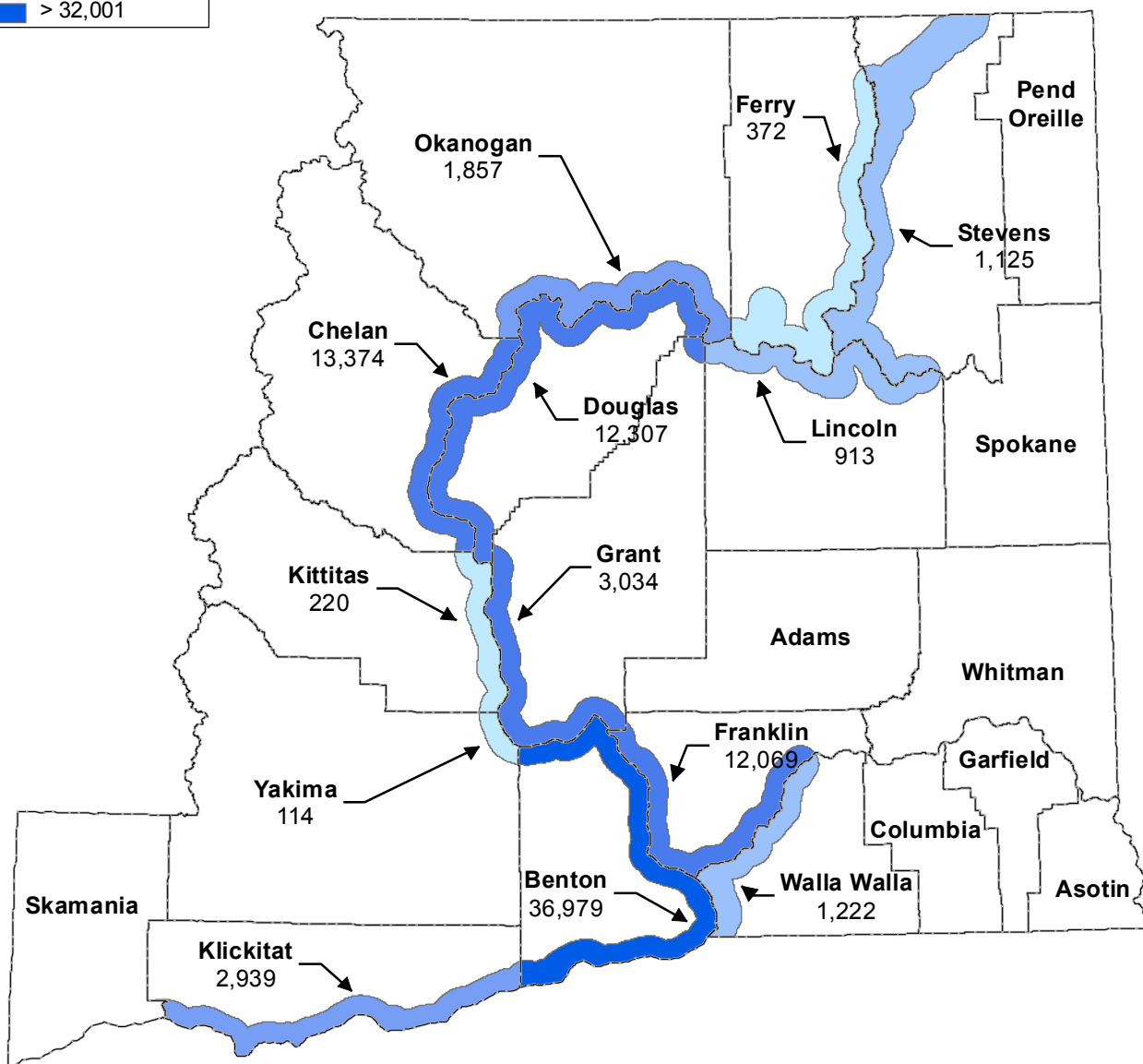
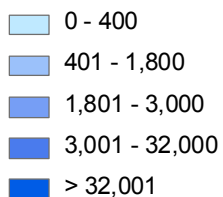
Map Projection:  
UTM Zone 11, NAD 83

Source: WSDOE, USGS

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

**FIGURE 4-9**  
**TOTAL NUMBER OF GROUP A AND GROUP B WATER SYSTEM CONNECTIONS**  
WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

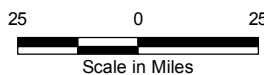
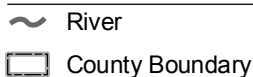
Number Of Connections



Notes: See Table 4-22 for more detail.  
Management zone exaggerated 3x actual size.

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

LEGEND



Map Projection:  
UTM Zone 11, NAD 83

Source: WSDOE, USGS

FIGURE **4-10**  
**TOTAL NUMBER OF GROUP A  
AND GROUP B WATER  
SYSTEM CONNECTIONS WITHIN  
THE MANAGEMENT ZONE**  
WSDOE/COLUMBIA BASIN WATER SPPLY/WA

## **APPENDIX C**

### **Chapter 4 Appendix**

## TABLE OF CONTENTS

C.1	CONSERVATION DISTRICT INVENTORY RESULTS	C-1
C.2	ADDITIONAL IRRIGATION DISTRICT INVENTORY INFORMATION	C-6
C.3	MUNICIPAL WATER SYSTEM PLAN INVENTORY	C-8
C.4	INVENTORY RESULTS OF DAMS IN THE COLUMBIA BASIN	C-9
C.5	WATER STORAGE OPPORTUNITIES INVENTORY RESULTS	C-10
C.6	WASHINGTON WATER RIGHT INVENTORY PROCESS	C-13
C.7	OREGON WATER RIGHTS	C-15
C.7.1	Oregon Water Code	C-15
C.7.2	Oregon Water Right Process	C-15
C.7.3	Oregon water right inventory process	C-19
C.8	WATERSHED PLAN WATER USE INVENTORY	C-21
C.9	COUNTY COMPREHENSIVE PLAN INVENTORY	C-23
C.10	MUNICIPAL PUBLIC WATER SYSTEM INVENTORY	C-24
C.11	REFERENCES	C-25
	USGS 2000 WATER USE REPORT	C-26

## LIST OF TABLES

Table C-1	Conservation District Inventory Spreadsheet and Results
Table C-2	Irrigation Districts and Companies in the Washington State Portion of the Columbia River Basin
Table C-3	Irrigation District Conservation Projects Inventory Results
Table C-4	Municipal Water System Plan Inventory Results
Table C-5	Federal Dams in the Columbia River Basin
Table C-6	Non-Federal Dams in the Columbia River Basin
Table C-7	Water Storage Opportunities Inventory Results
Table C-8	Water Rights within the Management Zone, Designated Agriculture
Table C-9	Water Rights within the Management Zone, Designated Commercial and Industrial
Table C-10	Water Rights within the Management Zone, Designated Domestic
Table C-11	Water Rights within the Management Zone, Designated Environment and Wildlife
Table C-12	Water Rights within the Management Zone, Designated Undefined
Table C-13	Oregon Water Record General Use Designations
Table C-14	Watershed Plan Water Use Inventory Results
Table C-15	County Comprehensive Plan Inventory Results
Table C-16	Municipal Public Water System Inventory: Group A Public Water Systems
Table C-17	Municipal Public Water System Inventory: Group B Public Water Systems

Table C-18	Municipal Public Water System Inventory: Group A Public Water Systems in the Management Zone
Table C-19	Municipal Public Water System Inventory: Group B Public Water Systems in the Management Zone

## C.1 CONSERVATION DISTRICT INVENTORY RESULTS

Ecology worked with Jon Culp (Washington State Conservation Commission) and its consultant team to develop a spreadsheet and instructions (below) to distribute to the conservation districts. Together the conservation districts identified over 5,000 potential projects (Table C-1) which were reported by conservation district. The table does not include any of the owner information fields, specific geographic location information fields, and in some cases, fields that did not have any information were also not included to make the table size manageable.

### Instructions for Completing the Excel Spreadsheet entitled “Water Conservation Projects Worksheet”

#### GENERAL NOTES

- Some cells contain drop-down menus where a box with an arrow (pointing downward) appears when you click on the cell. To view the list of choices, click on the box with the arrow and click on the choice in the list.
- Some cells contain instructions that appear in a box when you click on the cell.
- Optional entries are in red italics. Please, fill these columns out if you have sufficient information. The goal of this study is to include the most complete information about conservation projects throughout the Columbia Basin.
- Please do not use any underscores “\_” or special characters when making your entries.
- Please be consistent when typing in information and refrain from using abbreviations.

#### FORMAT AND CONTENTS OF EACH ENTRY

Below are instructions on how to report information for each entry and what type of information to put in each cell.

**Conservation District Submitting the Information (Required):** This is the name of the conservation district that will submit the spreadsheet to Jon Culp (Washington State Conservation Commission). Please provide the full conservation district name, without abbreviations.

**Data Collector:** Please provide the name and contact information for the person or entity that collected the data for this entry.

**Type of Entity who will Implement Project (Required):** A drop-down list has been provided to indicate the general type of entity that intends to implement the project. If your type of entity does not fit in the categories provided, choose the “other” option. It would be helpful if you explained your other choice in the last column titled “Additional Information.”

**Name of Entity who will implement Project (Required):** Please provide the full name of the organization, without abbreviations. If it is a property owner, first and last name is sufficient.

***Water Right Holder (Optional):*** This is the name that is on the water right and may not necessarily be the person who uses the water. For example, if an irrigation district holds the water right, then put the name of the irrigation district in the cell.

**Type of Project (Required):** A drop-down list has been provided to indicate the general type of project which is defined as any water savings from a water conservation program, action or measure where the end result is the reduction in the diversionary amount of a valid water right. If your project does not fit in

the categories provided, choose the “other” option. It would be helpful if you explained your other choice in the last column titled “Additional Information.” Descriptions of the general “types” of projects that have been identified for this inventory include:

- **Lining/Piping Project:** The conversion of open-ditch water conveyance delivery systems to a more efficient delivery pipe or the placement of an impermeable liner within the ditch. This is typically found in irrigation districts, companies, or associations that purvey water to multiple end-users, but can be located serving individual farms as well.
- **On-Farm Efficiencies Projects:** The installation of mechanical infrastructure Best Management Practices to a more efficient application system. Examples would include a conversion from flood or rill/furrow irrigation to center pivot technology. Also, the replacement of hand-lines to drip irrigation.
- **Management:** The application of a management system of water use that creates a water savings through scheduling changes or other management practices. Irrigation water management is an example of a management tool that may have water savings associated with its implementation.
- **Corners:** The voluntary non-irrigation and subsequent surrendering of a portion of a beneficially used water right in exchange for some monetary or other compensation where a round center pivot is installed on a square(ish) field and the landowner decides to fallow the corners in lieu of irrigating them by some other method.
- **Acquisition:** The outright selling of whole or partial water rights to the State. A landowner decides to permanently fallow a previously irrigated field or portion thereof.
- **Tail Water Reuse:** The capturing and reusing tail water from a field or conveyance system rather than returning it back to the stream. If a farmer tails the water at the end of his furrowed field into a capturing pond and pumps it back to the head of his field for reuse in lieu of diverting new water to the head of the field.
- **Re-regulating/Storage Reservoirs:** The installation of a reservoir to regulate against the fluctuations in water use within a purveying system, reducing the amount of water tailed at the end of a system. The installation of a reservoir to divert storage water when flows are beyond adequate for use when stream flows are less than adequate to meet crop demand. Storage may also be used to capture high spring runoff for use during fish flow periods to augment instream flows. Example of a re-regulating reservoir is a ditch that has a tail-water spill that is active when a ditch user closes an out-take—where a re-reg reservoir could capture some of that excess for use by down-ditch users.
- **Permanent Crop Change:** A permanent change in crop grown on a field to a less water intensive crop in exchange for some monetary or other compensation. A change from tree fruit or alfalfa to grapes would be an example. Essentially, a reduction in crop water need.
- **Split-Season Acquisition:** When a farmer voluntarily forgoes mid to late season irrigation altogether in exchange for some monetary or other compensation. When a hay farmer decides to harvest the first cutting of hay and forgo the rest of the season through a lease or contractual agreement.
- **Land Conservation Program:** A riparian or upland conservation program that removes irrigated land from production for some state or federal conservation program purposes. CREP and CRP are potential examples where irrigated agriculture may have been fallowed or put to use for some other conservation practice that does not require irrigation.
- **Power Buyback:** Where formerly irrigated lands have been voluntarily fallowed in a contractual agreement with an electrical power provider and the water right is no longer needed.
- **Surface to Ground Water Conversion:** When a well is drilled to be used as a primary source for a water right that was previously served from a surface water source. This technique may be used in some areas to mitigate for low instream flows.

## Location of Project

Please refer to the maps provided with this spreadsheet to determine the project location and diversion location.

**WRIA No. (Required):** WRIA stands for Water Resource Inventory Area. Please select the WRIA number in which the project will be located from the drop-down list. A list and map of the WRIA's in Washington is available on Ecology's website at [http://www.ecy.wa.gov/watershed/ws\\_update.html](http://www.ecy.wa.gov/watershed/ws_update.html).

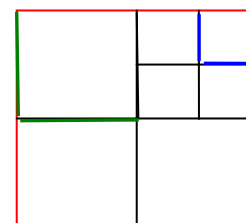
**County (Required):** Please select the county in which the project will be located from the drop-down list. Additionally, please provide as much of the optional location information as possible so the data can be incorporated into a GIS project.

**Township (Optional):** A drop-down list has been provided to choose the township in which your project will be located.

**Range (Optional):** A drop-down list has been provided to choose the range in which your project will be located.

**Section (Optional):** A drop-down list has been provided to choose the section in which your project will be located.

**¼ Section (Optional):** A drop-down list has been provided to choose the ¼ section in which the project will be located. First is within the second ¼ section. The example to the right shows the section outlined in red, the first ¼ section in blue (goes in this cell).



**¼ Section (Optional):** A drop-down list has been provided to choose the ¼ section in which the project will be located. This is the larger ¼ section. The ¼ section in green goes in this cell following the example above.

**Columbia River Mainstem Segment (Required):** [PLACEHOLDER] A drop-down list has been provided to choose the correct segment of the 1 mile buffer on either side of the mainstem of the Columbia River in which the project is located. Refer to the maps provided to determine the correct letter that represents this segment.

**Parcel No. (Optional):** Please provide the parcel number(s) on which the project will be located. If the project covers more than one parcel number, please record at least one in this cell and note the fact that it covers multiple parcels in the 'Additional Details' column. Please insert a comma between multiple parcel number entries.

**Water Right No. (Optional):** Please provide the water right number associated with the water that will be conserved by this project. If the project covers more than one water right number, please record them all in this cell using a comma between entries.

**Additional Details (Optional):** This space has been provided to allow you to record more informal ways that your project can be located.



**Location of Diversion of Water Source (if applicable)**

**Irrigation Entity Name (Required):** If the water comes from an irrigation district or other type of organization, please provide the name of the entity.

**Stream Name (Required):** A drop-down list has been provided the streams in the Columbia Basin. If your stream is not in the list, choose the “other” option and record the name of the stream in the “Additional Details” column.

**Well Name or # (Required):** Please provide the well name or number associated with the water that will be conserved by the project.

**WRIA No. (Required):** WRIA stands for Water Resource Inventory Area. Please select the WRIA number in which the project will be located from the drop-down list. A list and map of the WRIA’s in Washington is available on Ecology’s website at [http://www.ecy.wa.gov/watershed/ws\\_update.html](http://www.ecy.wa.gov/watershed/ws_update.html).

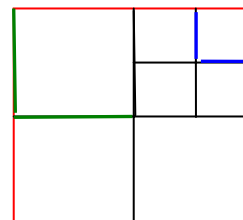
**County (Required):** Please select the county in which the project will be located from the drop-down list.

**Township (Optional):** A drop-down list has been provided to choose the township in which your project will be located.

**Range (Optional):** A drop-down list has been provided to choose the range in which your project will be located.

**Section (Optional):** A drop-down list has been provided to choose the section in which your project will be located.

**¼ Section (Optional):** A drop-down list has been provided to choose the ¼ section in which the project will be located. First is within the second ¼ section. The example to the right shows the section outlined in red, the first ¼ section in blue (goes in this cell).



**¼ Section (Optional):** A drop-down list has been provided to choose the ¼ section in which the project will be located. This is the larger ¼ section. The ¼ section in green goes in this cell following the example above.

**Columbia River Mainstem Segment (Required):** [PLACEHOLDER] A drop-down list has been provided to choose the correct segment of the 1 mile buffer on either side of the mainstem of the Columbia River in which the surface or groundwater diversion is located. Refer to the maps provided to determine the correct letter that represents this segment.

**Additional Details (Optional):** This space has been provided to allow you to record any other information about the source of water.

**Estimated Water Savings (Required):** Please provide the estimated water savings to the nearest acre-foot/yr.

**Estimated Cost (\$)** (Required): Please provide the estimated cost of the project to the nearest dollar.

**Year of Estimated Cost** (Required): Please provide the year in which the cost estimate was developed. This will allow us to convert the cost into current dollars.

**When will the project be implemented** (Required): Please select the time frame in which the project is expected to be implemented (not necessarily completed). If it is unknown, then choose “unknown.”

**Priority of Project by Entity Implementing the Project** (Required): Please indicate the level or priority assigned to the project by the entity that will be implementing the project. If it is unknown, then choose “unknown.”

**Project Description** (Required): Describe project with information such as inventory requires a detailed description of the project to include such information as existing infrastructure/situation, proposed infrastructure/situation, primary benefits of implementation, number of acres, crop type, length of pipe or lining, and entity's readiness to proceed. Provide enough detail to understand the project.

**Description of Secondary Benefits** (Required): Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc. If there are no secondary benefits, then state “None.”

**Citation** (Required): This will enable us to obtain further information if necessary. It can be either a personal communication or a document (reference document, website, etc), depending on where the information was found. See the following examples to determine how to reference the source.

Personal Communication, Name of person, affiliation, phone number, email, mailing address.

Association of Cities and Ecology. 1999. Draft Guide to Watershed Planning and Management.  
Ecology Publication No. 99-106.

Ecology. 2006. Watershed Planning Updates by watershed. Internet Address:  
[http://www.ecy.wa.gov/watershed/ws\\_update.html](http://www.ecy.wa.gov/watershed/ws_update.html). Accessed 20 July 2006.

**Additional Information (Optional)**: This space has been provided for you to explain any of the instances where you chose “other” from a drop-down menu and to add any other information about your project that was not captured in the rest of the spreadsheet.

## PRINTING THE WORKSHEET

- The sheet is formatted to print on 11x17 in landscape.
- When you print the worksheet, be sure to select the number of pages that you want to print (or else you will print > 50 pages).

## COMMON EXCEL FUNCTIONS

**To copy the contents of a cell**: Select the cell by clicking once, and then place your cursor on the bottom left corner of the cell so that the cursor is a “+” sign, click, hold, and drag down over the cells you want to contain the same information, and release.

## C.2 ADDITIONAL IRRIGATION DISTRICT INVENTORY INFORMATION

The conservation projects inventory request (see Section 1) was distributed to irrigation districts that are members of the Washington State Water Resources Association (WSWRA) and to other districts by individual contact (Table C-2). The districts and companies have been separated according to their affiliation with the WSWRA. In addition, a number of water conservation plans completed by irrigation districts were also obtained and reviewed. From this information, additional projects were identified and added to the water conservation inventory. The irrigation district conservation project inventory (Table C-3) is a compilation of the results of the inventory request and reviewing the following irrigation district and company documents. Table C-3 does not include the owner information fields.

Buchert, Rob. 2006. Personal correspondence. Palouse Conservation District.

CH2M Hill. 1994. South Naches Irrigation District Comprehensive Water Conservation Plan. February 1994.

CH2M Hill. 1995. Outlook Irrigation District Comprehensive Water Conservation Plan. November 1995.

CH2M Hill. 1996. Kiona Irrigation District Comprehensive Water Conservation Plan. February 1996.

CH2M Hill. 1999. Union Gap Irrigation District Water Conservation Plan. April 1999.

CH2M Hill. 2001. Kittitas Reclamation District Water Conservation Plan, Addendum #1.

Crowley, Mark. 2006. Personal correspondence. Kittitas County Conservation District.

Davids Engineering. 2000. Benton Irrigation District Water Conservation Plan. March 2000.

Dudek, Britt. 2006. Personal correspondence. Foster Creek Conservation District.

Economic and Engineering Services. 2004. Gardena Farms Irrigation District Comprehensive Irrigation District Management Plan.

Fales, Darwin. 2006. Personal correspondence. Quincy-Columbia Basin Irrigation District.

Farrens, Greg. 2006. Personal correspondence. Walla Walla Conservation District.

Harter, Justin. 2006. Personal correspondence. Naches-Selah Irrigation District.

HDR. 2006. Snake River Region Salmon Recovery and Walla Walla Watershed Detailed Implementation Plan.

Hull, Ron. 2006. Personal correspondence. Grant Conservation District.

Montgomery Water Group. 1995. East Columbia Basin Irrigation District Comprehensive Water Conservation Plan. September 1995.

Montgomery Water Group. 2000. Greater Wenatchee Irrigation District. Water Conservation Plan. June 2000.

- Montgomery Water Group. 2000. Yakima-Tieton Irrigation Project Water Conservation Plan.
- Montgomery Water Group. 2001. South Columbia Basin Irrigation District Water Conservation Plan. July 2001.
- Montgomery Water Group. 2002. Brewster Flat Irrigation District Water Conservation Plan. June 2002.
- Montgomery Water Group. 2002. Okanogan Irrigation District Water Conservation Plan. May 2002.
- Montgomery Water Group. 2002. Quincy-Columbia Basin Irrigation District Water Conservation Plan. March 2002.
- Montgomery Water Group. 2005. Whitestone Reclamation District Water Conservation Plan. June 2005.
- Montgomery Watson Harza. 2002. Water Conservation Study for Manastash Creek Water Users. December 2002.
- Natural Resources Consulting Engineers. 1999. Irrigation Water Conservation and Management Plan for the Wapato Irrigation District. May 1999.
- Nielson, Mark. 2006. Personal correspondence. Franklin Conservation District.
- SCM Consultants. 2001. Facsimile; Subject: Yakima River basin Watershed Plan. August 15, 2001.
- Selah-Moxee Irrigation District. 2000. Business Letter to Jim Esget, United States Bureau of Reclamation, Subject: Feasibility Study. September 13, 2000.
- Sonnen, Cheryl. 2006. Personal correspondence. Asotin County Conservation District.
- Sonnichsen, Wayne. 2006. Personal correspondence. Roza Irrigation District.
- Tobin, Mike. 2006. Personal correspondence. North Yakima Conservation District.
- UMA Consultants. 2000. Roza-Sunnyside Board of Joint Control Water Conservation Program Tier One Feasibility Study. March 2000.
- White, Dean. 2006. Personal correspondence. Lincoln County Conservation District.

### C.3 MUNICIPAL WATER SYSTEM PLAN INVENTORY

Water system plans for the seven largest municipalities in the Columbia Basin were reviewed for current and future water use, demand, and conservation information, including water reuse (Table C-4). Few of these plans provided quantitative information regarding current conservation and reuse. The water system plan inventory included the following plans:

Coleman, Thomas, P.E. Consulting Services, 2004. City of Yakima Water System Plan, March 2004.

Gray and Osborne, Inc. 2002. City of Chelan Water System Plan, January 2002.

HDR and EES. 2005. Quad Cities Water Right 2005 Regional Water Forecast and Conservation Plan. August 2005.

RH2 Engineering, 2004. City of Wenatchee 2003 Comprehensive Water System Plan, Volume 1. City Service Area and Facilities. March, 2004.

RH2 Engineering, 2003. City of Wenatchee 2003 Comprehensive Water System Plan, Volume 2 - Regional Service Area and Facilities. March 2004.

RH2 Engineers Inc. 2005. City of East Wenatchee Water System Plan (summarized from City of Wenatchee 2005 Comprehensive Water System Plan).

## **C.4 INVENTORY RESULTS OF DAMS IN THE COLUMBIA BASIN**

The Washington Department of Ecology Dam Inventory database was queried for a list of federal and non-federal dams in the Washington portion of the Columbia Basin. Tables C-5 and C-6 contain a list of all federal and non-federal dams in the Columbia River Basin (Washington only) including their locations, purpose of use, type, and ownership information.

## C.5 WATER STORAGE OPPORTUNITIES INVENTORY RESULTS

The water storage projects inventory water developed through a review of watershed planning documents and U.S. Bureau of Reclamation (Bureau of Reclamation) pre-appraisal studies. A list of documents reviewed is provided below. Table C-7 has the inventory results.

### Watershed Planning Documents

Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.

Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.

GeoEngineers. 2004. Level I Technical Assessment Water Resource Inventory Area 60, Kettle River Watershed. March 16, 2004.

GeoEngineers. 2004. WRIA 59 Colville River Watershed Plan. Presented to: Stevens County Board of County Commissioners. On Behalf of: Colville River Watershed Planning Team. November 15, 2004.

Golder Associates Inc. (Golder). 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to the Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004.

Golder Associates Inc. (Golder). 2004. Phase II - Level 1 Technical Assessment for the Palouse Basin (WRIA 34). December 8, 2004.

Golder Associates Inc. (Golder). 2005. Pend Oreille (WRIA 62) Watershed Management Plan. Prepared for the Pend Oreille Planning Unit. March 2005.

HDR/EES, Inc. 2005. Walla Walla Watershed Plan. May 2005.

HDR Inc. 2006. Middle Snake Watershed Plan Draft. April 2006.

Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.

Kennedy/Jenks Consultants. 2005. Watershed Assessment Report WRIA 43. November 2005.

Kennedy/Jenks Consultants, GeoEngineers, Inc., and Water & Natural Resources Group (Kennedy/Jenks). 2005. Watershed Assessment Report Water Resource Inventory Area 43 Upper Crab Creek-Wilson Creek Watershed. Prepared for Lincoln County. Prepared by Kennedy/Jenks Consultants in association with GeoEngineers, Inc. and Water & Natural Resources Group. November 2005.

Little Spokane River and Middle Spokane River Planning Unit. 2006. WRIA 55 and 57 Watershed Management Plan. January 31, 2006.

Methow Basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005.

Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.

Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.

WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.

WRIA 46 Planning Unit. 2004. Management Plan. October 2004.

### **Watershed Planning Storage Assessments**

Aspect Consulting. 2003. Multipurpose Water Storage Screening Assessment Report WRIA 30. June 20, 2003.

Aspect Consulting. 2003. Addendum to WRIA 30 Multipurpose Water Storage Screening Assessment Report. November 25, 2003.

Golder Associates Inc. (Golder). 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.

Golder Associates Inc. (Golder). 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.

Golder Associates Inc. (Golder). 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.

Golder Associates Inc. (Golder). 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.

Kennedy/Jenks Consultants. 2003. Candidate SASR Sites Hydrogeology, Walla Walla Basin Aquifer Recharge. Prepared for Economic and Engineering Services, Portland, Oregon.

Montgomery Water Group (MWG). 2006. Chelan County Natural Resource Program Multi-Purpose Water Storage Assessment in the Wenatchee River Watershed. March 8, 2006 Draft.

Pacific Groundwater Group and Montgomery Water Group (MWG). 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.

### **Federal Documents**

Bonneville Power Administration (BPA). 2005. 2004 Pacific Northwest Loads and Resources Study (2004 White Book) Operating Years 2006 Through 2015. Updated November 15, 2005.

United States Bureau of Reclamation. 2004. Summary Report Appraisal Assessment of the Black Rock Alternative. December 2004.

United States Bureau of Reclamation. 2006. Yakima River Basin Storage Alternatives Appraisal Assessment. May 2006.



Washington State Department of Ecology and U.S. Bureau of Reclamation (Ecology and Reclamation). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. Prepared by Montgomery Watson Harza (MWH). December 2005.

## C.6 WASHINGTON WATER RIGHT INVENTORY PROCESS

Data was provided to Golder by Ecology in two GIS files (Ecology, pers. comm., 2006). The two files were joined by GIS and exported into an Excel file. The data included all water rights and water right applications within 1 mile of the Columbia River. A summary of the data by use type is presented in Tables C-8 through C-12.

Three columns were inserted into the joined Excel file. A column headed “RecordType” was inserted after the column headed “Doc\_Type”. This column was used to sort water rights from water right applications. A column for calculations was inserted prior to the column headed “QA\_Total” and a column headed “PurposeDesignation” was inserted just after the column headed “PURPOSE\_LI”. An AutoFilter was placed on the heading row, and sorted according to use.

An assumption was made that the primary use of a water right would be listed first in the PURPOSE\_LI column. The general use designation (GUD) assigned to each water right was based on the first purpose of use code (PUC) listed and all subsequent PUCs were ignored. Many of the water rights list several PUCs, which may encompass more than one GUD. PUC codes for Washington are provided in Table 4-13.

The Agriculture GUD incorporates the dairy, frost protection, irrigation and stock watering PUCs. The Commercial and Industrial GUD incorporates the cooling for industrial purposes, commercial and industrial manufacturing, highway, mining, and railway PUCs. The Domestic GUD incorporates domestic general, domestic multiple, domestic single, heat exchange, domestic municipal and recreation PUCs. The Environment and Wildlife GUD incorporates the environmental quality, fire protection, fish propagation, and wildlife propagation PUCs. The Undefined GUD incorporates rights where the primary use was not provided or an unrecognized (non-standard) PUC. Records coded for power (PO) were assumed to refer to hydropower. Because water used to generate hydropower can be used downstream for other uses, all queries were filtered to exclude water right records coded for PO to eliminate counting the water demand twice.

After GUDs were assigned to each record, the table was sorted by water record type. The records were sorted into two categories, water rights and water right applications. Water right records include Adjct Cert, Cert, Claim, Claim L, Claim S, Drought2005, Pmt, and Short Term document types.

After the data was sorted by document type, the data was sorted by water source in the column headed RCW\_CLASS. The water sources include G (ground water), S (surface water), and R (reservoir water). Because water used in reservoirs can be used downstream for other uses, the data was filtered to exclude reservoir water from all queries to eliminate counting the water demand twice.

The data was sorted for blanks in the column headed “QA\_Total”. When no  $Q_a$  (annual quantity) was reported, a  $Q_a$  was calculated in a separate column using the  $Q_i$  (instantaneous quantity) provided. An assumption was made that the  $Q_i$  would be used twenty-four hours a day every day of the year. The  $Q_i$  provided for surface water is typically reported in cubic feet per second (CFS) and the  $Q_i$  provided for ground water is typically reported in gallons per minute (GPM). The equations below were used to determine the  $Q_a$  in acre-feet per year (AFY).

For  $Q_i$  reported in CFS:

$$(Q_i) \left( \frac{0.0000229568 \text{ AF}}{1 \text{ CF}} \right) \left( \frac{60 \text{ S}}{1 \text{ Min}} \right) \left( \frac{60 \text{ Min}}{1 \text{ Hour}} \right) \left( \frac{24 \text{ Hour}}{1 \text{ Day}} \right) \left( \frac{365.25 \text{ Day}}{1 \text{ Y}} \right) = Q_a$$

Or  $Q_i$  multiplied by 724.4615.

For  $Q_i$  reported in GPM:

$$(Q_i) \left( \frac{0.000003069 \text{ AF}}{1 \text{ G}} \right) \left( \frac{60 \text{ Min}}{1 \text{ Hour}} \right) \left( \frac{24 \text{ Hour}}{1 \text{ Day}} \right) \left( \frac{365.25 \text{ Day}}{1 \text{ Y}} \right) = Q_a$$

Or  $Q_i$  multiplied by 1.6141.

## C.7 OREGON WATER RIGHTS

The following description of Oregon water rights is from on a booklet published by OWRD (2002).

### C.7.1 Oregon Water Code

Under Oregon law, all water is publicly owned. With some exceptions, cities, farmers, factory owners, and other water users must obtain a permit or water right from the Oregon Water Resources Department (Department) to use water from any source.

Oregon's water laws are based on the principle of prior appropriation. This means the first person to obtain a water right on a stream is the last to be shut off in times of low streamflows. In water-short times, the water right holder with the oldest date of priority can demand the water specified in their water right regardless of the needs of junior users. If there is a surplus beyond the needs of the senior right holder, the water right holder with the next oldest priority date can take as much as necessary to satisfy needs under their right and so on down the line until there is no surplus or until all rights are satisfied. The date of application for a permit to use water usually becomes the priority date of the right.

### C.7.2 Oregon Water Right Process

In Oregon water rights are obtained in a three-step process. The applicant first must apply to the Department for a permit to use water. Once a permit is granted, the applicant must construct a water system and begin using water. When water is applied the permit holder must hire a certified water right examiner to complete a survey of water use and submit to the Department a map and a report detailing how and where water is being applied. If water has been used according to the provisions of the permit, a water right certificate is issued based upon the report findings.

Water rights are not automatically granted. Opportunities are provided for other water right holders and the public to protest the issuance of a permit. Water users can assert that a new permit may injure or interfere with their water use, and the public can claim that issuing a new permit may be detrimental to the public interest. This provides protection for both existing water users and public resources.

#### Water-Use Permits

##### *The First Step: requesting a water-use permit*

A permit is the authorization from the Department necessary to begin constructing a water system and begin using water. Once the Department issues a permit, if the user complies with the conditions of the permit and develops the water use, the Department cannot later decide to revoke or change the permit or impose new standards for the use.

It is important that application instructions are carefully followed. If application materials are incomplete, they will be returned to the applicant.

The requirements outlined in the Oregon statutes and the Department's administrative rules generally require the Department to issue a final order approving or denying the application within eight months.

#### Application Review

During the application review stage, applications are examined by the Department to ensure that allowing the proposed use will not cause injury to other users or public resources. The Department also determines if water is likely to be available for use and considers many other factors in its analysis of the application.

These factors include basin plan restrictions that might prohibit certain uses or further appropriations, local land use restrictions, impacts on sensitive, threatened or endangered species, water quality, and other state and federal rules. Also during the application review stage, other water right holders, government agencies, and the public may comment on or protest the application.

***The Second Step: constructing the system and using water***

Once the Department determines that a new water use can be allowed, a permit is issued. The permit will contain time limits to develop the water use. Other conditions may also be placed on the permit, such as a requirement for metering the water use, reporting water use, or installing and maintaining fish screens. Permits generally require the water user to develop the water use within four or five years. The permit holder may apply for an extension of time to fully develop the water use.

***The Third Step: “proving up” the water use***

Once the water project is completed, the permit holder must send notice to the Department that work has been completed. The permit holder is then required to submit proof of water use to the Department.

Except for certain small ponds, a water user must hire a certified water right examiner (CWRE) to survey the extent of water use and within one year of completion (or the completion date, whichever is sooner) submit a map and claim of beneficial use to the Water Resources Department. This allows the Department to evaluate the extent of water use developed within the terms and conditions of the permit.

***Final Certificates: the “perfected” water right***

With the final proof survey map and water-use report, the Department will determine if the permit holder has met the conditions of the permit. If so, a water right certificate is issued. The water right certificate will continue to be valid as long as the water is used according to the provisions of the water right at least once every five years.

The amount of water allowed in the certificate will be an instantaneous rate and/or an annual amount. The appropriator may divert a certain maximum rate but may not exceed the total amount allowed for the year. The instantaneous rate is usually expressed in cubic feet per second (cfs) or gallons per minute (gpm) and the annual amount in acre-feet (af).

A water right permit or certificate will not guarantee water for the appropriator. Under the prior appropriation doctrine, the water right authorizes diversion of water only to the extent water is available. The amount of water available to a water right holder depends on the water supply and the needs of senior priority date water rights, including water rights for instream use.

### **7.2.1 Water Dedicated to Instream Uses**

The Department also approves water rights for protecting fish, minimizing the effects of pollution, or maintaining recreational uses. These water rights are called “instream water rights”. Instream water rights establish flow levels to remain in a stream on a month-by-month basis and are usually set for a certain stream reach and measured at a specific point on the stream. Instream water rights have a priority date and are regulated in the same way as other water rights.

Oregon law also allows water right holders to sell, lease, or donate water rights to be converted to instream water rights. This is done through a short-term lease agreement or by a formal transfer of the existing right from the current use to a new type of use.

## 7.2.2 Rights to Store Water

### Reservoirs and Ponds

The construction of a reservoir or pond of any size to store water requires a permit from the Department. A permit to construct a reservoir allows storage of streamflow and is usually filled from higher streamflows that occur during the winter months.

A permit for a reservoir with the sole purpose of storing water is considered the primary permit. Permittees intending to divert and use or maintain water stored in the reservoir or pond, will need an additional, or secondary, water use permit.

## 7.2.3 Other Water Rights

### Rights Through Customary Use

If water was used prior to enactment of the 1909 water code and has been used continuously since then, the property owner may have a “vested” water right. Because a water right is attached to the place of use, this is true even if the ownership of the property has changed.

A claim to a vested water right can be determined and made a matter of record only through a legal process known as an “adjudication proceeding.” The responsibility of the Department in the adjudication process is to gather information about the use of water and present its findings to the circuit court in the county where the water is used. The court then issues a decree that states who has the right to use water, the amount and location of water use, and the priority date for each right. The Water Resources Department then issues a water right certificate for each decreed right. The date of priority for a right determined through an adjudication proceeding is usually the date construction of the project began or the date when water was first used on the property.

### Limited Licenses

Oregon law also provides a method for obtaining permission to divert and use water for a short-term or fixed duration. Under current law, certain types of uses can be allowed using a “limited license” provided that water is available and the proposed use will not injure other water rights. These authorizations allow landowners and developers to use water for purposes that do not require a permanent water right. Limited licenses are “junior” to all other uses and subject to revocation at any time. There is no guarantee that water will be available.

## 7.2.4 Transfer Process

### *Permanent Transfers*

A water user proposing to change the point of diversion, place of use, or character of use for a water right must submit an application describing the current water right, the proposed change, and provide evidence of water use, land ownership or consent by the landowner, and, in most cases, compliance with local land use plans. An application for a permanent transfer generally requires a map prepared by a certified water right examiner (CWRE). The water may continue to be used in accordance with the current water right until the transfer is approved. Use as proposed may only occur once the transfer order is issued.

To approve a transfer application, the Department must determine that the proposed change will not injure other water rights and that all other criteria are met.. The public is offered a chance to comment on the application and protest the Department’s Preliminary Determination if they believe the transfer should not

be approved. The Department, working with the applicant, may attach conditions to an approval order to eliminate potential injury to other water rights. If conditions acceptable to the applicant are not sufficient to eliminate injury, the application is denied.

After the transfer is approved, the applicant must make the change. In the case of a change in use or place of use, any portion of the water right involved in the transfer that is not changed is lost. Following completion of the change, a CWRE must prepare a final proof map and site report to be submitted with the applicant's claim of beneficial use. The map and claim of beneficial use describe the completed change and the extent of the modified water right. A new water right certificate will be issued to confirm the modified water right. The new certificate retains the priority date of the originating right.

### ***Temporary Transfers***

A water user may temporarily change the place of use of a water right to allow a right attached to one parcel of land to be used on another parcel. A temporary transfer may not exceed a period of five years. This type of transfer is typically used for crop rotations or other rotational uses of water. The application for a temporary transfer is the same as the permanent transfer, however the required map does not have to be prepared by a CWRE.

### ***Other Transfers***

If a government action causes a change in surface water levels that impairs the use of an authorized point of diversion, a special transfer process is available to change the point of diversion. This process is available for both certificated water rights and permits.

### ***District Transfers***

Irrigation districts and certain other districts that deliver water may apply for a specific kind of transfer that allows the district to make several transfers in a single annual application. Districts may also take control and transfer unused water rights within the district after specific notification to the landowner. Districts may transfer a point of diversion for one irrigation season in the event that an emergency prevents the district from diverting at the authorized point of diversion.

### ***Transfers and Leases for Instream Use***

Water rights may be transferred or leased for instream uses. Instream transfers and leases must show that injury will not occur and that a beneficial use will be made of the water, such as fishery habitat or flow augmentation to improve water quality. Instream transfers and leases carry the priority date of the original right. The water may not be diverted by any junior user while it is an instream right or lease.

### ***Permanent and Time-Limited Instream Transfers***

The instream water right statutes allow a water right to be permanently transferred to instream use or transferred for a specific period of time. At the end of a time-limited instream transfer, the right automatically reverts back to its original place and type of use. Time-limited instream transfers are generally used for periods of time exceeding five years; otherwise, the instream leasing process is the preferred option.

### ***Instream Leasing***

The instream leasing program allows water right holders a way to protect water rights that are currently unused while also providing instream benefits. Leases go through an expedited review process. The term of an instream use lease cannot exceed five years, but it may be renewed.

### ***Ground Water Registration Modifications***

Ground water registrations are claims for rights to use ground water established prior to 1955 and for which the Department has issued certificates of registration. The Department may recognize a change in use, place of use, or point of appropriation for a ground water registration if the Department determines that the change will not injure other water rights.

#### **7.2.5 Canceling Water Rights**

A water right remains valid as long as it is not cancelled and beneficial use of the water is continued without a lapse of five or more consecutive years. According to Oregon law, except for municipal rights and in certain other cases, if any portion of a water right is not used for five or more consecutive years, that portion of the right is presumed to have been forfeited and is subject to cancellation.

Once a water right has been unused for five consecutive years or more, it is subject to cancellation even if the property owner begins to use the water again. Under the law, the right is presumed to be forfeited and reuse does not reinstate the right. This is true even if the current owner did not own the property when use was discontinued. Under certain conditions, however, such as extreme drought and federal set-aside programs, non-use may exceed five consecutive years without forfeiture of the right.

Cancellation of a forfeited water right is not automatic. Cancellation requires a legal proceeding to determine whether or not the period of non-use has occurred. If more than 15 years have passed since the period of non-use, the water right is not subject to cancellation. A legal proceeding is not necessary if the landowner voluntarily authorizes cancellation.

#### **C.7.3 Oregon water right inventory process**

Data were provided to Golder by the Oregon Water Resources Department (OWRD) on four separate sheets in an Excel file (OWRD, pers. comm., 2006). The data included all water rights and water right applications within 1 mile of the Columbia River, above the Bonneville Dam. The one mile corridor along the Columbia River is called the Management Zone.

While there were unique identification numbers provided by OWRD to link the four sheets into one, Golder chose to base all data reported in this inventory from the sheet labeled “WR PoD Use”.

Two columns were inserted into the Excel file. A column headed “PurposeDesignation” was inserted after the column headed “Use Code”. A column for calculations was inserted prior to the column headed “Acre feet Qnty”.

An AutoFilter was placed on the heading row, and sorted according to use. The data reported by OWRD listed only one use code per record. The general use designation (GUD) assigned to each water right was based on the purpose of use code (PUC) listed that was provided by OWRD. These PUC codes were categorized into larger GUD categories for Oregon and are provided in Table C-13.



The Agriculture GUD incorporates the agriculture, cranberry, dairy, frost protection, green house, irrigation, livestock and nursery PUCs, and also primary and supplemental rights. The Commercial and Industrial GUD incorporates the commercial, manufacturing, laboratory, mint still, log deck sprinkling, sawmill, mining shop and road construction PUCs. The Domestic GUD incorporates aesthetic, recreation, domestic, human consumption and municipal PUCs. The Environment and Wildlife GUD incorporates the instream, fire protection, forest management, groundwater recharge, pollution abatement fisheries and wildlife PUCs. Records coded for power (PW) were assumed to refer to hydropower. Because water used to generate hydropower can be used downstream for other uses, all queries were filtered to exclude water right records coded for PW to eliminate counting the water demand twice. However, this same process was not used for other non-consumptive uses such as instream water rights. It is also noted that both primary and supplemental irrigation rights were included in the Agricultural GUD, creating the potential for double counting in this category.

The data was sorted for blanks in the column headed “Acre feet Qnty”. When no  $Q_a$  (annual quantity) was reported, a  $Q_a$  was calculated in a separate column using the  $Q_i$  (instantaneous quantity) provided. An assumption was made that the  $Q_i$  would be used twenty-four hours a day every day of the year regardless of type of use or season of use identified in the right. The exception was that irrigation was calculated using an assumed standard duty of 4.5 acre feet per acre. All of the  $Q_i$ s provided were reported in cubic feet per second (CFS). The equation below was used to determine the  $Q_a$  in acre-feet per year (AFY) and generates the maximum possible annual quantity.

For  $Q_i$  reported in CFS:

$$(Q_i) \left( \frac{0.0000229568 \text{ AF}}{1 \text{ CF}} \right) \left( \frac{60 \text{ S}}{1 \text{ Min}} \right) \left( \frac{60 \text{ Min}}{1 \text{ Hour}} \right) \left( \frac{24 \text{ Hour}}{1 \text{ Day}} \right) \left( \frac{365.25 \text{ Day}}{1 \text{ Y}} \right) = Q_a$$

Or  $Q_i$  multiplied by 724.4615.

## C.8 WATERSHED PLAN WATER USE INVENTORY

Watershed planning documents were reviewed to develop an inventory of water use within each WRIA. The categories were matched with the USGS water use categories as reported in Lane (2004). Table C-14 contains the results of the inventory. The following is a list of the documents reviewed to develop the inventory.

### Watershed Planning Documents Reviewed

Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.

Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.

GeoEngineers. 2004. Level I Technical Assessment Water Resource Inventory Area 60, Kettle River Watershed. March 16, 2004.

GeoEngineers. 2004. WRIA 59 Colville River Watershed Plan. Presented to: Stevens County Board of County Commissioners. On Behalf of: Colville River Watershed Planning Team. November 15, 2004.

Golder Associates Inc. (Golder). 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to the Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004.

Golder Associates Inc. (Golder). 2004. Phase II - Level 1 Technical Assessment for the Palouse Basin (WRIA 34). December 8, 2004.

Golder Associates Inc. (Golder). 2005. Pend Oreille (WRIA 62) Watershed Management Plan. Prepared for the Pend Oreille Planning Unit. March 2005.

HDR/EES, Inc. 2005. Walla Walla Watershed Plan. May 2005.

HDR Inc. 2006. Middle Snake Watershed Plan Draft. April 2006.

Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.

Kennedy/Jenks Consultants. 2005. Watershed Assessment Report WRIA 43. November 2005.

Kennedy/Jenks Consultants, GeoEngineers, Inc., and Water & Natural Resources Group (Kennedy/Jenks). 2005. Watershed Assessment Report Water Resource Inventory Area 43 Upper Crab Creek-Wilson Creek Watershed. Prepared for Lincoln County. Prepared by Kennedy/Jenks Consultants in association with GeoEngineers, Inc. and Water & Natural Resources Group. November 2005.

Little Spokane River and Middle Spokane River Planning Unit. 2006. WRIA 55 and 57 Watershed Management Plan. January 31, 2006.

Methow Basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005.

Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.

Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.

WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.

WRIA 46 Planning Unit. 2004. Management Plan. October 2004.

## **C.9 COUNTY COMPREHENSIVE PLAN INVENTORY**

Comprehensive plans for counties within the Management Zone were reviewed to characterize existing land use, expected land use trends, and how land use changes may impact water resources. The data available in comprehensive plans is reported in Table C-15.

## **C.10 MUNICIPAL PUBLIC WATER SYSTEM INVENTORY**

The Washington State Department of Health (DOH) provided its 2006 water system database for Group A and Group B public water systems (PWS) for the entire Columbia River Basin (DOH, pers. comm. 2006). Table C-16 has Group A public water systems and Table C-17 has the Group B public water systems. The data received from DOH did not include TRS information. However, geographic locator information for water sources, based on 2003 data, as used to identify PWSs within the Management Zone. TRS was available for 99.8% of Group A water system connections and 87% of Group B water system connections. Water systems and the number of connections were identified as being within the Management Zone if at least one source was in the Management Zone. However, one PWS with 2,050 connections was identified as being within the Management Zone. The TRS information associated with the PWS was clearly erroneous, and so it was not recorded as being within the Management Zone. Table C-18 lists the Group A public water systems in the Management Zone. Table C-19 lists the Group B public water systems in the Management Zone.

## C.11 REFERENCES

- Lane, R.C. 2004. Estimated Domestic, Irrigation, and Industrial Water Use in Washington, 2000. U.S. Geological Survey Science Investigations Report 2004-5015, 16 p. Available online at <http://pubs.usgs.gov/sir/2004/5015/>.
- Oregon Water Resources Department (OWRD). 2002. Water Rights In Oregon: An Introduction to Oregon's Water Laws and Water Rights System. May 2002.
- Oregon Water Resources Department (OWRD). personal communication. 2006. Oregon Water Rights Database. Excerpt of water rights and applications within 1 mile of the Columbia River. Provided by Oregon Water Resources Department. September 14, 2006.
- Washington Department of Health (DOH) Office of Drinking Water. personal communication. 2006. Personal Communication with Megan Nicodemus. Columbia River Data Group A Systems and Columbia River Data Group B Systems. Obtained 8/16/2006.
- Washington State Department of Ecology (Ecology). personal communication. 2006. Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile Management Zone. Provided by Ecology August 2, 2006.

## **USGS 2000 WATER USE REPORT**

# ESTIMATED DOMESTIC, IRRIGATION, AND INDUSTRIAL WATER USE IN WASHINGTON, 2000

By R.C. Lane

Since 1950, the U.S. Geological Survey has published a series of Circulars and other reports on the estimated use of water in the United States at 5-year intervals. This report presents State, regional, and county estimates of the amount of water used for domestic, irrigation, and industrial purposes in the State of Washington during the year 2000. Domestic water use was estimated to be 674 million gallons per day and the per-capita rate, 114 gallons per day. Crop-irrigation water use was estimated to be 3,005 million gallons per day and the application rate, 2.2 acre-feet per acre per year, or feet per year. Golf-course irrigation water use was estimated to be 23.6 million gallons per day and the application rate, 1.4 feet per year. Industrial water use was estimated to be 681 million gallons per day. Historically, these core categories account for about 92 percent of the estimated offstream water used in Washington.

## INTRODUCTION

**Water use**, in the broadest sense, pertains to the interaction of human activity with the hydrologic cycle. Water use can be divided into two types, **offstream** and **instream** use. Offstream use is **withdrawal** or diversion of water from a ground- or surface-water source for a specific purpose. Instream use is the use of water that remains in the ground- or surface-water source. Quantitative estimates for most instream uses are undetermined, but are important because such uses compete with offstream uses and affect the quality and quantity of water resources. As used in this report, water use refers to the offstream use of water for domestic, irrigation, or industrial purposes.

Water use in Washington has evolved in the past century from meager domestic and stock water needs to the current complex requirements of domestic-water users, large irrigation projects, industrial plants, and numerous other uses such as fish habitat and recreational activities. Although advances have been made in the ability to control, divert, and develop water supplies, little effort has gone into keeping accurate accounts of the actual amounts of water being used. With increasing competition for water (especially during periods of drought), water-use information is of considerable value in determining water availability and in making sound resource-management decisions. Although the State of Washington has begun to collect water-use information in selected basins, there is currently no statewide program requiring the reporting of water-use information to the State.

Since 1950, the U.S. Geological Survey (USGS) has published a series of Circulars and other reports on the estimated use of water in the United States at 5-year intervals (see entries under U.S. Geological Survey in "Selected References"). These reports contain State-level estimates of the amount of

**public- and self-supplied water** used for offstream commercial, domestic, industrial, irrigation, livestock, mining, power generation, and other purposes. Between 1985 and 1995, the core categories of domestic, irrigation, and industrial water use accounted for about 92 percent of the estimated offstream water use in Washington (U.S. Geological Survey, 1997a,b,c). The remaining 8 percent included public- and self-supplied water used for commercial, livestock, mining, power generation, and other uses.

## Purpose and Scope

This report presents estimates of the amount water used for offstream domestic, crop and golf-course irrigation, and industrial purposes in the State of Washington during the year 2000, and describes the methods and sources used to prepare the estimates.

## Description of Study Area

The north-south-trending Cascade Range and the prevailing wind patterns divide Washington State into two regions of distinctly different climate (Dion, 1985; Williams, 1986). Western Washington has a predominantly marine climate with cool, dry summers and mild, wet winters. Precipitation averages about 70 in/yr (inches per year), but ranges from less than 20 in/yr to about 200 in/yr. Evaporation ranges from 20 to 25 in/yr, and generally is less than precipitation. Eastern Washington has characteristics of both continental and marine climates, with hot, dry summers and cold, wet winters. Precipitation averages about 20 in/yr, but ranges from less than 7 in/yr to about 40 in/yr. Evaporation ranges from 25 to 45 in/yr, and generally exceeds precipitation.



## DOMESTIC WATER USE

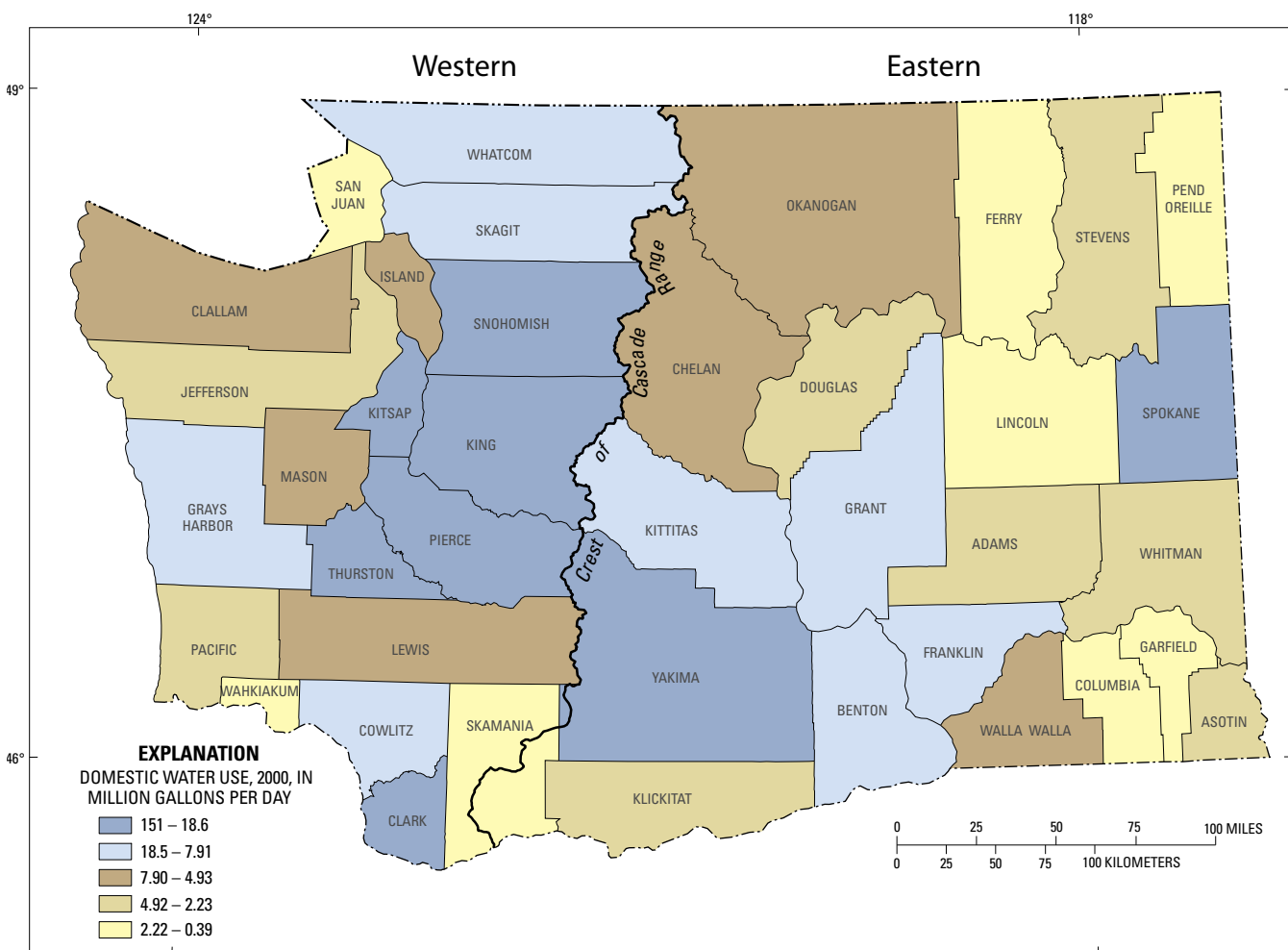
**Domestic water use** in Washington in the year 2000 was estimated to be 674 Mgal/d (million gallons per day; table 1). **Public water-supply systems** delivered 81 percent (549 Mgal/d) of the total domestic water use. Self-supplied withdrawals of ground water accounted for almost all of the remaining 19 percent (125 Mgal/d) of the total domestic use (table 1). The counties with the largest domestic use were (in descending order of use) King, Spokane, Pierce, Snohomish, Yakima, Clark, Thurston, and Kitsap Counties (fig. 1). These eight counties accounted for 73 percent (490 Mgal/d) of the total domestic water use in Washington. The per-capita domestic water use rate for the State was estimated to be 114 gal/d (gallons per day). The estimated per-capita rates for the 39 counties in Washington ranged from 87 to 238 gal/d (table 1; fig. 2).

Domestic water use in western Washington was estimated to be 445 Mgal/d, or 66 percent of the total domestic water use in the State. Public water-supply systems delivered 83 percent

### How large is a million gallons per day?

A million gallons per day as a rate of flow of water is equal to 133,680.56 cubic feet per day, or 1.5472 cubic feet per second, or 3.0689 acre-feet per day. A flow of 1 million gallons per day for 1 year equals 1,120 acre-feet (365 million gallons).

(371 Mgal/d) of the regional total. Self-supplied withdrawals of ground water accounted for the remaining 17 percent (74 Mgal/d) of the regional use. The western Washington counties with the largest domestic use were King, Pierce, Snohomish, and Clark Counties. These four counties accounted for 87 percent (388 Mgal/d) of the regional use. The per-capita domestic water-use rate for western Washington was estimated to be 97 gal/d. The estimated per-capita rates for the 19 counties in western Washington ranged from 87 to 158 gal/d.



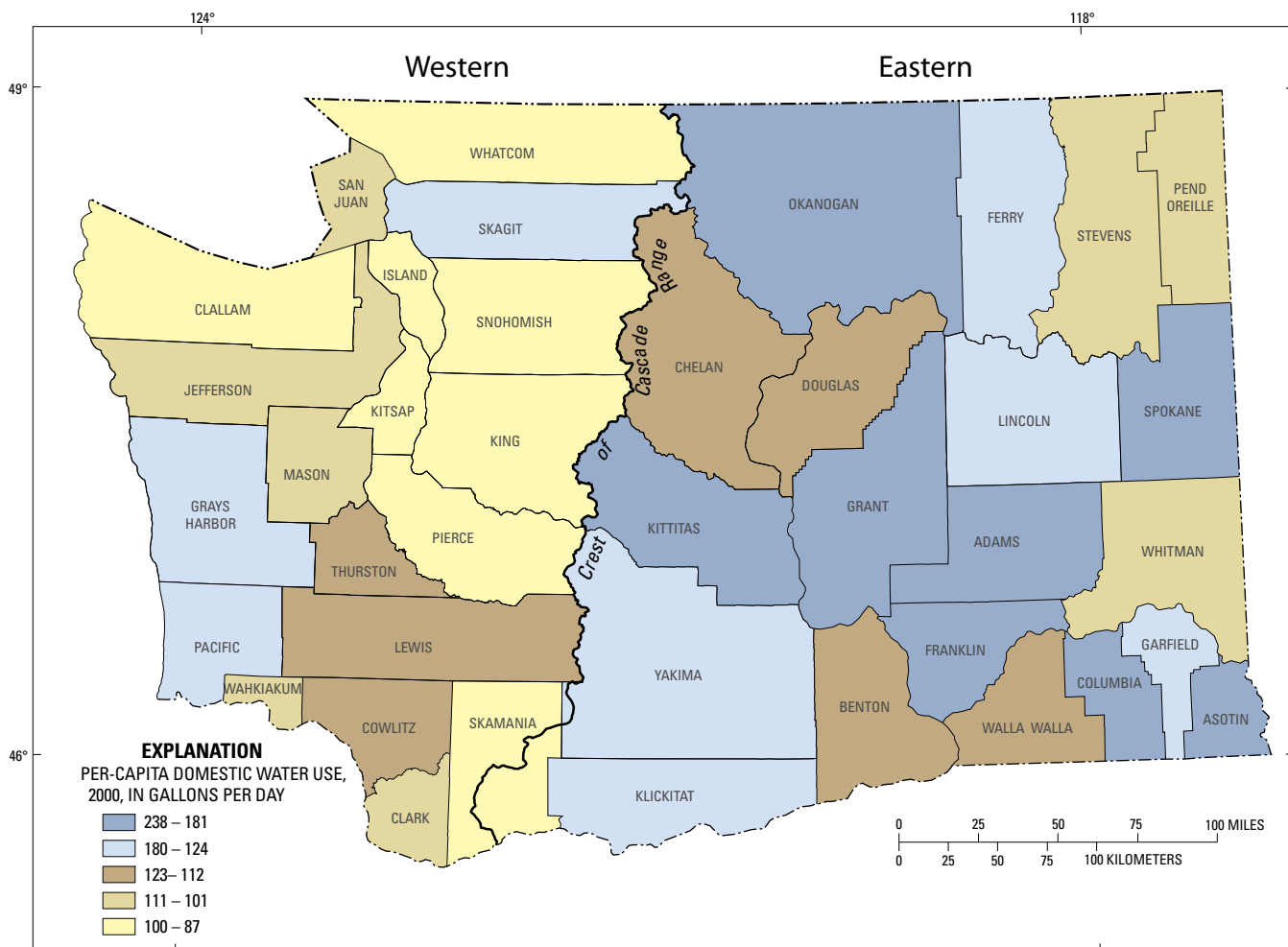
**Figure 1.** Estimated domestic water use in Washington, 2000.

**Table 1.** Estimated domestic water use in Washington by county and source, 2000

[Values may not add up to totals because of independent rounding; **Total domestic:** Per capita, values are total withdrawals + deliveries divided by population served; **Abbreviations:** Mgal/d, million gallons per day; gal/d, gallons per day]

County	Self supplied		Public supplied		Total domestic		
	Population served (thousands)	Ground water (Mgal/d)	Population served (thousands)	Water (Mgal/d)	Population served (thousands)	Total water use (Mgal/d)	Per capita water use (gal/d)
Adams	5.25	1.31	11.2	2.48	16.40	3.79	231
Asotin	1.31	.21	19.2	3.68	20.60	3.89	189
Benton	28.6	3.32	114	13.1	142.00	16.4	115
Chelan	16.8	2.00	49.8	5.87	66.60	7.87	118
Clallam	13.7	1.41	50.8	5.06	64.50	6.47	100
Clark	92.0	7.73	253	28.1	345.00	35.8	104
Columbia	1.33	.22	2.73	.52	4.06	.74	182
Cowlitz	23.4	2.69	69.5	8.00	93.00	10.7	115
Douglas	3.76	.53	28.8	3.12	32.60	3.65	112
Ferry	4.38	<sup>1</sup> .66	2.88	.36	7.26	1.02	141
Franklin	10.5	2.21	38.9	8.10	49.40	10.3	209
Garfield	.93	.15	1.47	.28	2.40	.43	179
Grant	25.1	5.30	49.6	9.88	74.70	15.2	203
Grays Harbor	11.9	1.80	55.3	8.31	67.20	10.1	150
Island	8.82	1.03	62.7	5.39	71.60	6.42	90
Jefferson	6.44	.66	19.5	1.97	26.00	2.63	101
King	144	16.0	1,595	135	1,735.00	151	87
Kitsap	41.4	4.43	191	16.2	232.40	20.6	89
Kittitas	11.7	1.39	21.7	6.55	33.40	7.94	238
Klickitat	7.43	.94	11.7	2.07	19.20	3.01	157
Lewis	34.1	3.41	34.5	4.30	68.60	7.71	112
Lincoln	3.86	.63	6.32	1.19	10.20	1.82	178
Mason	16.9	1.86	32.5	3.59	49.40	5.45	110
Okanogan	18.5	3.74	21.1	4.06	39.60	7.80	197
Pacific	4.73	.83	16.3	2.48	21.00	3.31	158
Pend Oreille	6.34	.70	5.39	.53	11.73	1.23	105
Pierce	26.0	3.06	675	63.8	701.00	66.9	95
San Juan	6.80	.78	7.28	.66	14.10	1.44	102
Skagit	33.9	4.23	69.1	8.57	103.00	12.8	124
Skamania	4.14	.41	5.73	.56	9.87	.97	98
Snohomish	103	10.6	504	50.1	606.00	60.7	100
Spokane	49.3	11.7	369	79.0	418.00	90.7	217
Stevens	16.7	1.85	23.4	2.55	40.10	4.40	110
Thurston	70.9	8.65	136	16.8	207.00	25.5	123
Wahkiakum	.90	.09	2.92	.30	3.82	.39	102
Walla Walla	8.66	1.06	46.5	5.40	55.20	6.46	117
Whatcom	35.4	3.93	131	12.0	167.00	15.9	95
Whitman	5.53	.90	35.2	3.24	40.70	4.14	102
Yakima	89.4	12.7	133	25.7	223.00	38.4	172
State	994	<sup>1</sup> 125	4,905	549	5,890.00	674	114

<sup>1</sup>Includes 0.02 million gallons per day surface-water withdrawal.



**Figure 2.** Estimated per-capita domestic water use in Washington, 2000.

Domestic water use in eastern Washington was estimated to be 229 Mgal/d, or 34 percent of the total domestic water use in the State. Public water-supply systems delivered 77 percent (179 Mgal/d) of the regional total. Self-supplied withdrawals of ground water accounted for almost all of the remaining 23 percent (52 Mgal/d) of the regional total. The eastern Washington counties with the largest domestic use were Spokane, Yakima, Benton, and Grant Counties. These four counties accounted for 71 percent (163 Mgal/d) of the regional use. The per-capita domestic water-use rate for eastern Washington was estimated to be 175 gal/d. The estimated per-capita rates for the 20 eastern Washington counties ranged from 102 to 238 gal/d.

The estimates of public-supplied water use are based on data from the Washington State Department of Health (WDOH), the U.S. Census Bureau, and withdrawal and use information collected by the USGS during an inventory of selected public water-supply systems. A list of all registered public water-supply systems in Washington was obtained from the WDOH on-line database (Washington State Department of Health, 2001). The database contains the names, locations, service populations, and other data for all 16,677 registered

public-water systems in the State. The database does not, however, contain information on water withdrawals and use.

The USGS collected withdrawal and usage data from 178 (7.5 percent) of the 2,340 registered **Class A Systems**. The selected systems accounted for 51 percent of the total public-supplied population. The criteria for selecting supply systems were to provide spatial coverage of each county in the State and to include a representative mix of the **municipal**, **non-municipal**, or **other** types of public-supply systems in the individual counties.

The withdrawal and use data from the inventoried systems in each county were used to calculate domestic per-capita use rates for the non-inventoried systems in that county. Each non-inventoried system was assigned a per-capita rate based on the type of system, and that rate was multiplied by the system's service population to produce a system-level estimate of domestic water use. These system-level estimates and service populations were summed to produce the county-level estimates of public-supplied domestic water use, population served, and per-capita use of public-supplied water.

**Table 2.** Estimated crop-irrigation water use in Washington by county and source, 2000[Values may not add up to totals due to independent rounding; **Application rate:** Values are total withdrawals divided by thousands of acres irrigated]

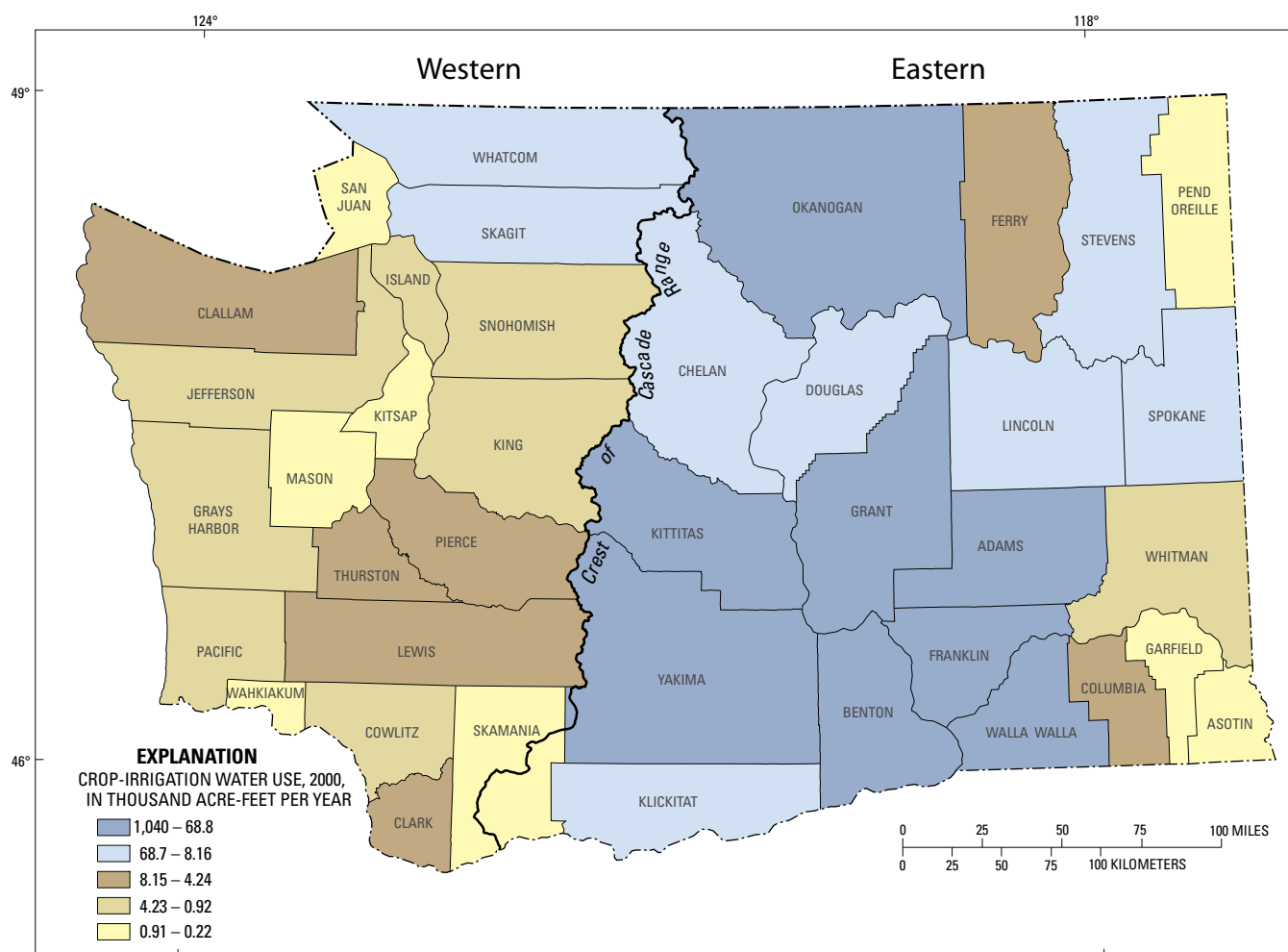
County	Withdrawals (million gallons per day)			Withdrawals (thousand acre-feet per year)			Acres irrigated (thousand acres)	Application rate (acre-feet per acre per year)
	Ground water	Surface water	Total	Ground water	Surface water	Total		
Adams	107	79.7	187	120	89.2	209	135	1.6
Asotin	.03	.17	.20	.03	.19	.22	.30	.7
Benton	18.2	219	237	20.3	245	265	140	1.9
Chelan	3.11	47.2	50.3	3.48	52.8	56.3	27.9	2.0
Clallam	.17	5.63	5.80	.19	6.31	6.50	3.44	1.9
Clark	3.52	1.21	4.73	3.94	1.35	5.29	3.50	1.5
Columbia	.28	4.03	4.31	.31	4.51	4.82	3.26	1.5
Cowlitz	.00	3.21	3.21	.00	3.60	3.60	2.95	1.2
Douglas	3.06	21.4	24.5	3.43	24.00	27.4	19.3	1.4
Ferry	.80	3.69	4.49	.90	4.13	5.03	4.26	1.2
Franklin	120	317	437	135	355	490	201	2.5
Garfield	.03	.48	.51	.03	.54	.57	.63	.9
Grant	258	672	930	289	753	1,040	406	2.6
Grays Harbor	1.96	1.11	3.07	2.20	1.24	3.44	2.80	1.3
Island	.78	.12	.90	.87	.13	1.00	1.26	.8
Jefferson	.86	.20	1.06	.96	.22	1.18	.78	1.5
King	2.15	.63	2.78	2.41	.71	3.12	3.00	1.1
Kitsap	.17	.20	.37	.19	.22	.41	.34	1.2
Kittitas	.00	199	199	.00	223	223	69.2	3.2
Klickitat	16.5	10.0	26.5	18.5	11.2	29.7	18.40	1.6
Lewis	3.06	2.95	6.01	3.43	3.30	6.73	5.26	1.3
Lincoln	27.8	8.09	35.90	31.2	9.06	40.3	43.7	.9
Mason	.27	.12	.39	.30	.13	.43	.35	1.3
Okanogan	19.8	52.8	72.6	22.2	59.1	81.3	43.50	1.9
Pacific	1.14	2.12	3.26	1.28	2.37	3.65	3.07	1.2
Pend Oreille	.28	.46	.74	.31	.51	.82	1.44	.6
Pierce	4.40	1.10	5.50	4.93	1.23	6.16	4.70	1.3
San Juan	.03	.19	.22	.03	.21	.24	.82	.3
Skagit	6.65	1.74	8.39	7.45	1.95	9.40	8.95	1.1
Skamania	.00	.25	.25	.00	.28	.28	.25	1.1
Snohomish	1.84	1.22	3.06	2.06	1.37	3.43	3.81	.9
Spokane	8.06	1.10	9.16	9.03	1.23	10.3	9.77	1.1
Stevens	1.53	8.00	9.53	1.71	8.96	10.7	9.12	1.2
Thurston	4.62	1.54	6.16	5.18	1.72	6.90	5.07	1.4
Wahkiakum	.07	.12	.19	.08	.14	.22	.16	1.4
Walla Walla	42.2	81.9	124	47.3	91.8	139	88.6	1.6
Whatcom	18.2	5.07	23.3	20.4	5.68	26.1	23.5	1.1
Whitman	.63	2.17	2.80	.71	2.43	3.14	4.99	.6
Yakima	62.1	507	569	69.5	568	638	253	2.5
State	739	2,265	3,005	829	2,535	3,365	1,555	2.2

The estimates of self-supplied domestic water use are based on the county-level domestic per-capita rates for public-supplied water use and the self-supplied population of each county. The self-supplied population of each county was estimated by subtracting the population served by Class A Systems (Washington State Department of Health, 2001) from the total population of the county (U.S. Department of Commerce, 2001). For the purposes of this report, the public-supplied domestic-use category includes only those people who are served by a **Class A public water-supply system**. The self-supplied domestic-use category includes those who are self-supplied and those who are served by a **Class B public water-supply system**. Statewide, some 4.90 million people are served by a Class A system. The remaining 0.99 million people are either self-supplied (0.89 million people) or are served by a Class B system.

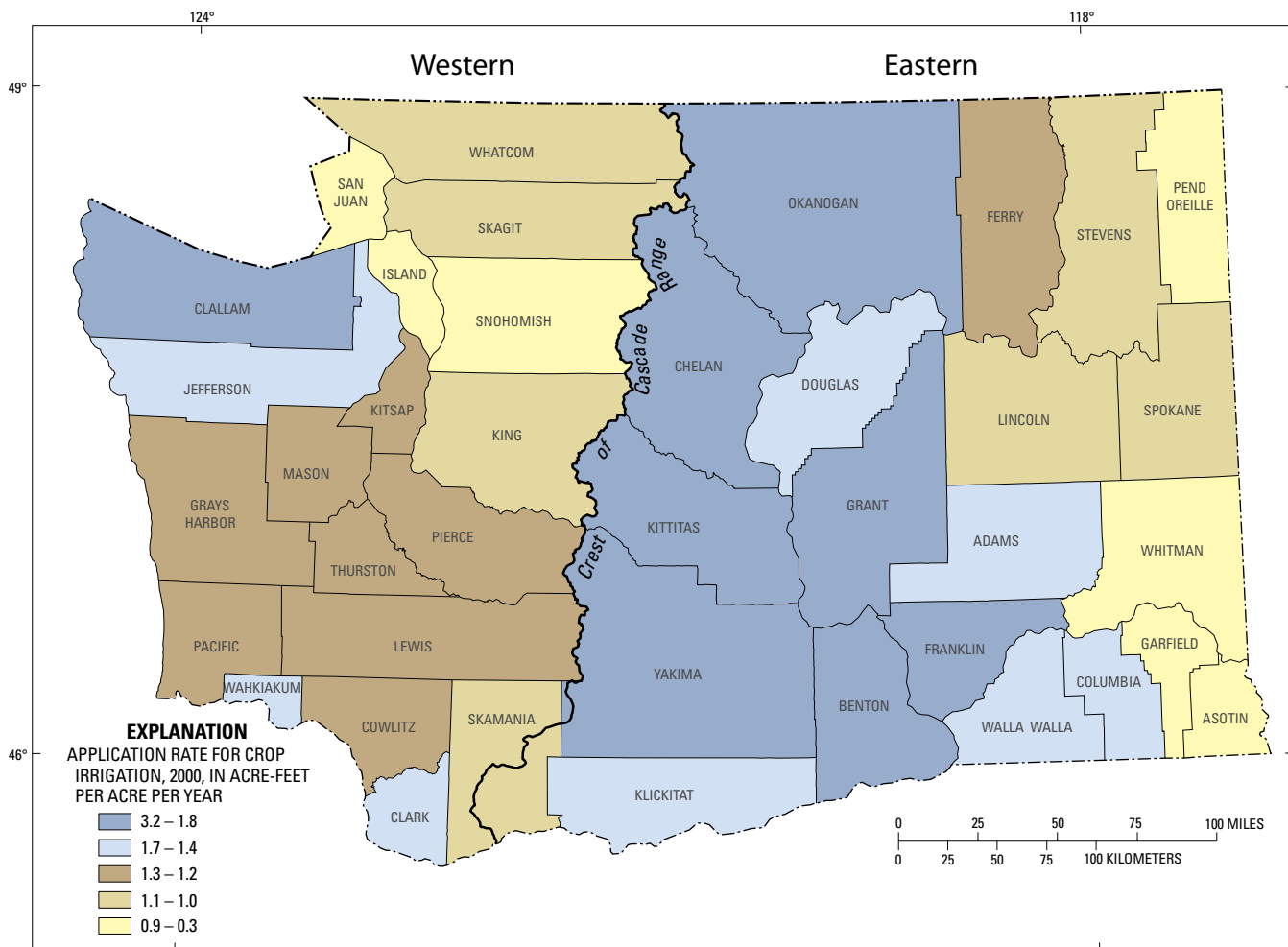
## CROP-IRRIGATION WATER USE

**Crop-irrigation water use** in Washington in the year 2000 was estimated to be 3,365 thousand acre-ft (acre-feet) of water (3,005 Mgal/d; table 2). Ground-water use accounted for 25 percent (829 thousand acre-ft), and surface-water use accounted for 75 percent (2,535 thousand acre-ft) of the total use. The eight eastern Washington counties of Grant, Yakima, Franklin, Benton, Kittitas, Adams, Walla Walla, and Okanogan accounted for 92 percent (3,085 thousand acre-ft) of total crop-irrigation water use in the State (fig. 3).

The crop-irrigation application rate for the State was estimated to be 2.2 (acre-ft/acre)/yr [(acre-ft per acre per year, or feet per year (ft/yr)], and the county application rates ranged from 0.3 to 3.2 ft/yr (fig. 4). For western Washington the



**Figure 3.** Estimated crop-irrigation water use in Washington, 2000.



**Figure 4.** Estimated application rates for crop irrigation in Washington, 2000.

crop-irrigation application rate was estimated to be 1.2 ft/yr, and the county rates ranged from 0.3 to 1.9 ft/yr. For eastern Washington the regional application rate was estimated to be 2.2 ft/yr, and the county application rates ranged from 0.6 to 3.2 ft/yr.

Acreage and application data for crop-irrigation water use were not available for the 2000 growing season. Therefore, acreage and application data for 1998 (U.S. Department of

Agriculture, 1998) were used to approximate conditions for the 2000 growing season. The State-level acreage data were disaggregated to the county level on the basis of data from the 1997 agricultural census (U.S. Department of Agriculture, 1997). The State-level application rate was disaggregated to the county level on the basis of data from the 1995 Washington water use data (U.S. Geological Survey, 1997c).

### Units of Measurement

Water use is usually expressed as a rate; that is, a volume of water over a period of time. Common rates for water use are thousand gallons or 100 cubic feet, ccf (such as for a meter reading); gallons per minute, gpm (as in pumpage); gallons per day, gpd (as in use per person or per household); million gallons per day, Mgal/d (as in use per facility or per geographically or politically bounded area); billion gallons per day, bgd (as in a national total); or acre-feet, acre-ft (most commonly used for irrigation water use and in the western United States).

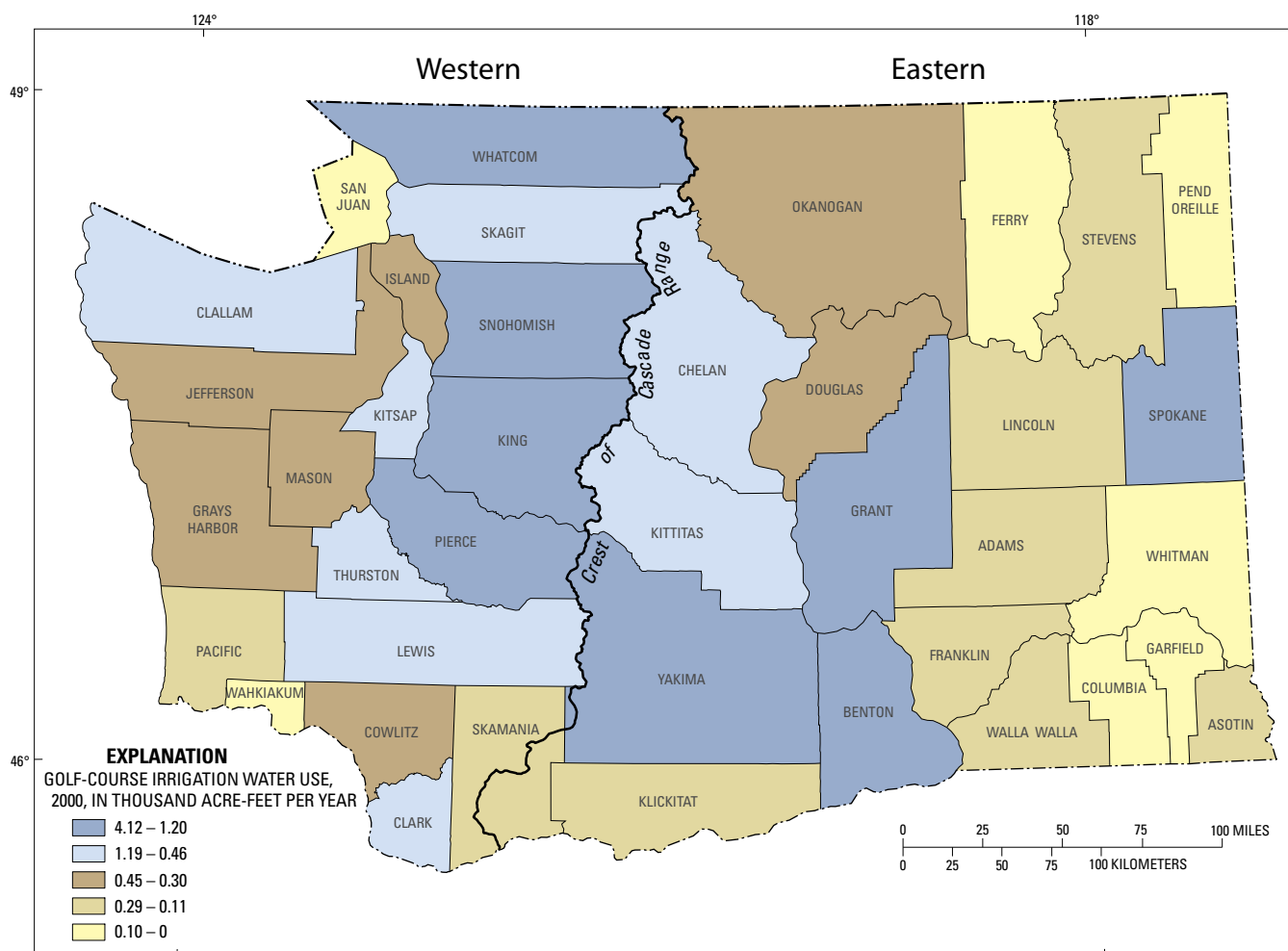
## GOLF-COURSE IRRIGATION WATER USE

**Golf-course irrigation water use** in Washington in the year 2000 was estimated to be 26.5 thousand acre-ft (23.6 Mgal/d; table 3). Ground-water use accounted for 23 percent (6.20 thousand acre-ft) and surface-water use accounted for 77 percent (20.3 thousand acre-ft) of the total use. The largest withdrawals for golf-course irrigation were in King, Pierce, Grant, Spokane, Whatcom, Yakima, Snohomish, and Benton Counties (fig. 5). These eight counties accounted for 61 percent (16.1 thousand acre-ft) of the total water used in Washington for golf-course irrigation. The golf-course irrigation application rate for the State was estimated to be 1.4 ft/yr, and the county application rates ranged from 0.3 to 3.2 ft/yr (fig. 6).

Golf-course irrigation in western Washington was estimated to be 16.4 thousand acre-ft, or about 62 percent of the total State use. The largest withdrawals were in King, Pierce,

Whatcom, and Snohomish Counties. Withdrawals in these four counties amounted to 9.49 thousand acre-ft, or about 36 percent of the State total and 58 percent of the regional use. For western Washington, the golf-course irrigation application rate was estimated to be 1.2 ft/yr, and the county rates ranged from 0.30 to 2.0 ft/yr.

Golf-course irrigation in eastern Washington was estimated to be 10.1 thousand acre-ft, or about 38 percent of the total State use. The largest withdrawals were in Grant, Spokane, Yakima, and Benton Counties. Withdrawals in these four counties amounted to 6.60 thousand acre-ft, or about 25 percent of the State total and 82 percent of the regional use. For eastern Washington, the golf-course irrigation application rate was estimated to be 1.8 ft/yr, and the county rates ranged from 0.6 to 3.2 ft/yr.



**Figure 5.** Estimated golf-course irrigation water use in Washington, 2000.

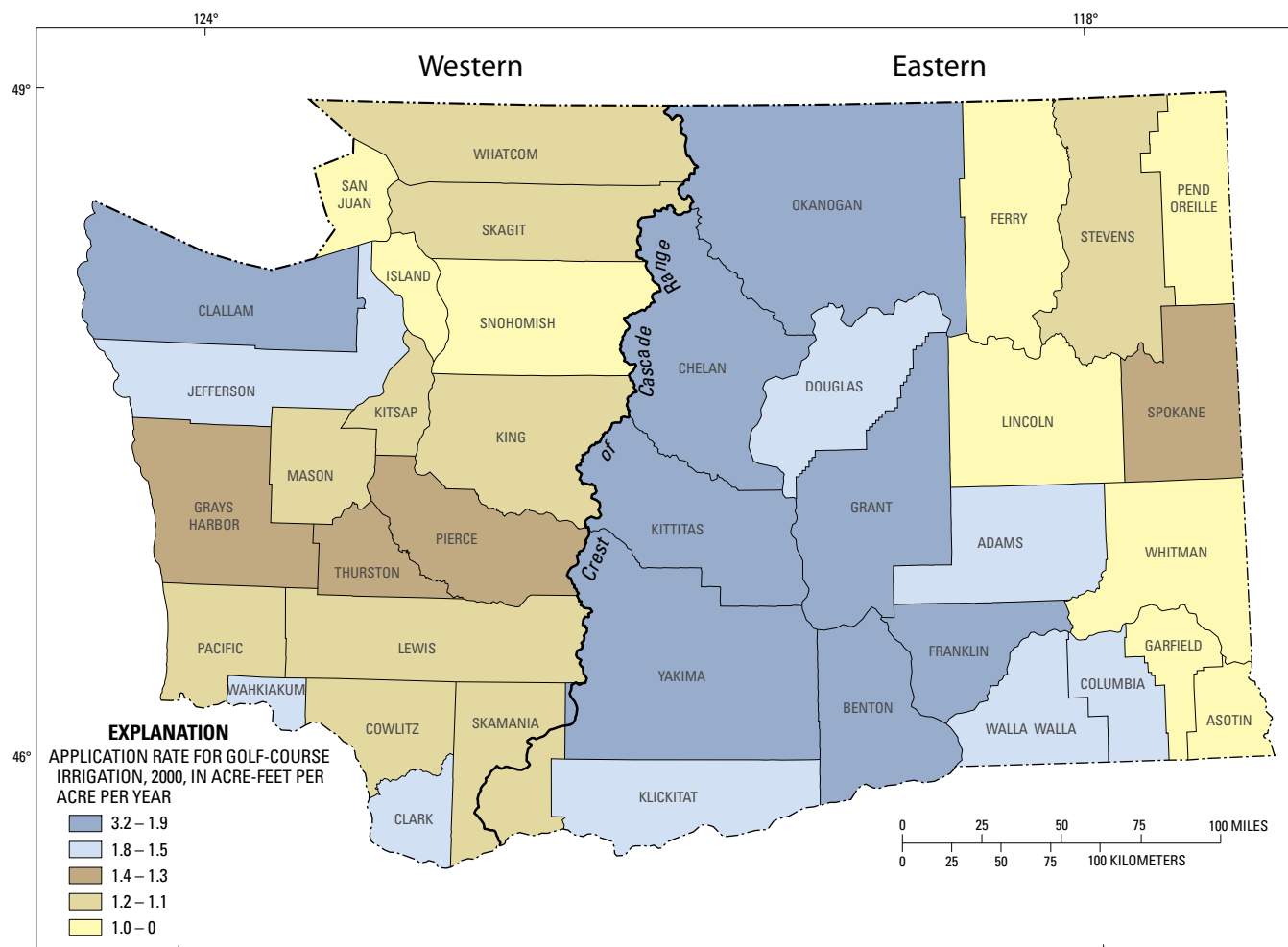


**Table 3.** Estimated golf-course irrigation water use in Washington by county and source, 2000

[Values may not add up to totals due to independent rounding]

County	Water use (million gallons per day)			Water use (thousand acre-feet per year)			Acres irrigated (thousand acres)	Application rate (acre-feet per acre per year)
	Ground water	Surface water	Total water	Ground water	Surface water	Total water		
Adams	0.03	0.08	0.11	0.03	0.09	0.12	0.08	1.5
Asotin	.01	.10	.11	.01	.11	.12	.16	.8
Benton	.04	1.13	1.17	.04	1.27	1.31	.69	1.9
Chelan	.02	.71	.73	.02	.80	.82	.41	2.0
Clallam	.01	.41	.42	.01	.46	.47	.24	2.0
Clark	.30	.61	.91	.34	.68	1.02	.65	1.6
Columbia	.00	.05	.05	.00	.06	.06	.04	1.5
Cowlitz	.00	.39	.39	.00	.44	.44	.36	1.2
Douglas	.02	.29	.31	.02	.33	.35	.24	1.5
Ferry	.00	.04	.04	.00	.04	.04	.04	1.0
Franklin	.02	.15	.17	.02	.17	.19	.08	2.4
Garfield	.00	.04	.04	.00	.04	.04	.04	1.0
Grant	.26	1.78	2.04	.29	1.99	2.28	.89	2.6
Grays Harbor	.09	.22	.31	.10	.25	.35	.28	1.3
Island	.14	.21	.35	.16	.23	.39	.49	.8
Jefferson	.11	.21	.32	.12	.24	.36	.20	1.8
King	1.26	2.42	3.68	1.41	2.71	4.12	3.73	1.1
Kitsap	.21	.77	.98	.23	.86	1.09	.89	1.2
Kittitas	.00	.46	.46	.00	.52	.52	.16	3.2
Klickitat	.04	.09	.13	.04	.10	.14	.08	1.8
Lewis	.10	.32	.42	.11	.36	.47	.36	1.2
Lincoln	.06	.12	.18	.07	.13	.20	.20	1.0
Mason	.12	.23	.35	.13	.26	.39	.32	1.2
Okanogan	.04	.29	.33	.05	.33	.38	.20	1.9
Pacific	.02	.11	.13	.02	.12	.14	.12	1.2
Pend Oreille	.00	.00	.00	.00	.00	.00	.00	0
Pierce	.79	1.46	2.25	.89	1.63	2.52	1.82	1.4
San Juan	.00	.03	.03	.00	.03	.03	.12	.3
Skagit	.16	.29	.45	.18	.33	.51	.45	1.1
Skamania	.00	.21	.21	.00	.23	.23	.20	1.2
Snohomish	.35	.91	1.26	.39	1.02	1.41	1.54	.9
Spokane	.49	.92	1.41	.55	1.03	1.58	1.26	1.3
Stevens	.01	.12	.13	.01	.13	.14	.12	1.2
Thurston	.29	.56	.85	.33	.63	.96	.69	1.4
Wahkiakum	.01	.04	.05	.01	.05	.06	.04	1.5
Walla Walla	.04	.19	.23	.04	.21	.25	.16	1.6
Whatcom	.45	.84	1.29	.50	.94	1.44	1.22	1.2
Whitman	.01	.07	.08	.01	.08	.09	.15	.6
Yakima	.06	1.21	1.27	.07	1.36	1.43	.57	2.5
State	5.56	18.1	23.6	6.2	20.3	26.5	19.3	1.4





**Figure 6.** Estimated application rates for golf-course irrigation in Washington, 2000.

Information on the location and size (number of holes) of golf courses in Washington was obtained on the World Wide Web at the URLs [www.worldgolf.com](http://www.worldgolf.com) and [www.golfcourse.com](http://www.golfcourse.com). The number of holes per course was aggregated to the county level and the irrigated acreage was estimated on the basis of 4.5 acres per hole (Richard L. Marella, U.S. Geological Survey, oral commun., 2001). County-level water use for golf-course irrigation was estimated by multiplying the estimated acres per county by the estimated application rates from the crop-irrigation category.

## INDUSTRIAL WATER USE

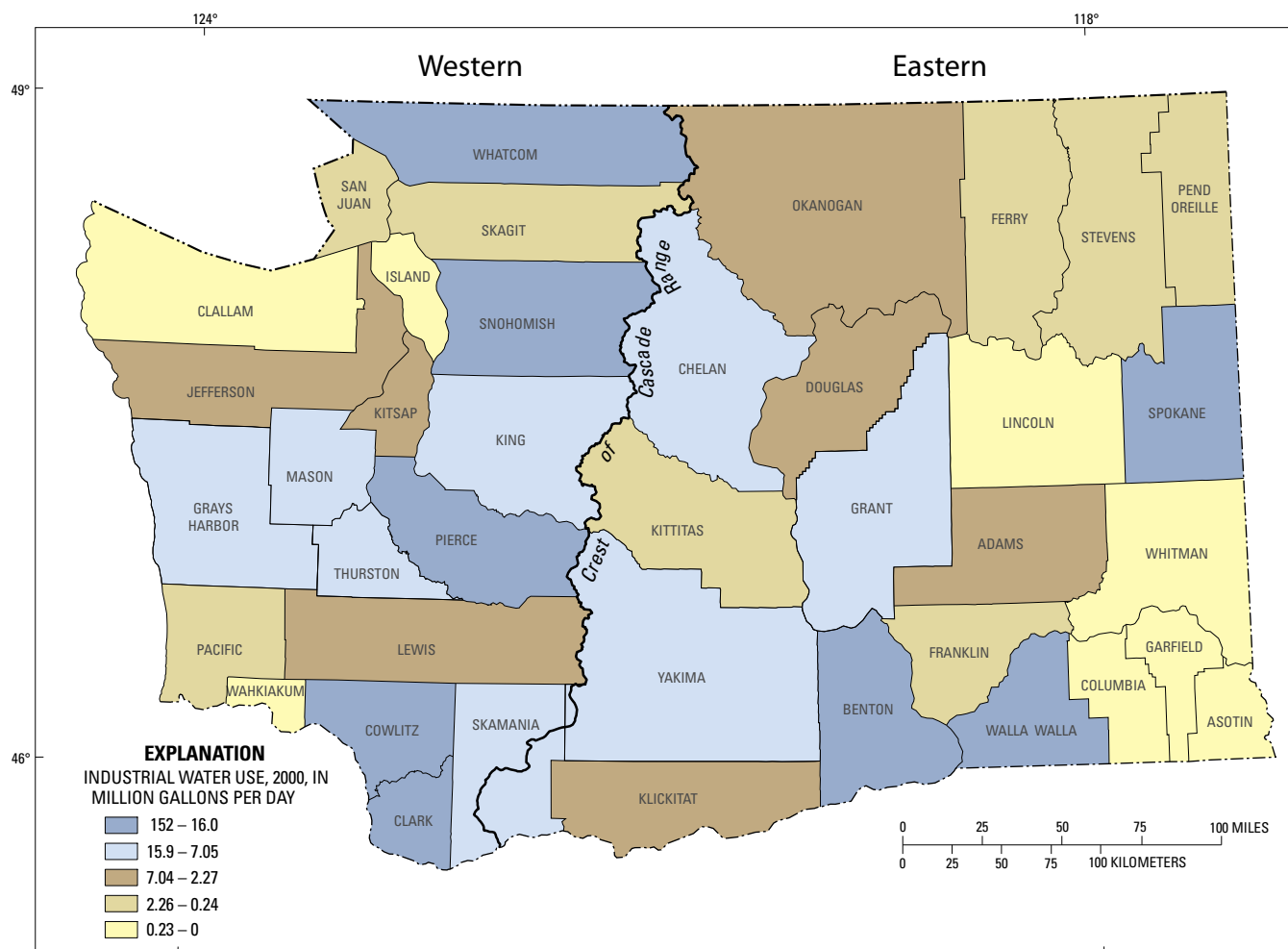
**Industrial water use** in Washington in the year 2000 was estimated to be 681 Mgal/d (table 4). Public water-supply systems delivered only 9 percent (63.5 Mgal/d) of the total industrial use. Self-supplied fresh ground water accounted

for 20 percent (138 Mgal/d), self-supplied fresh surface water accounted for 64 percent (439 Mgal/d), and self-supplied saline surface water accounted for the remaining 7 percent (39.9 Mgal/d) of the total industrial use. The largest industrial withdrawals were in Cowlitz, Clark, Spokane, Snohomish, Pierce, Benton, Whatcom, and Walla Walla Counties (fig. 7). These eight counties accounted for 83 percent (563 Mgal/d) of the total industrial water use in Washington.

Industrial water use in western Washington was estimated to be 488 Mgal/d, or 77 percent of the total State use. Public water-supply systems delivered 9 percent (45.9 Mgal/d) of the regional use. Self-supplied fresh ground water accounted for 20 percent (96.8 Mgal/d), self-supplied fresh surface water accounted for 63 percent (305 Mgal/d), and self-supplied saline surface water accounted for 8 percent (39.9 Mgal/d). The largest industrial withdrawals in western Washington were in Cowlitz, Clark, Snohomish, and Pierce Counties. These four counties accounted for 70 percent (343 Mgal/d) of the regional industrial use and 50 percent of the State total industrial water use.

**Table 4.** Estimated industrial water use in Washington, by county and source, 2000[Values may not add up to totals due to independent rounding; **Abbreviations:** Mgal/d, million gallons per day]

County	Self-supplied withdrawals (Mgal/d)					Public supplied deliveries (Mgal/d)	Total water use (Mgal/d)
	Ground water	Surface water		Total water			
	Fresh	Fresh	Saline	Total Fresh	Fresh + saline		
Adams	2.23	0.00	0.00	2.23	2.23	3.29	5.52
Asotin	.00	.00	.00	.00	.00	.00	.00
Benton	9.76	65.3	.00	75.1	75.1	.00	75.1
Chelan	.00	14.5	.00	14.5	14.5	.12	14.6
Clallam	.02	.01	.00	.03	.03	.15	.18
Clark	68.8	61.0	.00	130	130	1.76	132
Columbia	.08	.00	.00	.08	.08	.00	.08
Cowlitz	.00	152	.00	152	152	.00	152
Douglas	3.34	.00	.00	3.34	3.34	.00	3.34
Ferry	.29	.00	.00	.29	.29	.00	.29
Franklin	1.75	.00	.00	1.75	1.75	.00	1.75
Garfield	.01	.00	.00	.01	.01	.00	.01
Grant	3.21	.00	.00	3.21	3.21	4.42	7.63
Grays Harbor	1.22	.01	7.52	1.23	8.75	.18	8.93
Island	.01	.00	.00	.01	.01	.00	.01
Jefferson	.00	.00	6.94	.00	6.94	.00	6.94
King	3.12	2.66	.00	5.78	5.78	4.44	10.2
Kitsap	.02	.07	.00	.09	.09	2.75	2.84
Kittitas	1.41	.00	.00	1.41	1.41	.01	1.42
Klickitat	.00	2.78	.00	2.78	2.78	.00	2.78
Lewis	3.07	.00	.00	3.07	3.07	.31	3.38
Lincoln	.01	.00	.00	.01	.01	.01	0.02
Mason	.41	9.75	.00	10.2	10.2	.00	10.2
Okanogan	3.78	.00	.00	3.78	3.78	.00	3.78
Pacific	.20	.28	.00	.48	.48	.05	.53
Pend Oreille	.00	.92	.00	.92	.92	.00	.92
Pierce	12.9	4.74	25.4	17.6	43.0	.80	43.8
San Juan	.39	.00	.00	.39	.39	.01	.40
Skagit	.01	.02	.00	.03	.03	.25	.28
Skamania	.00	11.3	.00	11.3	11.3	.01	11.3
Snohomish	2.33	55.9	.00	58.2	58.2	.68	58.9
Spokane	8.20	35.0	.00	43.2	43.2	1.44	44.6
Stevens	.00	.12	.00	.12	.12	.60	.72
Thurston	4.18	.00	.00	4.18	4.18	2.97	7.15
Wahkiakum	.07	.00	.00	.07	.07	.00	.07
Walla Walla	.82	15.5	.00	16.3	16.3	1.08	17.4
Whatcom	.00	7.33	.00	7.33	7.33	31.5	38.8
Whitman	.00	.00	.00	.00	.00	.03	.03
Yakima	6.51	.00	.00	6.51	6.51	6.68	13.2
State	138	439	39.9	577	617	63.5	681



**Figure 7.** Estimated industrial water use in Washington, 2000.

Industrial water use in eastern Washington was estimated to be 193 Mgal/d, or 28 percent of the total State use. Public water-supply systems delivered 9 percent (17.7 Mgal/d) of the regional use. Self-supplied fresh ground water accounted for 21 percent (41.4 Mgal/d), and self-supplied fresh surface water was estimated to be 70 percent (134 Mgal/d). The largest industrial withdrawals in eastern Washington were in Benton, Spokane, Walla Walla, and Chelan Counties. These four counties accounted for 70 percent (152 Mgal/d) of the regional industrial use and 22 percent of the State total industrial water use.

Industrial water-use data for Washington have not been collected in a comprehensive manner since 1985. Since then, the USGS in Washington has generated estimates of industrial water use using changes in industrial hours as reported by the U.S. Department of Commerce. The estimates of self-supplied industrial water use in 2000 are based on similar estimates from the USGS 1995 Water Use Compilation that were modified on the basis of changes in the number of industrial hours worked between 1992 and 1997 (U.S. Department of Commerce, 1998). The estimate of public-supplied industrial water use is based on data from the USGS inventory of selected public-water-supply systems discussed in the section “Domestic Water Use.”

## SUMMARY

In the year 2000, domestic water use in Washington was estimated to be 674 Mgal/d (million gallons per day), with an estimated per-capita rate of 114 gal/d (gallons per day). Domestic per-capita rates at the county level ranged from 87 to 238 gal/d. For western Washington, domestic water use was estimated to be 445 Mgal/d, the regional per-capita rate was estimated to be 97 gal/d, and county per-capita rates ranged from 87 to 158 gal/d. For eastern Washington, domestic water use was estimated to be 229 Mgal/d, the regional per-capita rate was estimated to be 175 gal/d, and the county per-capita rates ranged from 102 to 238 gal/d.

Crop-irrigation water use in Washington was estimated to be 3,365 thousand acre-ft (3,005 Mgal/d), with an estimated application rate of 2.2 acre-feet per acre per year, or feet per year (ft/yr). For western Washington, the application rate was estimated to be 1.2 ft/yr, and the county rates ranged from 0.3 to 1.9 ft/yr. For eastern Washington, the estimated application rate was 2.2 ft/yr, and the county application rates ranged from 0.6 to 3.2 ft/yr.

Golf-course irrigation water use in Washington was estimated to be 26.5 thousand acre-ft (23.6 Mgal/d), with an estimated application rate of 1.4 ft/yr. For western Washington, the application rate was estimated to be 1.2 ft/yr, and the county rates ranged from 0.3 to 2.0 ft/yr. For eastern Washington, the estimated application rate was 1.8 ft/yr, and the county application rates ranged from 0.6 to 3.2 ft/yr.

Industrial water use in Washington was estimated to be 681 Mgal/d. Industrial water use in western Washington was estimated to be 488 Mgal/d, or 77 percent of the State industrial use. Industrial water use in eastern Washington was estimated to be 193 Mgal/d, or 28 percent of the State total.

Water use in Washington has evolved in the past century from meager domestic and stock water needs to the current complex requirements of domestic water users, large irrigation projects, industrial plants, fish habitat, and recreation. Historically, domestic, irrigation, and industrial water use account for about 92 percent estimated offstream water use in Washington. Although advances have been made in the ability to control, divert, and develop water supplies, insufficient effort has gone into keeping accurate and complete records of the actual amounts of water being used. With increasing competition for water, water-use information is of considerable value in determining water availability and in making sound resource management decisions. Although the State of Washington has begun to collect water-use information in selected basins, there is currently no statewide program requiring the reporting of water-use information to the State.

## SELECTED REFERENCES

- Dion, N.P., 1985, Washington ground-water resources, *in* U.S. Geological Survey, 1985, National Water Summary 1984: Hydrologic events, selected water-quality trends, and ground-water resources: U.S. Geological Survey Water-Supply Paper 2275, p. 433-438.
- U.S. Department of Agriculture, 1997, 1997 census of agriculture: National Agricultural Statistics Service, accessed May 21, 2001, at <http://www.nass.usda.gov/census/census97/volume1/wa-47>.
- U.S. Department of Agriculture, 1998, 1998 farm and ranch irrigation survey: National Agricultural Statistics Service, accessed May 21, 2001, at <http://www.nass.usda.gov/census/census97/frisaq>.
- U.S. Department of Commerce, 1998, 1997 census of manufactures, MC97-A-48, Geographic Area Series: Washington: accessed July 30, 2001, at <http://www.census.gov/epcd/www/97EC31.htm>.
- U.S. Department of Commerce, 2001, population census 2000: Bureau of the Census, accessed May 16, 2001, at <http://factfinder.census.gov/servlet/BasicFactsTable>.
- Washington State Department of Health, 2001, Public Water Systems data base: Washington State Department of Health data available on the Web, accessed January 10, 2001, at <http://ww3/doh.wa.gov/sadie>.
- Williams, J.R., 1986, Washington surface-water resources, *in* Moody, D.E., Chase, E.B., and Aronson, D.A., 1986, National Water Summary 1985: Hydrologic events and surface-water resources: U.S. Geological Survey Water-Supply Paper 2300, p. 473-478.
- U.S. Geological Survey Water-Use Reports  
[in order of date published]**
- MacKichan, K.A., 1951, Estimated water use in the United States—1950: U.S. Geological Survey Circular 115, 13 p.
- MacKichan, K.A., 1957, Estimated water use in the United States, 1955: U.S. Geological Survey Circular 398, 18 p.

- MacKichan, K.A., and Kammerer, J.C., 1961, Estimated water use in the United States, 1960: U.S. Geological Survey Circular 456, 44 p.
- Laird, L.B., and Walters, K.L., 1967, Municipal, industrial, and irrigation water use in Washington, 1965: U.S. Geological Survey Open-File Report, 13 p.
- Murray, C.R., 1968, Estimated water use in the United States, 1965: U.S. Geological Survey Circular 556, 53 p.
- Parker, G.G., 1971, Municipal, industrial, and irrigation water use in Washington, 1970: U.S. Geological Survey Open-File Report, 21 p.
- Murray, C.R., and Reeves, E.B., 1972, Estimated water use in the United States in 1970: U.S. Geological Survey Circular 676, 37 p.
- Murray, C.R., and Reeves, E.B., 1977a, Estimated water use in the United States in 1975: U.S. Geological Survey Circular 765, 39 p.
- Dion, N.P., and Lum, W.E., II., 1977b, Municipal, industrial, and irrigation water use in Washington, 1975: U.S. Geological Survey Open-File Report 77-308, 34 p.
- Solley, W.B., Chase, E.B., and Mann, W.B., IV., 1983, Estimated use of water in the United States in 1980: U.S. Geological Survey Circular 1001, 56 p.
- Solley, W.B., Merk, C.F., and Pierce, R.R., 1988, Estimated use of water in the United States in 1985: U.S. Geological Survey Circular 1004, 82 p.
- Solley, W.B., Pierce, R.R., and Perlman, H.A., 1993, Estimated use of water in the United States in 1990: U.S. Geological Survey Circular 1081, 76 p.
- U.S. Geological Survey, 1997a, Estimated water use in Washington, 1985: U.S. Geological Survey data available on the Web, accessed January 10, 2001, at <http://wa.water.usgs.gov/data/wuse/main.cnty.85.txt>.
- U.S. Geological Survey, 1997b, Estimated water use in Washington, 1990: U.S. Geological Survey data available on the Web, accessed January 10, 2001, at <http://wa.water.usgs.gov/data/wuse/main.cnty.90.txt>.
- U.S. Geological Survey, 1997c, Estimated water use in Washington, 1995: U.S. Geological Survey data available on the Web, accessed January 10, 2001, at <http://wa.water.usgs.gov/data/wuse/main.cnty.95.txt>.
- Solley, W.B., Pierce, R.R., and Perlman, H.A., 1998, Estimated water use in the United States in 1995: U.S. Geological Survey Circular 1200, 71 p.
- U.S. Geological Survey, 2003, Estimated water use in Washington, 2000: U.S. Geological Survey data available on the Web, accessed January 10, 2001, at <http://wa.water.usgs.gov/data/wuse/main.cnty.00.txt>.

## APPENDIX A. CONCEPTS AND TERMS

The concepts and terms in this appendix are modified from the U.S. Geological Survey's National Handbook of Recommended Methods for Water Data Acquisition, available on the Web at <http://water.usgs.gov/pubs/chapter11/chapter11M.html>, and from its guidelines for preparation of State water-use estimates.

**Class A system**—A **public water-supply system** that has a full-time service population of at least 25 people or that has at least 15 connections.

**Class B system**—A **public water-supply system** that has a full-time service population of less than 25 people or that has fewer than 15 connections.

**Crop-irrigation water use** is water that is applied by an irrigation system to sustain plant growth in all agricultural and horticultural vegetation. It also includes water that is applied for pre-irrigation, frost protection, chemical application, weed control, field preparation, crop cooling, harvesting, dust suppression, and for the leaching of salts from the root zone.

**Domestic water use** includes water used for household purposes such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, car washing, and watering lawns and gardens. The largest components of domestic use can be inside household uses (bathing, flushing toilets, and so forth) or outside household uses (lawn and garden watering, car washing, and so forth), depending on the climate. Typically, the largest components of inside household use are toilet flushing (39 percent) and bathing (30 percent). Outside household uses range from near zero in humid areas to 60 percent of total domestic use in arid areas. Domestic water may come from a **public water-supply system** or be **self supplied**.

**Golf-course irrigation water use** is water applied to public and private golf courses by an irrigation system to maintain the greens, tees, fairways, and other grass areas of the course.

**Industrial water use** includes total fresh and saline withdrawals from ground and surface sources that are used for fabrication, processing, product washing, cooling, plant cleaning, and other sanitary purposes by businesses engaged in the manufacturing or processing of products such as steel, chemical and allied products, paper and allied products, smelting, and petroleum refining. The category also includes water used to manufacture and package products, log trees, produce pulp and paper, publish written materials, refine petroleum, tan and finish leather, cut and process stone, smelt and refine metals including steel, among other things. The water may be obtained from a public supply or may be self-supplied. *See also* **public water-supply system** and **self-supplied water**. The five major industrial groups that use the most water per facility are:

- Food and kindred products—the manufacture or processing of foods and beverages for human consumption and related products such as ice, vegetable and animal fats and oils, and prepared feeds for animals and fowls
- Paper and allied products—the manufacture of pulps from wood and fibers; the manufacture of paper and paper-board
- Chemicals and allied products—the production of chemicals and chemical products such as drugs, cosmetics, and soaps
- Petroleum refining and related industries—petroleum refining and the manufacture of paving materials, roofing materials, and lubricating oils and greases
- Primary metals industries—smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; alloying metals; manufacturing nails, spikes, and insulated wire and cable

**Instream water use**—Use of water while it remains in the stream (surface water) or aquifer (ground water). Instream uses include hydroelectric power generation, recreation, transportation, waste assimilation, aesthetics, cultural resource preservation, fish and wildlife preservation, biodiversity, wetlands preservation, freshwater dilution of saline estuaries, and maintenance of the riparian zone.

**Municipal water system**—A water-supply system owned by a governmental organization (such as a town or city), serving residential and non-residential users.

**Non-crop irrigation water use** is water used to irrigate parks, nurseries, turf farms, cemeteries, and other landscaped areas exclusive of golf courses. Non-crop irrigation is not included in this report.

**Non-municipal water system**—A water-supply system serving single-family homes with yards and gardens.

**Offstream water use**—Use of water that has been removed from a ground- or surface-water source. Offstream water use includes domestic and public-water supply, industry, irrigation, livestock, cooling for thermoelectric power generation, mining, and domestic purposes. Sometimes it is called off-channel or withdrawal use.

**Other**—A non-municipal water-supply system serving mobile home parks, apartment buildings, and resorts.

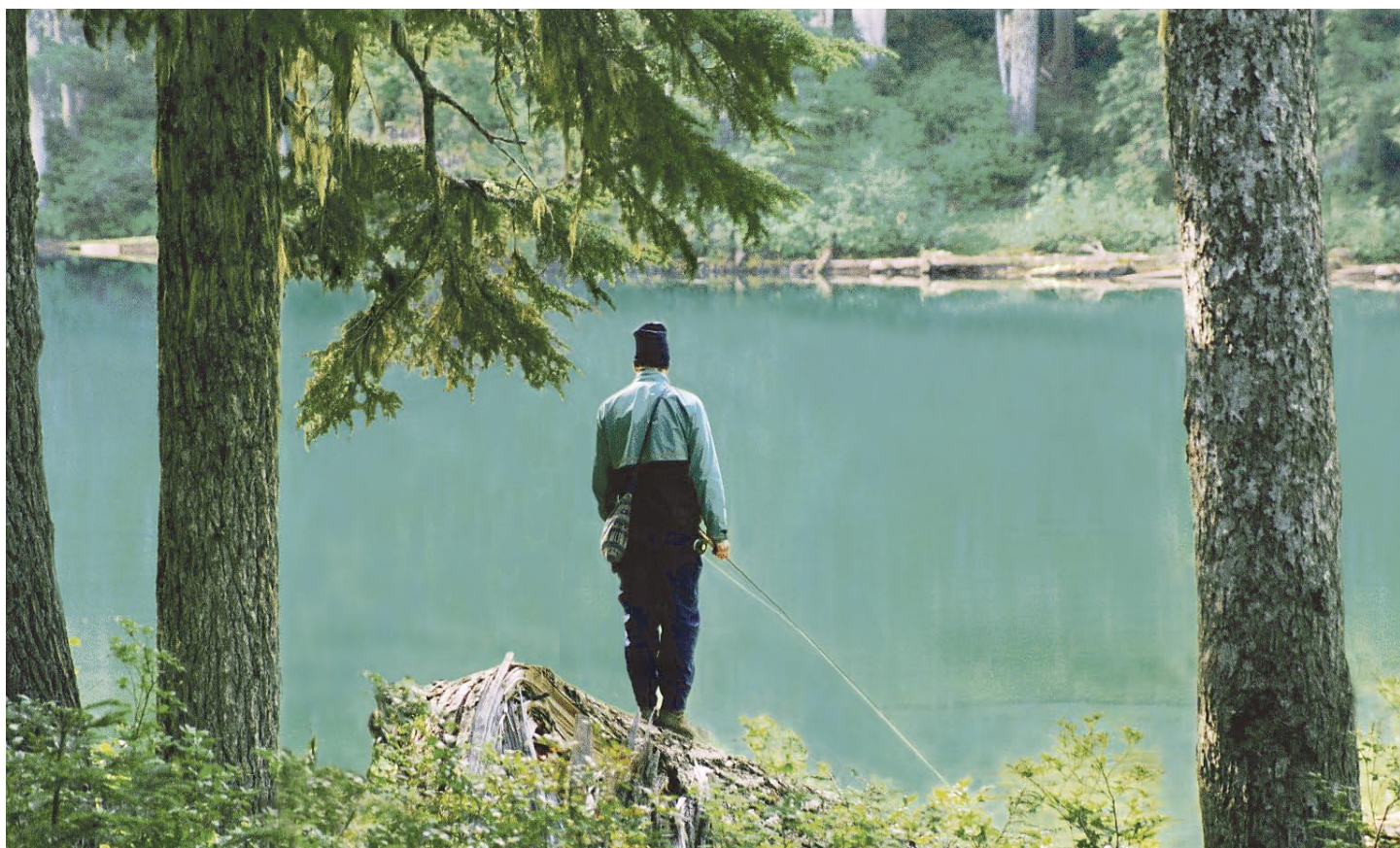
**Public water-supply system**—A public or privately owned facility that supplies water for use by cities, towns, water districts, mobile-home parks, Indian reservations, military bases, and other similar institutions. Water delivered by public systems may be ground water, surface water, or a mixture of both. The delivered water is used for a variety of uses, such as domestic, commercial, thermoelectric power, industrial, and public water use. In addition, some public-supplied water is used for water and wastewater treatment, public services such as pools, parks, and city buildings, or is lost through system leaks and maintenance.

**Self-supplied water**—Water withdrawn from a surface-water or a ground-water source by a user and not obtained from a public supply.

**Water use**, in the broadest sense, pertains to the interaction of human activity with and its influence on the hydrologic cycle and includes elements such as self-supplied withdrawal, public-supply delivery, consumptive use, wastewater release, reclaimed wastewater, return flow, and instream use. In a restrictive sense, water use refers to water that is actually used for a specific purpose, such as for domestic use, irrigation, or industrial processing. Water use is divided into two types, offstream and instream use.

**Withdrawal**—The quantity of water removed from a ground-water source or diverted from a surface-water source to the point of use.





## Water

Hoodsport in the Olympic National Park, Washington. (Photograph taken by Chad Flynn, Volunteer, U.S. Geological Survey, Sept. 18, 2002.)

### **U.S. Department of the Interior**

Gale A. Norton, Secretary

### **U.S. Geological Survey**

Charles G. Groat, Director

U.S. Geological Survey, Reston, Virginia: 2004

For sale by U.S. Geological Survey, Information Services  
Box 25286, Denver Federal Center  
Denver, CO 80225-0286

For more information about the USGS and its products:

Telephone: 1-888-ASK-USGS

World Wide Web: <http://www.usgs.gov/>

Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Although this report is in the public domain, permission must be secured from the individual copyright owners to reproduce any copyrighted materials contained within this report.

#### Suggested citation:

Lane, R.C., 2004, Estimated domestic, irrigation, and industrial water use in Washington, 2000: U.S. Geological Survey Scientific Investigations Report 2004–5015, 16 p.

Manuscript approved for publication, February 4, 2004

Prepared by the Publishing Group, U.S. Geological Survey, Washington Water Science Center, Tacoma, Washington  
USGS Publishing staff: Judith A. Wayenberg, Bob Crist, Bill Gibbs, David Holter

For more information concerning this report, contact the

Washington Water Science Center Director,  
U.S. Geological Survey, 1201 Pacific Avenue – Suite 600  
Tacoma, Washington 98402

<http://wa.water.usgs.gov>

## **TABLES**



Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project		Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Irrigation Entity Name	Stream Name	WRIA No.	County								
BCD	Property Owner	On-farm Conservation	37	Benton	Private Landowner	Yakima River	37	Benton	40	\$125,000	2007	0-5 yrs	medium	Project proposal is 25 acres of irrigated grapes, nursery trees and soil cover. The conversion would be the 5 acres of existing grapes and 10 of planned grapes converted to drip line. The project costs would also include enhance automated irrigation infrastructure and conversion of irrigated acreage (tree nursery and ground cover) into high efficiency sprinklers. Work also would include the installation of an secondary irrigation pond to reduce irrigation friction loss for acres on the upper level grounds.	As a stand alone project it can increase in stream flow to the Yakima River and benefit listed species of fish	Interview with land owner
BCD	Property Owner	On-farm Conservation	31	Benton	Private Landowner	Columbia River	39	Benton	Unknown at this time	\$250,000	2007	0-5 yrs	medium	Project proposal is to convert 90 acres of circle irrigated farm crops into drip irrigation to convert ground crop to grapes. soil cover. The conversion would be the 5 acres of existing grapes and 10 of planned grapes converted to drip line. The project costs would also include enhance automated irrigation infrastructure and conversion of irrigated acreage into high efficiency sprinklers. Work also would include the installation of an secondary irrigation pond to reduce irrigation friction loss for acres on the upper level grounds.	As a stand alone project it can increase in stream flow to the Columbia River and benefit listed species of fish.	
BCD	Property Owner	On-farm Conservation	31	Benton	Private Landowner	Yakima River	37	Benton	3,000-5,000	\$2.8 million	2007	0-5 yrs	High	The project is approximately 2,000 of lowland habitat on the lower Yakima River at West Richland, Washington. The ranch is currently working with the NRCS on conservation wetlands and with WDOE on this aspect. The current irrigation canal draws at the Wanawish dam (north side) and conveys approximately 27, 000 ac/ft of water to supply the ponds and channels. This funding would be a full piping lining of the total water system for the entire ranch.	This Project has great potential for significantly increasing flows as part of their water rights. This could be used to "pay for the Pipe" and then called upon by the purchaser at any time. There has also been a great deal of on-farm conservation planning at this site. The current pump station his metered, so flows are understood. This would make it relatively simple to calculate yearly needs for consumptive use and dedicate the remaining water to in-stream flow. In addition idle lands could also be identified and that water put in stream. Bottom line is that the Barker Ranch is a willing partner and is amenable to maximizing the water benefits of a pressurized piped system.	Interview with KID personnel, Aquavella findings, and Pacific Northwest Project.
BCD	Irrigation District	Lining/Piping	37	Benton	Irrigation District	Yakima River	37	Benton	To be determined	\$40 million	2007	0-5 yrs	High	This project would include the installation of a pump station in the Columbia River and piping the water to a point of diversion so that flows bypassed at the Prosser/Chandler diversion can become increased flows to the Yakima River. Currently the KID is working with WDOE and the BOR to secure the water right from the Columbia River, so it is a viable and realistic project.	No defined amount of water savings have been established and this allocation could contribute to determining the actual water conserved. However, the potential benefits to fish species could be significant, as flow is one the single largest limiting factor to migrating fish species and water temperatures.	
BCD	Irrigation District	Lining/Piping	37	Benton	Irrigation District	Yakima River	37	Benton	To be determined	\$26.5 million	2007	0-5 yrs	High	This project would include the installation of a pump station in the Columbia River and piping the water to a point of diversion so that flows bypassed at the Wanawish Dam diversion can become increased flows to the Yakima River. Currently the CID is included in the KID proposal, but I also separated it as a stand-alone project to meet the objectives of this study and because CID is not a BOR regulated entity. CID is also working with WDOE to secure the water right from the Columbia River, so it is a viable and realistic project.	No defined amount of water savings have been established and this allocation could contribute to determining the actual water conserved. However, the potential benefits to fish species could be significant, as flow is one the single largest limiting factor to migrating fish species and water temperatures.	Interview with CID personnel, Aquavella findings, and Pacific Northwest Project
BCD	Property Owner	Lining/Piping	31	Benton	Park District	Columbia River	39	Benton	100-150	\$765,000	2007	0-5 yrs	High	This project would involved completely upgrading and old pump station, piping and irrigation system to increase watering efficiency. The original pump and system was installed around 1985 to supply park grounds operated by the Washington State Parks Dept.	The park district will eventually be managed by the Benton County Parks and Recreation Department in a lease agreement with the Corps of Engineers. They are open to water conservation and shoreline habitat mitigation that will benefit instream flows for anadromous fish.	Interview with Park manager
BCD	Property Owner	Lining/Piping	37	Benton	Park District	Yakima River	37	Benton	10	\$465,000	2007	0-5 yrs	Medium	This project at Horn Rapids Park would involve improvements to the pump station, piping and irrigation system to increase watering efficiency. The Park is willing to provide additional conservation practices, such as, expanded riparian plantings for shading and LWD for fish.	The Park is willing to provide additional conservation practices	

Table C-1

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project		Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Irrigation Entity Name	Stream Name	WRIA No.	County								
BCD	Property Owner	Lining/Piping	31	Benton	Park District	Columbia River	39	Benton	20	\$465,000	2007	0-5 yrs	Medium	This project at Two Rivers Park would involve improvements to the pump station, piping and irrigation system to increase watering efficiency. .	The Park is willing to provide additional conservation practices	Interview with Park manager    Aquavella findings, BCD records and general knowledge of area. No personal discussion with irrigation district people (could not make contact).
BCD	Property Owner	On-farm Conservation	37	Benton	Private Landowner	Yakima River	37	Benton	10,000-13,000	\$6 million	2007	0-5 yrs	High	This allocation would involve those irrigators on the lower yakima that may or may not receive water from irrigation districts. It is estimated there is approximately 25,000 to 30,000 irrigated acres in the Benton County portion of The Yakima River. It is assumed that a minimum of 10-15% on farm operational savings could be obtained by improving system efficiencies. This equates to the 3.5 ac/ft per acre operating costs that could be reduced to 2.5-3.0 ac/ft. per acre.	Obviously some funds would need to be dedicated to researching current out of non irrigation district users and then calculating the potential savings and required improvements to the water systems. All savings become critical to lower Yakima River flow improvements. While not as significant as the major irrigation district contribution, would still provide savings that will benefit fish.	
BCD	Irrigation District	Lining/Piping	37	Benton	Irrigation District	Yakima River	37	Benton	Unknown at this time	\$5.5 million	2007	0-5 yrs	High	This allocation would involve those irrigators on the lower yakima that are included in the Benton Irrigation District and would involve piping and lining the of The Yakima River. It is assumed that a minimum of 10-15% on farm operational savings could be obtained by improving system efficiencies.	Obviously some funds would need to be dedicated to researching current out of non irrigation district users and then calculating the potential savings and required improvements to the water systems. All savings become critical to lower Yakima River flow improvements. While not as significant as the	
BCD	Irrigation District	Lining/Piping	37	Benton	Irrigation District	Yakima River	37	Benton	Unknown at this time	\$3.5 million??	2007	0-5 yrs	High	This allocation would involve those irrigators in the Rosa/Sunnyside Irrigation District that lies within Benton County. This like all of the irrigation disytricts would involve piping and lining the of The Yakima River. It is assumed that a minimum of 10-15% on farm operational savings could be obtained by improving system efficiencies. This equates to the same relative calculations made for those small irrigators and residential users on the lower Yakima River.3.5 ac/ft per acre operating costs that could be reduced to 2.5-3.0 ac/ft. per acre.	No defined amount of water savings have been established and this allocation could contribute to determining the actual water conserved. However, the potential benefits to fish species could be significant, as flow is one the signle largest limiting factor to migrating fish species and water temperatures.	
BCD	Property Owner	On-farm Conservation	31	Benton	Private Landowner	Columbia River	39	Benton	Unknown at this time	\$3.5 million??	2007	0-5 yrs	Medium	This allocation would involve those irrigators on the Benton County portion of the Columbia River that may receive water from the Columbia or shallow wells. It is estimated there could be up to approximately 10,000 to 15,000 irrigated acres (assumed, not proven) in the Benton County portion of the Columbia River. It is assumed that a minimum of 10-15% on farm operational savings could be obtained by improving system efficiencies. This equates to the 3.5 ac/ft per acre operating costs that could be reduced to 2.5-3.0 ac/ft. per acre.	Obviously some funds would need to be dedicated to researching current out of non irrigation district users and then calculating the potential savings and required improvements to the water systems. All savings become critical to Columbia River flow improvements. While not as significant as the major irrigation district contribution, would still provide savings that will benefit fish.	

Table C-1

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project		Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Irrigation Entity Name	Stream Name	WRIA No.	County	Additional Details								
Kittitas Co CD	Property Owner	Lining/Piping	39	Kittitas	Private Landowner	Naneum Creek	39	Kittitas		1,522	\$2,093,034	2003	Unknown	Unknown	This project would install approximately 44,530 feet of pipe in various sizes from 10" to 30". This project would also combine four gravity diversion into one and install an approved fishscreen. The saved Qi is estimated to be a minimum of 6 cfs in May & June and 3 cfs July through October. The water for this project serves roughly 1300 acres.	Most of the water used on this 1300 acres does not return to Naneum Creek therefore the primary reach would be quit long. The enclosed system would create pressure to some landowners which would encourage them to convert from flood irrigation to sprinkler systems which in turn save even more water.	Kittitas Co. CD prior planning with the landowners and NRCS.
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Private Landowner	Yakima River	39	Kittitas		431	\$391,200	2006	Unknown	Unknown	This 130 acre irrigated area currently raises grass hay and pasture under wheel line and hand line sprinklers and the steel mainline is leaks a tremendous amount of water. The project would be to replace the mainline and upgrade the sprinklers to lateral move sprinklers and pivot sprinklers.		Kittitas Co. CD and NRCS communication with family property manager.
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Private Landowner	Park Creek	39	Kittitas		304	\$400,000	2006	Unknown	Unknown	This project would convert 152 acres of rill irrigated hay and crop land to sprinkler irrigation.	Improved water quality from a reduction of return flows would result. Approved fish screens and a water measurement device would be installed as part of the project.	Kittitas Co. CD communication with family property manager.
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Private Landowner	Cherry Creek	39	Kittitas		200	\$300,000	2006	Unknown	Unknown	This project would convert rill irrigated and wheel line sprinkler irrigated hay and crop land to more efficient pivot sprinkler irrigation.	Approved fish screens and a water measurement device would be installed as part of the project. A fish passage barrier will be eliminated.	Kittitas Co. CD communication with property owner.
Kittitas Co CD	Property Owner	Lining/Piping	39	Kittitas	Private Landowner	Cherry Creek	39	Kittitas		270	\$80,000	2006	0-5 yrs	High	This project will pipe 2000 feet of open dirt conveyance ditch.		Kittitas Co. CD communication with property owner.
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Private Landowner	Caribou Creek	39	Kittitas		150	\$250,000	2006	6-10 yrs	High	This project would convert 100 acres of rill irrigated hay and crop land to sprinkler irrigation.	Improved water quality from a reduction of return flows would result.	Kittitas Co. CD communication with property owner.
Kittitas Co CD	Other	Lining/Piping	39	Kittitas	Private Landowner	Manastash Creek	39	Kittitas									
Kittitas Co CD	Irrigation District	Other	39	Kittitas	Cascade Irrigation District	Yakima River	39	Kittitas		1,000	\$130,000	2005	0-5 yrs	High	Project would install a VFD on two of the eight pumps at the head end of the canal system.	Reduced electricity use.	Kittitas Co. CD communication with CID Manager
Kittitas Co CD	Irrigation District	Tailwater Reuse	39	Kittitas	Cascade Irrigation District	Yakima River	39	Kittitas		2,000	\$200,000	2005	Unknown	Unknown	Project would pump return flows from Johnson Drain back into the canal for reuse.		Kittitas Co. CD communication with CID Manager
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Cascade Irrigation District	Yakima River	39	Kittitas		13,500	\$22,500,000	2006	Unknown	Unknown	Conversion of 9,000 acres of rill irrigation to sprinkler irrigation.	Improved water quality from reduced return flows. Reduce risk of pesticide and fertilizer leaching.	Kittitas Co. CD knowledge of area

Table C-1

Table C-1. Kittitas County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project		Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Irrigation Entity Name	Stream Name	WRIA No.	County	Additional Details								
Kittitas Co CD	Property Owner	Lining/Piping	39	Kittitas	First Creek Water Users Assoc	First Creek	39	Kittitas	First Creek is a tributary of Swauk Creek which is a medium priority stream.	1,500	\$792,000	2006	Unknown	Unknown	Project would convert 5 miles of open ditch to a piped conveyance system. The water right has 6.95 cfs for conveyance loss		Kittitas Co. CD knowledge of area
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Ellensburg Water Company	Yakima River	39	Kittitas		150	\$250,000	2006	Unknown	Unknown	This project would convert 100 acres of rill irrigated hay and crop land to sprinkler irrigation.	Improved water quality from a reduction of return flows would result.	Kittitas Co. CD communication with property owner.
Kittitas Co CD	Property Owner	Lining/Piping	39	Kittitas	Bull Canal Company	Yakima River	39	Kittitas		384	\$315,000	2006	Unknown	High	Project will pipe 1,800 feet of canal.		Kittitas Co. CD communication a Bull Canal Co board member
Kittitas Co CD	Property Owner	Lining/Piping	39	Kittitas	Bull Canal Company	Yakima River	39	Kittitas		255	\$225,000	2006	Unknown	High	Project will pipe 3,000 feet of canal.		Kittitas Co. CD communication a Bull Canal Co board member
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Ellensburg Water Company	Yakima River	39	Kittitas		10,500	\$17,500,000	2006	Unknown	Unknown	Conversion of 7,000 acres of rill irrigation to sprinkler irrigation.	Improved water quality from reduced return flows. Reduce risk of pesticide and fertilizer leaching.	Kittitas Co. CD knowledge of area
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Westside Irrigation	Yakima River	39	Kittitas		4,950	\$8,250,000	2006	Unknown	Unknown	Conversion of 3,300 acres of rill irrigation to sprinkler irrigation.	Improved water quality from reduced return flows. Reduce risk of pesticide and fertilizer leaching.	Kittitas Co. CD knowledge of area
Kittitas Co CD	Property Owner	On-farm Conservation	39	Kittitas	Bull Canal Company	Yakima River	39	Kittitas		1,360	\$1,700,000	2006	Unknown	Unknown	Conversion of 680 acres of rill irrigation to sprinkler irrigation.	Improved water quality from reduced return flows. Reduce risk of pesticide and fertilizer leaching.	Kittitas Co. CD knowledge of area
Kittitas Co CD	Property Owner	Lining/Piping	39	Kittitas	Westside Irrigation	Yakima River	39	Kittitas		300	\$220,000	2006	Unknown	Unknown	Project will pipe 5,280 feet of canal.	Improved water quality from reduced return flows. Reduce risk of pesticide and fertilizer leaching.	Kittitas Co. CD knowledge of area
Kittitas Co CD	Property Owner	Tailwater Reuse	39	Kittitas	Westside Irrigation	Yakima River	39	Kittitas		900	\$320,000	2006	Unknown	Unknown	Project will pipe water back up to the canal from gravel pit area.		Kittitas Co. CD communication with system Manager
Kittitas Co CD	Irrigation District	Lining/Piping	39	Kittitas	Kittitas Reclamation District	Yakima River	39	Kittitas		47046	\$36,000,000	1999	6-10 yrs	Medium	Piping high loss laterals, construction of reregulation reservoir and canal automation	Provides pressure for landowner sprinklers, reducing pumping cost/electricity use. Reduces KRD maintenance and aquatic herbicide use.	KRD Water Conservation Plan, 1999
Kittitas Co CD	Irrigation District	Lining/Piping	39	Kittitas	Kittitas Reclamation District	Yakima River	39	Kittitas		2000	\$3,000,000	2006	0-5 yrs	High	Replace leaking areas of Main Canal with new concrete liner	Decreased maintenance costs.	

Table C-1

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project		Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Irrigation Entity Name	Stream Name	WRIA No.	County								
Palouse	Hospital			Whitman				Whitman						Need revers osmosis treatment for cooling tower blowdown. Drip irrigation for landscape		
Palouse	Hotel			Whitman				Whitman						Installation of low flow toilets		
Palouse	Hotel			Whitman				Whitman						Installation of ozone laundry system		
Palouse	University			Whitman				Whitman						Analyze the use of presently 'wasted 50,000 gpd cooling tower blowdown		
Palouse	University			Whitman				Whitman						Waterless urinals		
Palouse	University			Whitman				Whitman						Install service meters in zones of buildings to isolate water main leaks		
Palouse	University			Whitman				Whitman						Conversion of old washing machines to front-load conservation machines using 1/3 less water		
Palouse	Municipality			Whitman				Whitman						Re-use of wastewater effluent to water university golf course and other potential recipients		
Palouse	Municipality			Whitman				Whitman						Rebate program for domestic homeowners and multi-family units for retrofit of conservation fixtures		
Palouse	Palouse Conservation District	general water conservation		Whitman				Whitman		40,000	2007			1 FTE for water conservation specialist		
Palouse	Palouse Conservation District	general water conservation		Whitman				Whitman		40,000	2007			funding AmeriCorps volunteers for full time water conservation education/outreach coordinator		
Palouse	Palouse Conservation District	general water conservation		Whitman				Whitman						Need cost-share program for homeowners/landowners/businesses to convert from high use water systems to low use systems such as drip irrigation, xeriscape designs and use of grey water		
Palouse	Palouse Conservation District	general water conservation		Whitman				Whitman						Need for dry hydrant development in rural areas		
Palouse	Palouse Conservation District	general water conservation		Whitman				Whitman						Need funding to implement impervious surface impact reduction program (roof gardens, rain gardens, storm water catchment/infiltration, etc.)		
Palouse	Palouse Conservation District	general water conservation		Whitman				Whitman		12,000	2007			Need funding for creation and maintenance of xeriscape demonstration garden		

Table C-1. Walla Walla County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County									
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	34E		Old Lowden Ditch	Walla Walla River	32	Walla Walla	1,127	\$970,000	2006		High	Pipe 31,500 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish passage in the lower Walla Walla River.		System includes sections 28, 29, 30
WWCCD	Other Irrigation Entity (ditch company, etc)	On-farm Conservation	32	Walla Walla	07N	34E		Old Lowden Ditch	Walla Walla River	32	Walla Walla	765	\$1,275,000	2006		High	Convert 510 acres from flood to sprinkler irrigation.	Improve fish passage in the lower Walla Walla River.		System includes sections 28, 29, 30.
WWCCD	Other Irrigation Entity (ditch company, etc)	On-farm Conservation	32	Walla Walla	07N	34E		Old Lowden Ditch	Walla Walla River	32	Walla Walla	78	\$275,000	2006		High	Convert 110 acres from handline to center pivot.	Improve fish passage in the lower Walla Walla River.		System includes sections 28, 29, 30.
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	34E		Lowden 2 Ditch	Walla Walla River	32	Walla Walla	890	\$800,000	2006		High	Pipe 26,000 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish passage in the lower Walla Walla River.		System includes sections 31-35.
WWCCD	Other Irrigation Entity (ditch company, etc)	On-farm Conservation	32	Walla Walla	07N	34E		Lowden 2 Ditch	Walla Walla River	32	Walla Walla	107	\$178,000	2006		High	Convert 71 acres from flood to sprinkler irrigation.	Improve fish passage in the lower Walla Walla River.		System includes sections 31-35.
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	34E		Garden City Ditch	Walla Walla River	32	Walla Walla	250	\$415,000	2006		High	Pipe 13,500 feet of ditch and create a closed system.	Improve fish passage in the lower Walla Walla River.		System includes sections 31-34.
WWCCD	Other Irrigation Entity (ditch company, etc)	On-farm Conservation	32	Walla Walla	07N	34E		Garden City Ditch	Walla Walla River	32	Walla Walla	648	\$1,080,000	2006		High	Convert 432 acres from flood to sprinkler irrigation.	Improve fish passage in the lower Walla Walla River.		System includes sections 31-34.
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	06N	34E		Mud Creek 7 Ditch	Walla Walla River	32	Walla Walla	230	\$341,000	2006		High	Pipe 12,100 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish passage in the lower Walla Walla River.		System includes sections 31, 32, 33.
WWCCD	Other Irrigation Entity (ditch company, etc)	On-farm Conservation	32	Walla Walla	06N	34E		Mud Creek 7 Ditch	Walla Walla River	32	Walla Walla	336	\$560,000	2006		High	Convert 224 acres from flood to sprinkler irrigation.	Improve fish passage in the lower Walla Walla River.		System includes sections 31, 32, 33
WWCCD	Irrigation District	Lining/Piping	32	Walla Walla	07N	33E		Touchet East Side Ditch	Touchet River	32	Walla Walla	905	\$825,000	2006		High	Pipe 26,600 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish passage in the Lower Touchet Walla Walla Rivers.		System includes sections 22, 26, 27, 34,35
WWCCD	Irrigation District	Lining/Piping	32	Walla Walla	07N	33E		Touchet West Side Ditch	Touchet River	32	Walla Walla	880	\$861,000	2006		High	Pipe 24,600 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish passage in the Lower Touchet Walla Walla Rivers.		System includes sections 15, 22, 27, 28, 33, 34.
WWCCD	Irrigation District	On-farm Conservation	32	Walla Walla	07N	33E		Touchet West Side Ditch	Touchet River	32	Walla Walla	281	\$468,000	2006		High	Convert 187 acres from flood to sprinkler irrigation.	Improve fish passage in the lower Walla Walla River.		System includes sections 15, 22, 27, 28, 33, 34.
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	34E	27	Bergivin/Williams Ditch	Walla Walla River	32	Walla Walla	644	\$558,000	2006		High	Pipe 18,000 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish passage in the lower Walla Walla River.		System includes sections 27,28,34,35,36.
WWCCD	Other Irrigation Entity (ditch company, etc)	On-farm Conservation	32	Walla Walla	07N	34E	27	Bergivin/Williams Ditch	Walla Walla River	32	Walla Walla	159	\$563,000	2006		High	Convert 225 acres from handline to center pivot.	Improve fish passage in the lower Walla Walla River.		System includes sections 27,28,34,35,36.
WWCCD	Irrigation District	Lining/Piping	32	Walla Walla	06N	34E		Gardena Farms	Walla Walla River	32	Walla Walla	XXX	\$12.8 Million	2006		High	Pipe xxxxxxx feet of ditch and create a closed system.	Improve fish passage in the lower Walla Walla River.		
WWCCD	Municipality	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E		City of Walla Walla	Mill Creek	32	Walla Walla	258	\$735,000	2006		High	Install a weather station, radio activated automatic irrigation controllers, and a radio repeater station to control 3500 residential lawn systems.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek		Residences are located throughout the city.
WWCCD	Municipality	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E		City of Walla Walla	Mill Creek	32	Walla Walla	201	\$2,100,000	2006		High	Retrofit 3500 residential irrigation systems to high efficiency sprinklers.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek		Residences are located throughout the city.
WWCCD	Municipality	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E		City of Walla Walla	Mill Creek	32	Walla Walla	110	\$110,000	2006		High	Install moisture monitoring devices in 220 acres of city parks to activate automatic irrigation controllers.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek		
WWCCD	Municipality	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E	17	City of Walla Walla	Mill Creek	32	Walla Walla	48	\$48,000	2006		High	Install moisture monitoring devices to activate automatic irrigation controllers on a 95 acre golf course.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek		
WWCCD	Municipality	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E	32	City of Walla Walla	Mill Creek	32	Walla Walla	33	\$33,000	2006		High	Install moisture monitoring devices to activate automatic irrigation controllers in a 65 acre cemetery.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek		
WWCCD	Municipality	Automation/Irrigation Water Mgmt	32	Walla Walla	09N	37E	11	Waitsburg	Coppei Creek	32	Walla Walla	12	\$12,000	2006		High	Install moisture monitoring devices in the 12 acre city park to activate an automatic irrigation controller.	Improve fish habitat, fish passage, and water temperature quality in upper Coppei Creek		
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	35E		Blalock Ditch	Mill Creek	32	Walla Walla	35	\$198,000	2006		High	Pipe 13,200 ft of ditch.	Improve fish habitat, fish passage, and water temperature quality in Mill Creek		System includes sections 23,24,25,26.
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	10N	36E	33	Prescott Schools	Other	32	Walla Walla	8	\$12,000	2006		High	Install moisture monitoring devices to activate an automatic irrigation controller on 15 acres.	Reduce pressure on the basalt aquifer.		
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E	30	Walla Walla V.A. Hospital	Other	32	Walla Walla	18	\$12,000	2006		High	Install moisture monitoring devices to activate an automatic irrigation controller for 35 acres.	Reduce pressure on the basalt aquifer.		

Table C-1. Walla Walla County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County									
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	35E	35	Walla Walla College And WWVA	Other	32	Walla Walla	19	\$12,000	2006		High	Install moisture monitoring devices in the city park to activate an automatic irrigation controller for 37 acres	Reduce pressure on the basalt aquifer.		
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E	20	City of Walla Walla	Mill Creek	32	Walla Walla	13	\$24,000	2006		High	Install moisture monitoring devices in the city park to activate an automatic irrigation controller.26 acres	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek.		
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E		City of Walla Walla	Mill Creek	32	Walla Walla	9	\$12,000	2006		High	Install moisture monitoring devices to activate an automatic irrigation controller on 17 acres.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek.		
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E		City of Walla Walla	Mill Creek	32	Walla Walla	30	\$24,000	2006		High	Install moisture monitoring devices to activate an automatic irrigation controller on 60 acres.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek.		System includes sections 15, 22
WWCCD	Property Owner	Automation/Irrigation Water Mgmt	32	Walla Walla	07N	36E		City of Walla Walla	Mill Creek	32	Walla Walla	48	\$36,000	2006		High	Install moisture monitoring devices to activate an automatic irrigation controller on 95 acres.	Improve fish habitat, fish passage, and water temperature quality in upper Mill Creek.		Includes 9 campuses.
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	36E		Johnson Ditch	Mill Creek	32	Walla Walla	8	\$30,000	2006		High	Pipe 3,000 feet of ditch and create a closed system.	Improve fish habitat, fish passage, and water temperature quality in Mill Creek.		
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	36E		Dead End Ditch	Mill Creek	32	Walla Walla	12	\$55,000	2006		High	Pipe 4,500 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish habitat, fish passage, and water temperature quality in Mill Creek.		
WWCCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	32	Walla Walla	07N	35E		Bossini Ditch	Mill Creek	32	Walla Walla	16	\$90,000	2006		High	Pipe 6,000 feet of ditch and create a closed system with a variable frequency lift pump.	Improve fish habitat, fish passage, and water temperature quality in Mill Creek.		system includes sections 19,25,30.
WWCCD	Other	On-farm Conservation	32	Walla Walla				Private landowners	Walla Walla River	32	Walla Walla	2,000	\$1.5 Million	2006		High	Convert 1,000 acres in the Walla Walla River basin from alfalfa and pasture to vineyard.	Improve fish habitat, fish passage, and water temperature quality in the Walla Walla River basin.		Acreages will occur across the basin.
WWCCD	Other	Automation/Irrigation Water Mgmt	32	Walla Walla				Private landowners	Walla Walla River	32	Walla Walla	5,000	\$300,000	2006		High	Install weather stations and implement scheduling services across the Walla Walla River basin.	Improve fish habitat, fish passage, and water temperature quality in the Walla Walla River basin.		Acreages will occur across the basin.
WWCCD	Other	Surface to Groundwater Conversion	32	Walla Walla				Private landowners	Walla Walla River	32	Walla Walla	360	\$200,000	2006		High	Convert surface diversions to wells.	Improve fish habitat, fish passage, and water temperature quality in the Walla Walla River basin.		Diversion points will be across the basin.
WWCCD	Other	Water Right Purchase	32	Walla Walla				Private landowners	Walla Walla River	32	Walla Walla	360	\$200,000	2006		High	Lease any available water right from willing landowners. Purchase junior water rights and rights that have been marginalized due to their small size.	Improve fish habitat, fish passage, and water temperature quality in the Walla Walla River basin.		Diversion points will be across the basin.
WWCCD	Other	Water Right Purchase	32	Walla Walla				Private landowners	Walla Walla River	32	Walla Walla	5,000	\$300,000	2006		High	Provide a free soil moisture monitoring service to irrigated farms in Walla Walla County. The intent would be to educate the irrigators on the value of soil moisture monitoring in terms of reduced pumping cost resulting in saved water.	Improve fish habitat, fish passage, and water temperature quality in the Walla Walla River basin.		Acreages will occur across the basin.

Table C-1



Table C-1. North Yakima Conservation District Conservation Projects Inventory Results

CD Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source						Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	
			WRIA No.	County	Township	Range	Section	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range								Section
NYCD	Irrigation District	Storage/Re-reg Reservoirs	37	Yakima	12N	16E	12		Ahtanum ID	Ahtanum Creek	37	Yakima	12N	15E	12	? Storage project, limited water savings with water right holders	?40 million	?	0-5 yrs	High	This Project is a storage and piping project and currently is in the planning stages and has received planning funding from DOE, details can be obtained as necessary from the Ahtanum Irrigation District. The NYCD has continued to work with AID and has put together a CWCP funded by the DOE referendum 38 funding to produce the planning document. This project is commonly known as the Pine Hollow Project. This will serve 1800 acre and the District is ready to go..	in stream flow during summer and fall with opened access to 15+ miles of screened creek channels, new base flow to be added to the Yakima and Columbia Rivers a high potential, tremendous benefit to Fisheries resources in a high priority tributary
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	37	Yakima	12N	16E	08		John-Cox Ditch	Ahtanum Creek	37	Yakima	12N	15E	12	? 100 ac/ft	?5 million	?	0-5 yrs	High	This project is complimentary to the AID storage project or can be stand alone, it will be the mechanism by which the storage reservoir is filled "Pine Hollow" (approx. 4 miles of ditch	As a stand alone project it can increase in stream flow to the Ahtanum Creek and benefit listed species of fish
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	37	Yakima	12N	16E	17		Shaw-Knox Ditch	Ahtanum Creek	37	Yakima	12N	16E	07	?	\$350,000	2006	0-5 yrs	Medium	Piping a ditch Co to the current points of use(2 miles).	In stream flow increase for fish habitat
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	37	Yakima	12N	16E	16		Lesh Ditch Co	Ahtanum Creek	37	Yakima	12N	16E	16	?	\$150,000	2006	0-5 yrs	Medium	Piping a ditch Co to the current points of use (1 mile).	In stream flow increase for fish habitat
NYCD	Irrigation District	Lining/Piping	37	Yakima	13N	20E	32		Selah-Moxee Irrigation District	Yakima River	37	Yakima	14N	19E	08	3755-14,000+.	\$27,000,000	1995	0-5 yrs	High	This Project has been looked at through the DOE ref. 38 program. NYCD helped prepare the document and SMID continues to work with NYCD to seek funds/discuss alternative and basically look at any opportunity to improve the delivery system with the knowledge that they have water to deal with. The Project will pipe and deliver pressurized water the the apprx. 7500 acres.	This Project has great potential for increasing flows because the ID has "storage water as part of their water rights. This could be used to "pay for the Pipe" and then called upon by the purchaser at any time. There has also been a great deal of on-farm conversion from furrow to drip irrigation (80%-90%of the total irrigated acreage). This would make it relatively simple to calculate yearly needs for consumptive use and dedicate the remaining water to in-stream flow. In addition idle lands could also be identified and that water put in stream. Bottom line is that the ID is ready and has many tools already in place to maximize the water benefits of a pressurized piped system.
NYCD	Irrigation District	Automation/Irrigation Water Mgmt	37	Yakima	12N	19E	21		Union Gap Irrigation District	Yakima River	37	Yakima	13N	19E	07	? 200 ac/ft	?500,000	2006	0-5 yrs	Unknown	Piping a ditch Co to the current points of use (approx 4 miles).	In stream flow increase for fish habitat
NYCD	Municipality	Lining/Piping	38	Yakima	13N	18E	14		City of Yakima	Naches River	38	Yakima	13N	18E	09	see note	\$20,700,000	2001	6-10 yrs	High	This Project comes from the City of Yakima's Master Irrigation Plan prepared by Golder and Associates. Details on water savings, lists of other alternatives and costs can be obtained from the City of Yakima. The main elements of the project are to repair and replace the 100 plus year old system. Water savings can be negotiated specific to funding sources. Because the service area has been converted from historically irrigated farmland to urban and metropolitan less water maybe needed at this time. Those discussions should be had with the City of Yakima.	We would need to contact the City of Yakima Directly to really identify the other benefit potential. The City of Yakima has a high interest in moving forward with their Master Plan or even portions of the Plan.
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	38	Yakima	13N	18E	35		Naches and Cowiche Canal Company	Naches River	38	Yakima	13N	18E	09	est.600 ac/ft	\$15,000,000	2006	6-10 yrs	Unknown	Piping a ditch Co to the current points of use (serving 2400 acres 5.5 mile of ditch).	This Project could be combined with the Naches and Cowiche Canal Company Project to gain cost efficiencies. At this time I do not know the status of those ideas or if the two companies have even talked. Fish resources in the Naches river and Yakima Floodplain reach would be benefited.
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	38	Yakima	13N	18E	28		Yakima Valley Canal Company	Naches River	38	Yakima	14N	17E	24	est. 500 ac/ft	\$25,000,000	2006	6-10 yrs	Unknown	Piping a ditch Co to the current points of use (4300 acres approx 15 miles of ditch).	This Project could be combined with the Yakima Valley Canal Company Project to gain cost efficiencies. At this time I do not know the status of those ideas or if the two companies have even talked. Fish resources in the Naches river and Yakima Floodplain reach would be benefited.
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	38	Yakima	14N	18E	30		Gleed Ditch Company	Naches River	38	Yakima	14N	17E	24	est. 100 ac/ft	\$5,000,000	2006	0-5 yrs	Unknown	Piping a ditch Co to the current points of use (1280 acres, approx. 6.5 miles of ditch).	Fisheries Resources in the Naches and Yakima river floodplain would be benefited.
NYCD	Irrigation District	Lining/Piping	38	Yakima	14N	17E	23		South Naches Irrigation District	Naches River	38	Yakima	14N	17E	04	14,999 ac/ft	\$5,400,000	1994	0-5 yrs	High	This Project involves piping and pump/pressurizing a irrigation system (1811 acres). The ID has worked with NYCD to produce a CWCP funded through DOE's Ref. 38 Program. The ID currently is working with the WA dept of Ag in a CIDWMP process too.	The project would benefit fish resources get the District in ESA and environmental compliance and the District is ready to go ASAP.



Table C-1. North Yakima Conservation District Conservation Projects Inventory Results

CD Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source						Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	
			WRIA No.	County	Township	Range	Section	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range								Section
NYCD	Irrigation District	Lining/Piping	38	Yakima	14N	18E	33		Naches - Selah Irrigation District	Naches River	38	Yakima	15N	16E	35	5293 ac/ft	\$15,880,000	1994	0-5 yrs	High	This Project would pipeline the NSID delivery system to their approx 13,000 acres. The NSID has worked with NYCD to Produce a CWCP funded by DOE's Ref. 38 program and is ready to go.	Fisheries Resources in the Naches and Yakima river floodplain would be benefited.
NYCD	Other	Lining/Piping	38	Yakima	15N	17E	33		Wapatox Ditch Company / Bureau of Reclamation Trustee	Naches River	38	Yakima	15N	16E	36	10,413 ac/ft	\$7,000,000	2006	0-5 yrs	High	This project would pipe the irrigation water left to the Wapatox water right holders (2604 acres/50 cfs max flow). Currently the BOR has purchased 450 cfs power water right and reverted it back the Naches river, however the irrigation water right is being delivered via the 500cfs canal and as a result a tremendous amount of extra water is needed to move the 50 cfs.	Fisheries Resources in the Naches and Yakima river floodplain would be benefited.
NYCD	Other Irrigation Entity (ditch company, etc)	Lining/Piping	38	Yakima	16N	15E	28		Nile Valley Ditch Association	Naches River	38	Yakima	16N	15E	21	395 ac/ft	\$500,000	2006	0-5 yrs	Unknown	This Project would pipe the delivery for apprx 300 acres.	Piping this Project would allow a full water right in the Nile creek to be trusted for instream flow (apprx 80 acres) for a high priority tributary and it's fisheries resources
NYCD	Irrigation District	Storage/Re-reg Reservoirs	39	Yakima	15N	17E	13		Wenas Irrigation District	Wenas Creek	38	Yakima	15N	17E	02	?	?		0-5 yrs	High	?	NYCD has continued to have contact with the Wenas Irrigation District over the years. They have a great set of "tools" including a BOR built storage facility. The Fisheries benefit would be great in the Wenas Creek as well as the Yakima.

Table C-1. Lincoln County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range							
Lincoln County Conservation District	Property Owner	Automation/Irrigation Water Mgmt	43	Lincoln	21N	32E			43	Lincoln	21N	32E				dependent upon irrigation system and specific conditions where reductions in amount of water pumped are needed  Install variable speed control panel on center pivot irrigation systems to adjust the speed at which the deep well irrigation pumps run and thus the volume of water pumped at any given moment	Project is primarily for energy conservation but also has the <b>potential for water conservation</b> . Current center pivot irrigation system may require occasional dumping of water in order to reduce pressure when lower volumes of water are needed from time to time. Varying the speed of the pump will allow the operator to reduce the volume of water pumped from the deep well as needed and thus eliminate the need to dump water to reduce pressure.		Potential project discussed with Inland Power and Light in spring 2006 but has not been funded due to shortfalls in funding through BPA grants. Each variable speed panel is estimated to cost about \$10,000. The property owner can not afford to install variable speed panels without grant funding.
Lincoln County Conservation District	Property Owner	Automation/Irrigation Water Mgmt	41	Lincoln	21N	31E			41	Lincoln	21N	31E				dependent upon irrigation system and specific conditions where reductions in amount of water pumped are needed  Install variable speed control panel on center pivot irrigation systems to adjust the speed at which the deep well irrigation pumps run and thus the volume of water pumped at any given moment	Project is primarily for energy conservation but also has the <b>potential for water conservation</b> . Current center pivot irrigation system may require occasional dumping of water in order to reduce pressure when lower volumes of water are needed from time to time. Varying the speed of the pump will allow the operator to reduce the volume of water pumped from the deep well as needed and thus eliminate the need to dump water to reduce pressure.		Potential project discussed with Inland Power and Light in spring 2006 but has not been funded due to shortfalls in funding through BPA grants. Each variable speed panel is estimated to cost about \$10,000. The property owner can not afford to install variable speed panels without grant funding.
Lincoln County Conservation District	Property Owner	Automation/Irrigation Water Mgmt	43	Lincoln	24N	33E			43	Lincoln	23N	33E				dependent upon irrigation system and specific conditions where reductions in amount of water pumped are needed  Install variable speed control panel on center pivot irrigation systems to adjust the speed at which the deep well irrigation pumps run and thus the volume of water pumped at any given moment	Project is primarily for energy conservation but also has the <b>potential for water conservation</b> . Current center pivot irrigation system may require occasional dumping of water in order to reduce pressure when lower volumes of water are needed from time to time. Varying the speed of the pump will allow the operator to reduce the volume of water pumped from the deep well as needed and thus eliminate the need to dump water to reduce pressure.		Potential project discussed with Inland Power and Light in spring 2006 but has not been funded due to shortfalls in funding through BPA grants. Each variable speed panel is estimated to cost about \$10,000. The property owner can not afford to install variable speed panels without grant funding.
Lincoln County Conservation District	Municipality	Other	43	Lincoln	23N	39E	Edwall Water Association		43	Lincoln	23N	39E				All of one water right and part of a second water right were proposed to be relinquished. Exact amount of water to be relinquished is unknown  The Edwall Water Association proposed to drill a new water well to replace the old water well that is failing. All of one water right would be relinquished and part of another water right would be relinquished. For the remaining portion of the second water right, 130 GPM would be reserved to serve the current 87 residents, 7 businesses, and cover up to 20% increase in water needs for Edwall.	The new water well should provide a more reliable source of high water quality for Edwall.	WRIA 43 Planning Unit Meeting Minutes, November 15th, 2005. Available on the WRIA 43 website.	The Edwall Water Association notified the WRIA 43 Planning Unit of its proposed changes to its municipal water supply system in the fall of 2005, as required by Watershed Planning law. The only comment from the Planning Unit was that the if the casing/borehole in the old well started collapsing, the old well should be properly decommissioned/abandoned. The Planning Unit does not know what the current status of the project is and if grant funding is needed to complete the project.
Lincoln County Conservation District	Municipality	Other	43	Lincoln	26N	31E	Town of Almira		43	Lincoln	26N	31E				dependent upon water losses from current water supply system in Almira  The Town of Almira is proposing to replace its current 6" water mains with 20" water mains in order to improve water pressure and eliminate leaks from the old water mains. The town is currently seeking grant funding in order to implement this proposed project.	New water mains should reduce water losses due to leakage and should also reduce any contamination from holes in the old water mains.	WRIA 43 Planning Unit Meeting Minutes, August 15th, 2006. Will soon be available on the WRIA 43 website.	The Town of Almira notified the WRIA 43 Planning Unit of its proposed changes to its municipal water supply system in August of 2006, as required by Watershed Planning law. The Town of Almira may seek help from the Planning Unit in obtaining grant funding for its proposed project. The Planning Unit currently has no specific comments on the proposed changes to the Almira water supply system.
Lincoln County Conservation District	Other	Other	43	Lincoln					43	Lincoln						dependent upon water supply systems in the cities across WRIA 43  Recommend that WRIA 43 WIT (Watershed Implementation Team), Department of Ecology, and local communities seek funding to evaluate conservation programs for local community Group A municipal water systems	<b>Water conservation</b> within the local communities of WRIA 43 has the potential to save significant amounts of water being pumped from deep wells for these municipalities. Reducing water use will relieve pressure on the basalt aquifer(s) supplying the water and will also reduce costs for city residents by reducing the need to increase the output of existing wells or drill additional wells	Recommendation F-1(a), from Water Quantity Issue. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	Other	43	Lincoln					43	Lincoln						dependent upon water supply systems in the cities across WRIA 43  Recommend that local communities implement conservation programs identified in Recommendation F-1(a) above.	<b>Water conservation</b> within the local communities of WRIA 43 has the potential to save significant amounts of water being pumped from deep wells for these municipalities. Reducing water use will relieve pressure on the basalt aquifer(s) supplying the water and will also reduce costs for city residents by reducing the need to increase the output of existing wells or drill additional wells	Recommendation F-1(b), from Water Quantity Issue. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. This potential water conservation project is a municipal water conservation project. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	Other	43	Lincoln					43	Lincoln						dependent upon water supply systems in the cities across WRIA 43  Recommend that WRIA 43 WIT work with local communities to assure they are implementing conservation programs as required by municipal water law.	<b>Water conservation</b> within the local communities of WRIA 43 has the potential to save significant amounts of water being pumped from deep wells for these municipalities. Reducing water use will relieve pressure on the basalt aquifer(s) supplying the water and will also reduce costs for city residents by reducing the need to increase the output of existing wells or drill additional wells	Recommendation F-2(a), from Water Quantity Issues. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range							
Lincoln County Conservation District	Other	Other	43	Lincoln					43	Lincoln					High	dependent upon water supply systems in the cities across WRIA 43  Recommend that WRIA 43 WIT work with local communities to identify funding sources to upgrade infrastructure (e.g. leak detection, repair, etc.), specifically to promote the conservation of water.	Water conservation within the local communities of WRIA 43 has the potential to save significant amounts of water being pumped from deep wells for these municipalities. Reducing water use will relieve pressure on the basalt aquifer(s) supplying the water and will also reduce costs for city residents by reducing the need to increase the output of existing wells or drill additional wells	Recommendation F-2(b), from Water Quantity Issue. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	Other	43	Lincoln					43	Lincoln				0-5 yrs	Medium	dependent upon water supply systems in the cities across WRIA 43  Recommend that the Department of Ecology and WRIA 43 WIT seek funding for local communities within WRIA 43 to evaluate reuse and reclaim water alternatives as outlined in RCW 90.82	Water conservation within the local communities of WRIA 43 has the potential to save significant amounts of water being pumped from deep wells for these municipalities. Reducing water use will relieve pressure on the basalt aquifer(s) supplying the water and will also reduce costs for city residents by reducing the need to increase the output of existing wells or drill additional wells	Recommendation F-4(a), from Water Quantity Issue. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln					43	Lincoln				0-5 yrs	High	dependent upon water supply systems in farms across WRIA 43  Recommend that WRIA 43 WIT, LCCD (Lincoln County Conservation District), and other agricultural agencies develop recommendations for an agricultural water conservation program	The Phase 2 Technical Assessment estimated that irrigated agriculture accounted for about 94% of total water use in the watershed. Conservation of water by irrigated agriculture has the most potential to save the most water in WRIA 43	Recommendation F-3(a), from Water Quantity Issue. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln					43	Lincoln				0-5 yrs	Medium	dependent upon water supply systems in farms across WRIA 43  Recommend that WRIA 43 WIT, LCCD (Lincoln County Conservation District), and Ecology promote agricultural conservation programs through public outreach and educational programs within the watershed, to include public presentations and an annual Focus sheet on agricultural conservation.	The Phase 2 Technical Assessment estimated that irrigated agriculture accounted for about 94% of total water use in the watershed. Conservation of water by irrigated agriculture has the most potential to save the most water in WRIA 43	Recommendation F-3(b), from Water Quantity Issue. Page 4-20, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln					43	Lincoln				0-5 yrs	Medium	dependent upon water supply systems in the cities across WRIA 43  Recommend that Ecology support the WRIA 43 WIT in search of funding options for evaluation of ASR for areas where recharge of local communities treated effluent is feasible. Also recommended that Ecology and WRIA 43 WIT evaluate the potential for transfer of other reuse and reclaim water options from outside the watershed for storage and/or aquifer recharge within the WRIA 43 boundaries.	ASR (Aquifer Storage and Recovery) has been discussed as a water storage option with some significant advantages at Planning Unit meetings. If the water to be stored can be cleaned up to drinking water quality, it could be stored in vast basalt aquifers that underlie WRIA 43. The water can be stored without flooding out people and riparian habitat and the water will also remain cool and not warm up in summer as with surface reservoirs.	Recommendation F-5(a), from Water Quantity Issue. Page 4-21, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln				0-5 yrs	High	dependent upon water supply systems across WRIA 43  Recommend that a database of the location of abandoned uncased groundwater wells in WRIA 43 that are currently within existing hydrostratigraphic database (such as the GWMA's) be developed to assist with the recommended water quality and quantity alternatives outlined in the WRIA 43 Plan	Abandoned, uncased wells are a potential threat to groundwater quality and quantity. If abandoned, uncased wells have water cascading from upper aquifers down the borehole to lower aquifers, then excessive amounts of groundwater may be lost from the upper aquifers. Properly abandoning or properly retrofitting these wells with casing and bentonite seals will <b>conserve water</b> in the upper aquifers for nearby domestic wells and provide more water to any local streams that are hydrologically connected to the upper aquifers.	Recommendation A-6(a), from Water Quantity Issue. Page 4-17, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln				0-5 yrs	High	dependent upon water supply systems across WRIA 43  Recommend that funding be sought to conduct a study to estimate how many groundwater wells are withdrawing groundwater from each of the hydrostratigraphic units in WRIA 43, inclusive of estimating which wells are open through multiple aquifers. Recommend data be used to further refine alternative solutions in future revisions of the Plan.	If improperly cased wells have water cascading from upper aquifers down the borehole to lower aquifers, then excessive amounts of groundwater may be lost from the upper aquifers. Properly retrofitting these wells with casing and bentonite seals will conserve water in the upper aquifers for nearby domestic wells and provide more water to any local streams that are hydrologically connected to the upper aquifers.	Recommendation A-6(b), from Water Quantity Issue. Page 4-18, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln				0-5 yrs	High	dependent upon water supply systems across WRIA 43  Recommend that funding be sought to identify priority subbasin areas where uncased wells are connecting groundwater aquifers and impacting both water quantity and quality. Recommend mitigation strategies be developed to support long range planning as identified in A-6(d) and A-6(e).	Abandoned, uncased wells are a potential threat to groundwater quality and quantity. If abandoned, uncased wells have water cascading from upper aquifers down the borehole to lower aquifers, then excessive amounts of groundwater may be lost from the upper aquifers. Properly abandoning or properly retrofitting these wells with casing and bentonite seals will <b>conserve water</b> in the upper aquifers for nearby domestic wells and provide more water to any local streams that are hydrologically connected to the upper aquifers.	Recommendation A-6(c), from Water Quantity Issue. Page 4-18, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>

Table C-1. Lincoln County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source						Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range									
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln			dependent upon water supply systems in farms across WRIA 43	Unknown	Unknown	0-5 yrs	High	Recommendation for Ecology to fund the development of a well abandonment/renovation program for WRIA 43 to mitigate irrigation wells screened through multiple aquifers to include potential financial assistance to landowners to mitigate impacts from improperly cased wells, inclusive of potential financial assistance for construction of new wells in accordance with WAC 173-160.	If improperly cased wells have water cascading from upper aquifers down the borehole to lower aquifers, then excessive amounts of groundwater may be lost from the upper aquifers. Properly retrofitting these wells with casing and bentonite seals will <b>conserve water</b> in the upper aquifers for nearby domestic wells and provide more water to any local streams that are hydrologically connected to the upper aquifers.	Recommendation A-6(d), from Water Quantity Issue. Page 4-18, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln			dependent upon water supply systems across WRIA 43	Unknown	Unknown	0-5 yrs	High	Recommendation for Ecology to fund the development of a well abandonment/renovation program for WRIA 43 to mitigate domestic wells which are uncased through multiple aquifers, and develop a financial and technical assistance program to allow local landowners to reconstruct wells in accordance with WAC 173-160.	If improperly cased wells have water cascading from upper aquifers down the borehole to lower aquifers, then excessive amounts of groundwater may be lost from the upper aquifers. Properly retrofitting these wells with casing and bentonite seals will <b>conserve water</b> in the upper aquifers for other nearby domestic wells and provide more water to any local streams that are hydrologically connected to the upper aquifers.	Recommendation A-6(e), from Water Quantity Issue. Page 4-18, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln			dependent upon water supply systems in farms across WRIA 43	Unknown	Unknown	0-5 yrs	High	Priority recommendation for Ecology to fund WRIA 43 WIT to initiate an abandonment program on deep irrigation wells that are no longer utilized and are degrading water quality and quantity in the watershed. Program to consist of developing a 10 to 15 year Well Abandonment Management Plan that outlines prioritized subbasins, additional required assessments, funding requirements, and program goals, objectives, and milestones for a long range mitigation program. Well Abandonment Management Plan to set forth goals and funding alternatives to b accomplished uner C-6(d-e).	Abandoned, uncased wells are a potential threat to groundwater quality and quantity. If abandoned, uncased wells have water cascading from upper aquifers down the borehole to lower aquifers, then excessive amounts of groundwater may be lost from the upper aquifers. Properly abandoning or properly retrofitting these wells with casing and bentonite seals will <b>conserve water</b> in the upper aquifers for nearby domestic wells and provide more water to any local streams that are hydrologically connected to the upper aquifers.	Recommendation A-6(f), from Water Quantity Issue. Page 4-18, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln			The amount of water stored and released later in the year will depend upon the type and scale of the specific projects implemented across WRIA 43	Unknown	Unknown	0-5 yrs	High	Obligate Ecology, Bureau of Reclamation, Lincoln and Grant Counties to evaluate the affects of Bureau of Reclamation Water Right Certificate number R3-00013C for "the withdrawal of all unappropriated public waters of Moses Lake, Crab Creek, Rocky Ford Creek, Lind Coulee, and tributaries thereto" on potential storage alternatives in WRIA 43 and initiate discussions with the BOR to evaluate which storage alternatives may be amenable to the BOR for increasing groundwater recharge in the Crab Creek drainage basin.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Obligation A-1(f), from Water Storage Issue. Page 4-54, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln			The amount of water stored and released later in the year will depend upon the type and scale of the specific projects implemented across WRIA 43	Unknown	Unknown	0-5 yrs	High	Obligate Ecology to support surface water infiltration projects to increase aquifer recharge in areas where there is an overallocation of groundwater withdrawals in the Upper Crab Creek Watershed.	Storage of excess runoff water from Crab Creek and its tributaries can help recharge depleted aquifers. Water storage is one way to add to the amount of water made available by water conservation.	Obligation A-2(c), from Water Storage Issue. Page 4-54, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln			The amount of water stored and released later in the year will depend upon the type and scale of the specific projects implemented across WRIA 43	Unknown	Unknown	0-5 yrs	High	Obligate Ecology to approve small voluntary and larger governmental instream restoration projects such as development of sinuosity of stream channels, wetland creation and/or restoration, flood plain restoration and habitat enhancement projects to reduce high runoff events. Projects to be supported under the guidance set forth in conjunction with Habitat recommendations put forth in this plan.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation. Water storage projects that infiltrate runoff water into shallow aquifers and then release cool ground water back into local streams provide substantial benefits for (fish) habitat.	Obligation C-2(a), from Water Storage Issue. Page 4-54, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln			The amount of water stored and released later in the year will depend upon the type and scale of the specific projects implemented across WRIA 43	Unknown	Unknown	0-5 yrs	High	Obligate Ecology, WDFW, other appropriate state agencies, WRIA 43 WIT, and Lincoln, Adams, and Grant Counties to adopt as a primary guiding principle to promote and develop storage projects that will recharge the shallow aquifers wherever possible to replenish cool groundwater to the streams that will benefit the aquatic habitat, and discourage surface water reservoirs that may introduce warm water which may harm the fisheries.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation. Water storage projects that infiltrate runoff water into shallow aquifers and then release cool ground water back into local streams provide substantial benefits for (fish) habitat.	Obligation C-2(c), from Water Storage Issue. Page 4-55, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>

Table C-1. Lincoln County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range							
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	Obligate Ecology, the WRIA 43 WIT, Lincoln, Grant and Adams Counties to develop a strategy to participate in ESHB 2860 and develop a MOU amongst local governments for participation in the process.	Storage of excess runoff water from Crab Creek and its tributaries, or from the Columbia River, for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Obligation D-1(a), from Water Storage Issue. Page 4-55, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln					High	Obligate Ecology to develop a strategy as outlined in ESHB 2860 (Section 7) to assess, plan and develop new storage, improve or alter operations of existing storage facilities, implement conservation projects, or any other actions designed to provide access to new water supplies that will assist in mitigating the deep well irrigation impacts in the Odessa Subarea located within WRIA 43.	Storage of excess runoff water from Crab Creek and its tributaries, or from the Columbia River, for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation. Recharging depleted aquifers or relieving the groundwater pumping pressure within the Odessa Subarea by providing surface water from Columbia River for irrigation may allow for the restoration of some surface water flow in Crab Creek and its tributaries that has been lost over the last 40 or so years.	Obligation D-1(c), from Water Storage Issue. Page 4-55, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	Obligate Ecology to promote the efforts and policies for the mitigation of the Odessa Subarea projects and "harmonize" such agreements with the WRIA 43 Watershed Plan in accordance with the guidance set forth in ESHB 2860 Section 4, and participate as outlined in subsection 2(c) and subsection 4(a) of Section 4, as relative to WRIA 43	Storage of excess runoff water from Crab Creek and its tributaries, or from the Columbia River, for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation. Recharging depleted aquifers or relieving the groundwater pumping pressure within the Odessa Subarea by providing surface water from Columbia River for irrigation may allow for the restoration of some surface water flow in Crab Creek and its tributaries that has been lost over the last 40 or so years.	Obligation D-2(b), from Water Storage Issue. Page 4-55, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	Obligate Lincoln, Grant and Adams Counties to actively participate under agreements with Ecology to assist with the evaluation and development of storage projects to deliver surface water to the Odessa Subarea as outlined in ESHB 2860 Section 7, subsection 2.	Storage of excess runoff water from Crab Creek and its tributaries, or from the Columbia River, for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation. Recharging depleted aquifers or relieving the groundwater pumping pressure within the Odessa Subarea by providing surface water from Columbia River for irrigation may allow for the restoration of some surface water flow in Crab Creek and its tributaries that has been lost over the last 40 or so years.	Obligation D-3(a), from Water Storage Issue. Page 4-55, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln					High	Recommend that a Water Storage Management Plan be developed by the WIT to outline prioritized storage studies based on the needs to meet the goals and objectives of the Watershed Plan and recommend mitigation measures, such as construction of small scale (<10 acre-feet) water storage impoundments, restoring meanders, stream restoration, and/or riparian corridor restoration.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Recommendation A-1(a), from Water Storage Issue. Page 4-56, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln					High	Recommend that a further evaluation of water storage options as identified in the Phase 2 Technical Assessment be completed and prioritize which subbasins have available excess runoff and are favorable to small scale (<10 acre feet) storage projects and/or instream restoration projects.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Recommendation A-1(b), from Water Storage Issue. Page 4-56, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>
Lincoln County Conservation District	Other	On-farm Conservation	43	Lincoln				Crab Creek	43	Lincoln					High	Recommend that the WRIA 43 WIT, Lincoln County, LCCD, and Ecology promote and develop a strategy to capture "excess" runoff water during times of runoff in late winter, spring and rare summer storm events and infiltrate captured runoff water to the shallow aquifers to be subsequently released back to streams during summer and fall months to achieve a goal of effectively flattening the hydrograph of stream flow throughout the year. Program to be developed for the construction of small storage facilities that do not require water rights or permits.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Recommendation A-1(e), from Water Storage Issue. Page 4-56, Draft Watershed Plan for WRIA 43	The Watershed Implementation Team (WIT) is the current projected name for the group that will succeed the Planning Unit for Phase IV Watershed Planning in WRIA 43. The WIT will consist of local residents and landowners in WRIA 43 that have been part of the Planning Unit along with the initiating governments and representative from the state agencies. Implementation of this potential project will depend on available funding and staff. The Draft Watershed Plan for WRIA 43, Upper Crab Creek/Wilson Creek Watershed, is currently available on the WRIA 43 website at: <a href="http://mapdata.info/wria43/index.html">http://mapdata.info/wria43/index.html</a>



Table C-1. Lincoln County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source				Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range							
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	The WRIA 43 Planning Unit requests that the EIS project work more closely with local entities such as Lincoln, Grant, and Adams County agencies and local Conservation Districts. These local agencies and Districts have available GIS and natural resource data that can be utilized in the evaluation of storage alternatives. Lincoln County also has data and information which has been compiled during our Watershed Planning process.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 2, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	The WRIA 43 Planning Unit request that the feasibility of transporting a portion of the stored water from the proposed Hawk Creek storage facility to the headwaters of Crab Creek be conducted. Specifically, we would request that <u>if</u> the Hawk Creek impoundment is a final alternative, that a portion of the stored water be evaluated to be directly discharged to the surface waters of Crab Creek at it's headwaters and/or be evaluated for ASR capacity into the unconfined and/or basalt aquifers within WRIA 43 to potentially mitigate surface and subsurface flows in the Crab Creek drainage which is a natural recharge area to the Potholes Reservoir and the Odessa subarea. Potential feasible conveyance and discharge alternatives may include transporting a portion of the stored water to the headwaters of Lake Creek and/or Bluestem Creek near Davenport, Washington. Water could be discharged to the surface water bodies to enhance instream flows in Crab Creek and/or into the shallow unconfined aquifer and/or Columbia River Basalt (CRB) aquifers which have been interpreted to contribute	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 4, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	The WRIA 43 Planning Unit requests that the feasibility of storing water in the headwaters of Sinking Creek, both via direct discharge to the surface waters of Sinking Creek and/or through ASR options into the unconfined shallow aquifers and/or basalt aquifers be evaluated. Water can be derived from existing sources such as the Columbia River. Water stored in the Sinking Creek drainage can be utilized to mitigate decreased steam flows to Sinking Creek, a tributary to Crab Creek, which is a natural recharge area to the Potholes Reservoir and the Odessa subarea.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 5, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	The WRIA 43 Planning Unit requests that other alternatives outside of the surface water reservoirs be proposed. Specifically, the evaluation of aquifer storage and recovery (ASR) into the shallow unconfined aquifer or the basalt aquifers. The current scoping document does not address any potential ASR opportunities which may assist in mitigating multiple issues, such as decreased stream flows to tributaries of the Columbia River (specifically Crab Creek), natural recharge through surface and shallow groundwater to the Potholes Reservoir, and recharge to CRB water users in the Odessa subarea through ASR programs within WRIA 43. The WRIA 43 Planning Unit strongly recommends that Ecology and the BOR evaluate potential ASR projects in WRIA 43 which may mitigate multiple issues throughout Lincoln, Grant and Adams Counties. Properly designed ASR projects in suitable areas, such as the CRB aquifers in WRIA 43 which recharge the Odessa Subarea Aquifer, could store water without displacing people and/or habitat as would result in the construction of surface water reservoirs. In addition, utilizing ASR projects could create	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 6, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	The WRIA 43 Planning Unit requests that if Ecology and/or the BOR evaluates water storage alternatives that are within or transport water from out of the boundaries of WRIA 43 for ASR or other storage projects, an evaluation of the hydrostratigraphy of the Crab Creek basin needs to be completed.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 7, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln					High	The representatives at the open houses suggested that the most feasible (surface storage) alternatives would require storage of approximately one million acre-feet of water. The WRIA 43 Planning Unit requests that Ecology still consider the opportunity of constructing smaller scale projects along the mainstem Columbia River and/or its tributaries.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 8, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.

Table C-1. Lincoln County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source						Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	Additional Information
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range									
Lincoln County Conservation District	Other	Other	43	Lincoln				Crab Creek	43	Lincoln			The amount of water stored and released later in the year will depend upon the type and scale of the specific projects implemented across WRIA 43	Unknown	Unknown	0-5 yrs	High	The WRIA 43 Planning Unit requests that the BOR and Ecology work with the WRIA 43 Planning Unit and Lincoln County to develop an understanding of how the WRIA 43 alternative solutions put forth in our draft Watershed Plan can assist with the goals and objectives to mitigate declining water to the Odessa subarea. In addition, we would request that Ecology and the BOR work with the WRIA 43 Planning Unit to assist in the evaluation of storage projects in the Upper Crab Creek drainage which may store excess flows of Crab Creek during winter months and infiltrate via ponds and/or trenches to increase baseflow to Crab Creek and the shallow aquifer which is a natural recharge to the Potholes Reservoir.	Storage of excess runoff water from Crab Creek and its tributaries for release later in the year is one way to increase the amount of water available for use in summer and early fall when it is most needed. Water storage is one way to add to the amount of water made available by water conservation.	Comment # 10, WRIA 43 Comments on Columbia River Management Program EIS to Derek Sandison, Ecology, June 2, 2006	The Steering Committee for the WRIA 43 Planning Unit provided comments on water storage to be included in the EIS Scoping for the Columbia River Water Management Program as part of ESSHB 2860. The Planning Unit is extremely interested in the ESSHB 2860 process, as the northeastern extent of the Odessa Subarea is located within the boundaries of WRIA 43.
Lincoln County Conservation District	Other	Other	43	Lincoln				Lake Creek	43	Lincoln			The amount of water stored and released later in the year will depend upon the type and scale of the specific projects implemented in the Lake Creek sub-watershed	Unknown	Unknown	0-5 yrs	High	The Lincoln County Conservation District completed the Lake Creek Watershed Water Reuse Feasibility Study Report in January 2000 in fulfillment of Centennial Clean Water Grant # G9800056 administered through the Department of Ecology. The report evaluated the potential for using treated waste water from the City of Spokane, moving the water to the headwaters of Lake Creek in the Highway 2 area between Creston and Davenport, and rehydrating numerous dry lakes and sections of Lake Creek all the way down the Lake Creek drainage to its confluence with Crab Creek west of Odessa. The report also gathered baseline water quality all along the Lake Creek drainage. This potential project has never been implemented. One major reason for this includes the high cost that would be incurred to move the water to Lake Creek. Another reason is that treated waste water from the City of Spokane constitutes a major portion of the stream flow in the lower Spokane River in summer, and diverting this water to Lake Creek would significantly and adversely affect water quantity and quality in this stretch of the Spokane River.	The benefits that were listed for diverting treated waste water from the City of Spokane to the headwaters of Lake Creek included: The reduction of nutrient rich water to the lower Spokane River and Lake Roosevelt; the rehydration of dry lakes and dry sections of the creek in the Lake Creek drainage; reestablish riparian habitat for migrating waterfowl, upland game, and other wildlife; reestablish tourism and recreation, including hunting, fishing, boating, and swimming; and enhance economic development. The major lakes in the Lake Creek drainage, moving upstream to downstream, that could benefit from increased water include: Z-Lake, Wall Lake, Upper Twin Lake, Lower Twin Lake, Coffeepot Lake, Deer Lake, Browns Lake, Tavares Lake, Neves Lake, Wvederspahn Lake, Pacific Lake, and Bobs Lakes. During drought years, the lakes below Deer Lake can and do dry up and remain dry until the next high runoff year(s).	Lake Creek Watershed Water Reuse Feasibility Study Report, January 2000, Lincoln County Conservation District	Some concerns listed for the Lake Creek project included: The adverse affects of the high phosphorous and high nitrate content of the treated waste water on the Lake Creek drainage, if no further treatment was done; constructed wetlands or agricultural crops should be used to treat the waste water before it entered Lake Creek; the current channel of Lake Creek is not big enough to handle significantly higher flows throughout the year and bridges and culverts would also have to be enlarged; the treated waste water that infiltrates into local aquifers may have an adverse impact on domestic wells; the influx of additional water will have a significant affect on water temperature and may change the fisheries in some of the lakes from warm water species to cold water species - Is this what the local citizens want? Changing from an intermittent creek system to a perennial flow system with the increased flow will have both positive and possible negative effects on the environment and on the local residents.

Table C-1. Asotin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section							
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	45E	24	Private Landowner	Asotin Creek	35	Asotin	10N	45E	24				0-5 yrs	Low	Difficult to determine water savings. Requires another site visit.	
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	45E	24	Private Landowner	Asotin Creek	35	Asotin	10N	45E	24	6.6	9,000	2007	0-5 yrs	High	3 acres, pasture, additional pipe to solid set system, install low flow nozzles	Improvement in water quantity
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	45E	36	Private Landowner	George Creek	35	Asotin	10N	45E	36	6.6	9,000	2007	0-5 yrs	High	3 acres, pasture, additional pipe to solid set system, install low flow nozzles, timer	Improvement in water quantity
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	45E	23	Private Landowner	Asotin Creek	35	Asotin	10N	45E	23	25	83,000	2007	0-5 yrs	High	25 acres, pasture, additional pipe to solid set, install low flow nozzles, timer	Improvement in water quantity
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	46E	35	Private Landowner	Snake River	35	Asotin	10N	46E	35	16	33,400	2007	0-5 yrs	High	17 acres, grass hay, traveling boom, install low flow nozzles	Improvement in water quantity
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	46E	20	Private Landowner	Asotin Creek	35	Asotin	10N	46E	20	6.6	9,000	2007	0-5 yrs	High	3 acres pasture, additional pipe to solid set, install low flow nozzles, timer	Improvement in water quantity
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	46E	19	Private Landowner	Asotin Creek	35	Asotin	10N	46E	19	9	19,000	2007	0-5 yrs	High	12 acres pasture, additional pipe to solid set, install two valves, new pump at second diversion site	Improvement in water quantity
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin	10N	45E	24	Private Landowner	Asotin Creek	35	Asotin	10N	46E	24	5.6	9,000	2007	0-5 yrs	High	3 acres pasture, additional pipe to solid set, install low flow nozzles, timer	Improvement in water quantity
Asotin County CD	Property Owner		35	Asotin				Private Landowner	Asotin Creek												
Asotin County CD	Property Owner	On-farm Conservation	35	Asotin				Private Landowner	Snake River	35	Asotin										

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 32,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 7,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.35	\$ 39,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.12	\$ 33,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 28,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.68	\$ 44,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 18,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 4,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 7,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 24,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 11,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.44	\$ 77,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.1	\$ 61,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 34,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.76	\$ 45,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.33	\$ 54,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 23,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.43	\$ 40,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 29,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.27	\$ 37,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 9,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 28,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 15,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 13,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 7,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.6	\$ 67,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.46	\$ 24,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 22,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 3,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	71.28	\$ 99,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 33,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 26,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 39,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.95	\$ 31,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.96	\$ 43,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.29	\$ 47,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.01	\$ 48,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 23,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.24	\$ 67,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.64	\$ 37,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.44	\$ 52,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 35,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 24,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.75	\$ 34,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.04	\$ 57,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	100.8	\$ 140,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 21,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.56	\$ 48,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 8,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.57	\$ 46,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.22	\$ 57,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 29,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 23,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.89	\$ 52,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 36,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.84	\$ 47,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.61	\$ 41,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.9	\$ 38,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 45,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.44	\$ 39,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 19,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.03	\$ 58,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.37	\$ 74,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 28,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 17,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.06	\$ 41,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 35,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.17	\$ 39,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.43	\$ 65,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.11	\$ 47,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.8	\$ 27,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 16,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.24	\$ 54,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 40,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.68	\$ 69,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 25,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 27,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.98	\$ 27,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 25,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.71	\$ 39,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.2	\$ 47,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 44,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.33	\$ 92,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.19	\$ 48,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.69	\$ 55,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 9,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.9	\$ 63,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 11,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.87	\$ 55,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 35,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 18,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.9	\$ 38,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.12	\$ 33,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.98	\$ 40,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.64	\$ 37,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.96	\$ 30,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 33,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 13,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.7	\$ 53,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.48	\$ 34,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 7,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.53	\$ 52,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.33	\$ 67,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.52	\$ 66,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 32,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 16,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 17,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 39,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 26,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.47	\$ 47,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.41	\$ 43,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 22,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 34,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.84	\$ 34,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 28,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.17	\$ 76,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 22,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.06	\$ 41,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.07	\$ 27,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.02	\$ 34,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.03	\$ 83,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.15	\$ 41,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.37	\$ 61,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.9	\$ 38,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 2,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 9,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 28,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.49	\$ 45,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 22,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 16,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.49	\$ 45,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.62	\$ 52,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.09	\$ 62,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.18	\$ 50,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.3	\$ 58,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 32,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.54	\$ 50,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 7,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.68	\$ 69,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.4	\$ 70,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 24,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.8	\$ 77,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.36	\$ 38,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.74	\$ 73,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.45	\$ 50,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.35	\$ 51,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.17	\$ 51,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.61	\$ 53,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.73	\$ 49,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 26,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.16	\$ 28,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 36,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 27,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 6,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.55	\$ 49,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.22	\$ 44,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.05	\$ 43,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.36	\$ 50,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.56	\$ 73,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.21	\$ 46,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.18	\$ 50,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 19,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.9	\$ 51,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45	\$ 62,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.32	\$ 56,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 10,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.31	\$ 7,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 14,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 20,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.65	\$ 60,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 29,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 11,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.03	\$ 45,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.5	\$ 43,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 17,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 16,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 4,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 8,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.9	\$ 51,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.75	\$ 34,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.38	\$ 47,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 20,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 14,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.43	\$ 40,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.99	\$ 38,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.51	\$ 67,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.12	\$ 21,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.34	\$ 65,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.34	\$ 53,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.58	\$ 57,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 11,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.64	\$ 49,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.93	\$ 47,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.54	\$ 63,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 11,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.07	\$ 77,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 12,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 40,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.99	\$ 51,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 10,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	92.7	\$ 128,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 19,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 1,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 12,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 34,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.78	\$ 55,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 26,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.38	\$ 35,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 2,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 9,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 13,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 9,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 3,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 3,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 39,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.61	\$ 66,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.76	\$ 58,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 5,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.26	\$ 76,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 4,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 7,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.47	\$ 72,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 17,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 42,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.96	\$ 30,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.77	\$ 44,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.01	\$ 48,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.37	\$ 36,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.44	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.5	\$ 56,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.06	\$ 41,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.61	\$ 41,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.99	\$ 38,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 36,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.56	\$ 48,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	71.01	\$ 98,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.82	\$ 49,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.93	\$ 47,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 42,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	59.22	\$ 82,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 5,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.81	\$ 38,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 28,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 19,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.72	\$ 51,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 11,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.84	\$ 34,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.2	\$ 35,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 28,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.59	\$ 56,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 15,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.46	\$ 24,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 32,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.09	\$ 37,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	69.21	\$ 96,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.7	\$ 78,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 33,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.94	\$ 58,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 40,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 14,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 11,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 14,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.61	\$ 41,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 12,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 19,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 17,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.02	\$ 59,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.25	\$ 40,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 10,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.88	\$ 66,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.13	\$ 57,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 36,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.77	\$ 44,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.93	\$ 47,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 23,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 4,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 36,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 20,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.99	\$ 76,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 17,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 24,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.45	\$ 63,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 36,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 4,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 14,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.75	\$ 46,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.66	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.01	\$ 73,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.48	\$ 84,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	80.19	\$ 111,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 15,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 7,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.37	\$ 36,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	97.56	\$ 135,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.75	\$ 84,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.2	\$ 72,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.08	\$ 51,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.18	\$ 87,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.03	\$ 33,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.68	\$ 69,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 36,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 20,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.89	\$ 40,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.9	\$ 26,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 3,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 7,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 9,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 21,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.02	\$ 34,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 24,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.64	\$ 37,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 28,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 11,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.72	\$ 51,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.71	\$ 39,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	74.88	\$ 104,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	131.4	\$ 182,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 5,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 7,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.99	\$ 51,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.59	\$ 81,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.36	\$ 75,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 2,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.51	\$ 67,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.98	\$ 27,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 7,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.28	\$ 61,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 16,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.57	\$ 59,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.99	\$ 38,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 11,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.78	\$ 42,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 37,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	59.04	\$ 82,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.42	\$ 67,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 14,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 9,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.21	\$ 46,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 9,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.78	\$ 67,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 2,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.22	\$ 44,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 32,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.67	\$ 57,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	79.2	\$ 110,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.54	\$ 38,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.15	\$ 41,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.46	\$ 24,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.99	\$ 88,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 36,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 15,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 2,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 21,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.19	\$ 48,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.28	\$ 49,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.66	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.66	\$ 34,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.65	\$ 48,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.22	\$ 57,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 12,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.12	\$ 21,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.69	\$ 42,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.78	\$ 42,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	69.12	\$ 96,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.93	\$ 84,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.94	\$ 58,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.83	\$ 60,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 44,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.04	\$ 44,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.41	\$ 68,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.33	\$ 92,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.1	\$ 61,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 15,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.5	\$ 56,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.16	\$ 28,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.83	\$ 60,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.98	\$ 27,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 22,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.23	\$ 80,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.41	\$ 68,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.41	\$ 43,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.67	\$ 45,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 46,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.04	\$ 94,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.04	\$ 57,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.16	\$ 28,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.15	\$ 41,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.27	\$ 87,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.76	\$ 45,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.07	\$ 27,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.35	\$ 51,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.06	\$ 41,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.82	\$ 49,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 19,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.32	\$ 43,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.05	\$ 43,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.69	\$ 42,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	78.84	\$ 109,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	75.6	\$ 105,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 13,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 3,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 44,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 44,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.53	\$ 89,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.49	\$ 45,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.57	\$ 46,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.23	\$ 43,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.46	\$ 49,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 22,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 20,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 22,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.66	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 17,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.02	\$ 47,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.13	\$ 94,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 13,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 24,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 7,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 15,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.48	\$ 46,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.11	\$ 47,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.4	\$ 45,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.05	\$ 43,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	78.12	\$ 108,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.97	\$ 66,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	67.23	\$ 93,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.98	\$ 90,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.08	\$ 64,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.38	\$ 60,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 14,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 17,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	67.59	\$ 93,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.72	\$ 76,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.82	\$ 49,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.81	\$ 88,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.2	\$ 35,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 7,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	72	\$ 100,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.44	\$ 89,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.49	\$ 57,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.25	\$ 40,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.33	\$ 54,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 4,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.56	\$ 48,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	61.02	\$ 84,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	69.57	\$ 96,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.72	\$ 38,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.86	\$ 44,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.9	\$ 88,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.61	\$ 41,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.77	\$ 44,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.74	\$ 48,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.44	\$ 39,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.82	\$ 49,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.99	\$ 38,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 13,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.03	\$ 33,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 12,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.44	\$ 52,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 7,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.26	\$ 51,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.21	\$ 46,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.77	\$ 31,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 10,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.96	\$ 68,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.27	\$ 62,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 23,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.96	\$ 30,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.49	\$ 45,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.69	\$ 42,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.8	\$ 27,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 25,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 8,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 11,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 6,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 24,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 4,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 6,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 5,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 2,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 20,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 11,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 20,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 19,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 23,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.82	\$ 37,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.66	\$ 34,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.6	\$ 42,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.72	\$ 38,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 28,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 29,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.05	\$ 18,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 4,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 12,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.73	\$ 37,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.79	\$ 66,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.91	\$ 49,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.12	\$ 21,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.52	\$ 41,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.13	\$ 69,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.68	\$ 56,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.68	\$ 69,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 27,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.8	\$ 90,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.85	\$ 58,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.48	\$ 34,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.9	\$ 63,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 18,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.56	\$ 35,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.61	\$ 53,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.26	\$ 76,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.03	\$ 58,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.12	\$ 58,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.94	\$ 70,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.99	\$ 63,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.61	\$ 53,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.36	\$ 75,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.05	\$ 55,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 7,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 46,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.97	\$ 54,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 4,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 20,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.12	\$ 33,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.74	\$ 35,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.04	\$ 69,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 11,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 20,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 18,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.95	\$ 31,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 36,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 40,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 9,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	76.05	\$ 105,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.34	\$ 53,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.97	\$ 16,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 7,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.18	\$ 37,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 6,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 5,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 6,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.54	\$ 75,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	128.07	\$ 177,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.29	\$ 35,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 14,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.12	\$ 46,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.49	\$ 45,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.03	\$ 33,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.02	\$ 34,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.52	\$ 66,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	51.21	\$ 71,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 8,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 39,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 10,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 40,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	61.47	\$ 85,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 14,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 3,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.11	\$ 34,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 29,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.62	\$ 52,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	80.55	\$ 111,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.86	\$ 19,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.73	\$ 37,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.54	\$ 38,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.06	\$ 54,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.93	\$ 34,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 27,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.88	\$ 54,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.96	\$ 43,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.26	\$ 39,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.44	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 17,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.16	\$ 65,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.22	\$ 69,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.78	\$ 42,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.68	\$ 44,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 36,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.11	\$ 59,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.89	\$ 40,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 17,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.32	\$ 68,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 34,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 6,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 19,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 14,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 5,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	85.41	\$ 118,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 28,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 13,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 15,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.69	\$ 42,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.58	\$ 45,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.87	\$ 42,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 7,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.29	\$ 35,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 40,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 28,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 37,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.64	\$ 37,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.9	\$ 26,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 42,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 35,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 5,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.91	\$ 49,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.82	\$ 62,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 29,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 36,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	132.03	\$ 183,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 36,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.75	\$ 34,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 24,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.16	\$ 28,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 2,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 3,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 24,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 2,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 2,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 2,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 17,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 5,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.31	\$ 7,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 12,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 6,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 34,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 3,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 4,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.51	\$ 29,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.53	\$ 64,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.86	\$ 19,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 12,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 3,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 8,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 5,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 34,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.9	\$ 38,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.97	\$ 54,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.88	\$ 54,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	77.85	\$ 108,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.08	\$ 64,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.56	\$ 48,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.08	\$ 51,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.81	\$ 38,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 40,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 42,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.14	\$ 43,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.87	\$ 55,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.92	\$ 48,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.23	\$ 43,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.46	\$ 49,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.82	\$ 37,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 6,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 19,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.99	\$ 63,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.98	\$ 65,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	57.6	\$ 80,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.52	\$ 41,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 26,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.37	\$ 36,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.51	\$ 92,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.63	\$ 25,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.57	\$ 46,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	23E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 3,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 4,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 8,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.93	\$ 59,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 5,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.03	\$ 58,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.83	\$ 60,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.04	\$ 57,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.02	\$ 59,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.38	\$ 60,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.37	\$ 61,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.29	\$ 60,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.84	\$ 59,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.47	\$ 60,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.77	\$ 31,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 24,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.36	\$ 38,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 5,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.03	\$ 45,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.03	\$ 33,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.52	\$ 41,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.44	\$ 64,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 17,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 13,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 13,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.29	\$ 35,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 33,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 27,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.87	\$ 55,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 26,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.88	\$ 66,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 13,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 5,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.44	\$ 39,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 20,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 28,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.89	\$ 65,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.56	\$ 73,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.37	\$ 49,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 21,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.11	\$ 34,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 2,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.31	\$ 7,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.68	\$ 31,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 7,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.57	\$ 46,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.93	\$ 59,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.22	\$ 44,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 45,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.52	\$ 41,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 5,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.81	\$ 51,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.7	\$ 53,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.59	\$ 56,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.59	\$ 56,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 15,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.09	\$ 75,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 2,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.63	\$ 25,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.22	\$ 44,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.59	\$ 43,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.41	\$ 43,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.46	\$ 49,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 22,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 26,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 16,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 39,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 37,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 4,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 8,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 1,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 8,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 1,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 7,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 23,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.63	\$ 50,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 6,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.51	\$ 67,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.95	\$ 31,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	65.34	\$ 90,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 26,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.94	\$ 95,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.76	\$ 95,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 36,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.08	\$ 39,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 15,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 17,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 20,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.26	\$ 51,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.05	\$ 18,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.07	\$ 27,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 22,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 24,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 11,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 24,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 20,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.9	\$ 51,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.86	\$ 56,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.2	\$ 35,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	61.29	\$ 85,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.49	\$ 57,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.98	\$ 27,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.72	\$ 88,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.71	\$ 39,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 22,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 29,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.96	\$ 43,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.3	\$ 46,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.68	\$ 44,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 14,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 8,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.9	\$ 26,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 9,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.7	\$ 41,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.64	\$ 37,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.48	\$ 59,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.95	\$ 31,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.36	\$ 50,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.84	\$ 34,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 19,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	129.42	\$ 179,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.45	\$ 38,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 5,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.08	\$ 64,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 22,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.55	\$ 36,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 36,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.97	\$ 66,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 22,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.32	\$ 56,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.11	\$ 9,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 1,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	99.36	\$ 138,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	59.31	\$ 82,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	51.21	\$ 71,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.79	\$ 66,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 40,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.98	\$ 52,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.71	\$ 77,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.25	\$ 53,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.84	\$ 59,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.21	\$ 46,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.96	\$ 30,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 22,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.81	\$ 51,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.67	\$ 45,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.15	\$ 41,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.47	\$ 47,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.63	\$ 25,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 3,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 8,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.98	\$ 27,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 22,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 22,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 24,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.14	\$ 43,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.59	\$ 43,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.05	\$ 43,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.96	\$ 43,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 3,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 2,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.66	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.09	\$ 75,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.31	\$ 7,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 10,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.1	\$ 48,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 2,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 21,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	69.75	\$ 96,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	108.09	\$ 150,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.79	\$ 53,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.7	\$ 53,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.67	\$ 45,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.84	\$ 59,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 32,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.9	\$ 76,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 18,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.2	\$ 35,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.84	\$ 34,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.48	\$ 46,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.65	\$ 48,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.97	\$ 16,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 20,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 22,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.2	\$ 60,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.01	\$ 61,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.92	\$ 61,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.81	\$ 63,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.58	\$ 57,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.22	\$ 44,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.97	\$ 79,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.46	\$ 61,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 9,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.02	\$ 72,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.04	\$ 57,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.05	\$ 80,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.73	\$ 49,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 4,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 24,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 28,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 5,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.01	\$ 48,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 11,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 2,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 3,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.64	\$ 49,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.52	\$ 78,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 23,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.26	\$ 51,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 7,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.35	\$ 39,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 21,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.27	\$ 37,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	77.67	\$ 107,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	74.97	\$ 104,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	80.19	\$ 111,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.17	\$ 89,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	82.62	\$ 114,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	61.38	\$ 85,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.77	\$ 69,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.88	\$ 66,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.73	\$ 37,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	72.18	\$ 100,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.08	\$ 39,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.56	\$ 35,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.28	\$ 74,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.35	\$ 39,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.62	\$ 39,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 3,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.74	\$ 73,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 36,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 32,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.26	\$ 51,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.85	\$ 45,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 36,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.47	\$ 47,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.89	\$ 77,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 37,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.37	\$ 36,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.32	\$ 31,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 40,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.93	\$ 34,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.9	\$ 38,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 29,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.9	\$ 63,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 22,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.98	\$ 40,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	73.17	\$ 101,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 17,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	89.73	\$ 124,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.75	\$ 59,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.68	\$ 19,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.23	\$ 43,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.96	\$ 30,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.54	\$ 50,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.86	\$ 56,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 24,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 13,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.46	\$ 49,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.71	\$ 52,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.25	\$ 40,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 35,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.16	\$ 28,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.27	\$ 50,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 22,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 17,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 33,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 15,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 10,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.56	\$ 35,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.52	\$ 41,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.5	\$ 81,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.29	\$ 72,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.81	\$ 63,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.34	\$ 65,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.82	\$ 62,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.33	\$ 92,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 7,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 17,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.24	\$ 54,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.37	\$ 49,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.05	\$ 43,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.73	\$ 49,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.27	\$ 50,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 5,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	126.45	\$ 175,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	126.99	\$ 176,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	72.18	\$ 100,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.97	\$ 16,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.92	\$ 48,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 11,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 14,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.54	\$ 75,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27	\$ 37,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 14,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 32,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 35,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 25,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	62.91	\$ 87,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.37	\$ 36,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.55	\$ 74,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.19	\$ 48,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 46,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.02	\$ 47,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.33	\$ 92,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.39	\$ 46,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	62.73	\$ 87,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 24,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.2	\$ 60,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	122.04	\$ 169,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.64	\$ 12,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 26,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.3	\$ 46,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	76.59	\$ 106,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.77	\$ 56,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.7	\$ 41,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 28,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 14,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.73	\$ 74,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.99	\$ 38,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.81	\$ 76,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	57.33	\$ 79,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	75.78	\$ 105,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.07	\$ 52,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.03	\$ 45,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.98	\$ 40,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.81	\$ 38,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.04	\$ 44,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.1	\$ 48,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 4,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 9,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.44	\$ 77,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 6,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 6,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.54	\$ 75,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 21,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.69	\$ 42,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 22,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 22,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.48	\$ 46,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 26,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 24,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 29,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 17,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 22,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 22,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 20,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.68	\$ 19,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 46,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 32,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.94	\$ 33,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.54	\$ 50,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 22,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 24,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 11,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 24,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.85	\$ 45,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 19,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 6,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 26,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.12	\$ 33,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.07	\$ 27,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 42,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.22	\$ 69,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45	\$ 62,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 15,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.83	\$ 35,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.36	\$ 63,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.26	\$ 76,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 19,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.89	\$ 52,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 28,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 22,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.12	\$ 21,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.05	\$ 68,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.69	\$ 55,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.84	\$ 59,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	67.05	\$ 93,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.66	\$ 59,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 24,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 25,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.81	\$ 51,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.76	\$ 58,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.97	\$ 41,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.64	\$ 49,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.47	\$ 47,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.2	\$ 35,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 11,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.89	\$ 15,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 10,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 10,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.04	\$ 57,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.64	\$ 12,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 5,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.7	\$ 41,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.89	\$ 52,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 36,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.79	\$ 78,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.92	\$ 48,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	57.33	\$ 79,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.25	\$ 40,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.76	\$ 70,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.74	\$ 60,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 46,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 10,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 13,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 11,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.23	\$ 43,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	79.65	\$ 110,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.62	\$ 77,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 36,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.61	\$ 53,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.78	\$ 55,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 40,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.17	\$ 76,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.87	\$ 67,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.32	\$ 56,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.19	\$ 48,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.44	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	62.64	\$ 87,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 9,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 8,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 40,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 8,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 6,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.31	\$ 7,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.37	\$ 74,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 12,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.84	\$ 59,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 9,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	69.03	\$ 95,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.5	\$ 43,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.42	\$ 67,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.63	\$ 38,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.68	\$ 31,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.83	\$ 48,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.58	\$ 45,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 11,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.92	\$ 48,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.04	\$ 94,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 9,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 10,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.29	\$ 47,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.04	\$ 44,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.49	\$ 45,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 42,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.2	\$ 47,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.26	\$ 76,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 13,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 9,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 20,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 20,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 18,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 25,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.09	\$ 37,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	88.47	\$ 122,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.07	\$ 77,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	65.34	\$ 90,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.09	\$ 75,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	72.9	\$ 101,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.22	\$ 94,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.57	\$ 84,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	109.62	\$ 152,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	83.43	\$ 115,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	84.96	\$ 118,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	73.35	\$ 101,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.83	\$ 35,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.78	\$ 92,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.96	\$ 43,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.02	\$ 47,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.77	\$ 31,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.09	\$ 37,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 14,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 36,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.26	\$ 39,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	97.29	\$ 135,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	79.02	\$ 109,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 22,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 21,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 22,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.92	\$ 61,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	142.92	\$ 198,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.09	\$ 37,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.11	\$ 34,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.51	\$ 54,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 28,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.98	\$ 52,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.87	\$ 55,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 32,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	73.08	\$ 101,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	91.26	\$ 126,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.73	\$ 49,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.97	\$ 54,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.68	\$ 81,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.57	\$ 46,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.82	\$ 37,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 24,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 28,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.36	\$ 50,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 3,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.83	\$ 73,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.45	\$ 75,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.24	\$ 54,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 30,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 13,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.53	\$ 52,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.58	\$ 45,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.46	\$ 49,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 25,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 17,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.75	\$ 84,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.45	\$ 50,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 8,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.36	\$ 38,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 28,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.69	\$ 42,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 4,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 28,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.66	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	61.29	\$ 85,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.74	\$ 35,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	61.2	\$ 85,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	82.26	\$ 114,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.83	\$ 60,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 28,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.93	\$ 34,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.08	\$ 51,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.09	\$ 37,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 24,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 23,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.46	\$ 24,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 8,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.21	\$ 46,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.45	\$ 50,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 4,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 9,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.22	\$ 57,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.56	\$ 35,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	105.75	\$ 146,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.06	\$ 41,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.35	\$ 51,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.55	\$ 36,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 10,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.41	\$ 43,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.07	\$ 40,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 7,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.84	\$ 34,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 7,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 6,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.91	\$ 74,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.78	\$ 67,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.53	\$ 64,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 2,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 2,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 7,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 3,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 1,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 2,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 20,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.94	\$ 58,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.19	\$ 48,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.7	\$ 41,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 23,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.13	\$ 57,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.98	\$ 40,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	62.82	\$ 87,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 29,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 4,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.11	\$ 34,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.87	\$ 30,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 28,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36	\$ 50,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	51.3	\$ 71,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 26,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.36	\$ 50,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.58	\$ 45,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.5	\$ 43,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.63	\$ 25,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.64	\$ 49,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 14,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 17,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 27,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.89	\$ 15,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 31,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.17	\$ 39,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.66	\$ 34,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 33,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.05	\$ 80,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 16,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 5,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 36,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.55	\$ 36,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 17,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 20,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.74	\$ 48,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 5,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.55	\$ 61,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.65	\$ 48,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.17	\$ 51,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	51.48	\$ 71,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 33,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 10,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 20,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 11,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 9,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 26,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.89	\$ 15,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.38	\$ 35,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.17	\$ 51,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.56	\$ 35,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 4,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.17	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 19,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 15,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.5	\$ 43,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 20,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.17	\$ 14,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	63.09	\$ 87,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 24,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	121.5	\$ 168,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 3,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.22	\$ 57,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.15	\$ 54,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.27	\$ 37,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 4,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 15,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 3,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 16,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 36,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 10,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 2,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 6,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 32,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 31,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 22,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 4,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 18,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 36,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 32,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 6,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.57	\$ 46,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.89	\$ 40,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 15,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.26	\$ 64,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 17,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.16	\$ 53,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.18	\$ 37,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 39,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 12,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 3,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 23,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 5,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.29	\$ 47,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.42	\$ 42,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	71.91	\$ 99,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 10,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 12,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 23,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 21,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 3,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 18,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.74	\$ 35,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 25,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 8,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.11	\$ 9,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 5,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.26	\$ 64,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 7,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 12,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 11,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 29,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	66.69	\$ 92,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	95.49	\$ 132,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.12	\$ 83,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 36,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	99	\$ 137,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.36	\$ 63,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 14,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.77	\$ 81,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 30,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 20,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 22,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 21,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 22,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 20,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.93	\$ 47,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.53	\$ 52,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 8,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 37,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	62.91	\$ 87,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.62	\$ 39,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	86.67	\$ 120,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.4	\$ 70,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.37	\$ 74,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 16,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	58.32	\$ 81,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 3,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	79.38	\$ 110,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	89.73	\$ 124,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.08	\$ 51,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 4,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	77.76	\$ 108,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.47	\$ 72,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 36,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 40,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	136.62	\$ 189,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.25	\$ 78,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	101.7	\$ 141,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.01	\$ 61,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.59	\$ 56,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	100.98	\$ 140,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	62.55	\$ 86,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.91	\$ 62,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.11	\$ 47,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 25,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	68.31	\$ 94,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 4,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.68	\$ 44,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.62	\$ 64,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45	\$ 62,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 22,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.97	\$ 54,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.13	\$ 57,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.76	\$ 58,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 16,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 19,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 28,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 4,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.8	\$ 52,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.78	\$ 42,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 17,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.86	\$ 19,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.5	\$ 68,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.7	\$ 66,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 20,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 6,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 30,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 22,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 20,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 32,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 20,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.22	\$ 57,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.26	\$ 76,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.95	\$ 31,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.44	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 11,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 23,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 22,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 23,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.63	\$ 25,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 13,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 13,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 14,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.02	\$ 34,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 37,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.66	\$ 59,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.18	\$ 50,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.62	\$ 27,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.04	\$ 57,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.42	\$ 29,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 23,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 22,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 21,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 33,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 29,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.44	\$ 64,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	129.69	\$ 180,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 5,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.26	\$ 64,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.07	\$ 65,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 2,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.72	\$ 63,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 16,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.68	\$ 56,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.92	\$ 73,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 36,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.45	\$ 50,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.18	\$ 50,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.01	\$ 48,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 23,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.34	\$ 65,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.41	\$ 56,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.95	\$ 69,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 11,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	60.48	\$ 84,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 5,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 16,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 23,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.08	\$ 39,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.77	\$ 31,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.83	\$ 35,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 33,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.07	\$ 40,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.79	\$ 41,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.9	\$ 38,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.88	\$ 41,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 42,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 22,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 23,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.51	\$ 29,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 30,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 31,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 31,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 10,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 7,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 12,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 10,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 11,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.17	\$ 14,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 17,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.63	\$ 875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 11,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45	\$ 62,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.92	\$ 61,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 44,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.68	\$ 44,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 44,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.4	\$ 45,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.78	\$ 55,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 2,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.47	\$ 60,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.72	\$ 63,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.18	\$ 62,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.15	\$ 66,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.56	\$ 60,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 23,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.1	\$ 61,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.98	\$ 52,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.55	\$ 36,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 6,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.42	\$ 54,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.43	\$ 53,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.98	\$ 65,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.37	\$ 36,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.35	\$ 76,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	77.04	\$ 107,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 40,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 32,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.38	\$ 35,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 25,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.06	\$ 54,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 30,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 24,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 29,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.14	\$ 43,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.15	\$ 41,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.44	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 11,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 10,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 1,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.93	\$ 59,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 3,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 8,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.12	\$ 33,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 17,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.22	\$ 32,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 36,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 32,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 26,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 44,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.85	\$ 58,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.13	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 19,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 18,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.12	\$ 21,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.4	\$ 57,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.68	\$ 56,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.36	\$ 50,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.44	\$ 52,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 21,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.27	\$ 37,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36	\$ 50,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.24	\$ 42,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 32,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 8,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 3,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 12,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.11	\$ 9,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.1	\$ 73,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.38	\$ 47,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.7	\$ 28,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	2
																			The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.		
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 40,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 27,000	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.785	\$ 83,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.075	\$ 57,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.995	\$ 11,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.71	\$ 47,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 12,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 12,312	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 43,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 29,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.915	\$ 9,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.515	\$ 39,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.465	\$ 29,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.685	\$ 20,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.405	\$ 972	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.885	\$ 81,324	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 44,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 21,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.405	\$ 22,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 38,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.895	\$ 35,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.67	\$ 78,408	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.905	\$ 11,772	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 22,464	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.715	\$ 13,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.655	\$ 6,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.695	\$ 40,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.485	\$ 68,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 4,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.105	\$ 29,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.105	\$ 50,652	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.795	\$ 37,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.51	\$ 51,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.335	\$ 82,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 48,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.575	\$ 25,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 27,216	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.145	\$ 41,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.625	\$ 56,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.365	\$ 53,676	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.295	\$ 48,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.175	\$ 34,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 39,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 31,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 35,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 18,360	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 12,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 46,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.9	\$ 2,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.255	\$ 36,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 79,056	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.375	\$ 8,100	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.98	\$ 69,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.9	\$ 2,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.21	\$ 58,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.855	\$ 23,652	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 58,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.765	\$ 66,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 30,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.48	\$ 37,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 12,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 44,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.9	\$ 2,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.545	\$ 32,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.845	\$ 26,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 4,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 27,864	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 49,248	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 43,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 13,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.965	\$ 62,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.985	\$ 14,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 15,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.195	\$ 29,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.365	\$ 10,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.905	\$ 11,772	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.865	\$ 42,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 37,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.125	\$ 45,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 40,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.315	\$ 43,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.415	\$ 41,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.45	\$ 1,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 27,864	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 24,192	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.07	\$ 69,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 1,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.375	\$ 8,100	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 50,976	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.255	\$ 79,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 40,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 38,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 33,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.755	\$ 25,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.525	\$ 15,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.585	\$ 44,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.145	\$ 41,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 38,664	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 33,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.605	\$ 39,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.755	\$ 25,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 35,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.975	\$ 38,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 39,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.05	\$ 31,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.875	\$ 40,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.845	\$ 26,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.365	\$ 32,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 17,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.77	\$ 54,648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.325	\$ 41,580	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.405	\$ 44,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 15,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.31	\$ 12,744	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.435	\$ 58,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.325	\$ 41,580	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.68	\$ 76,032	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.94	\$ 57,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 79,056	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.995	\$ 11,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 77,544	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.375	\$ 94,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.58	\$ 99,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.865	\$ 42,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.245	\$ 60,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.605	\$ 39,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.695	\$ 40,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 6,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.27	\$ 648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 1,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.975	\$ 16,740	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.89	\$ 26,136	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.825	\$ 9,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.105	\$ 93,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.275	\$ 118,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.615	\$ 37,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 14,040	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.545	\$ 54,108	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.175	\$ 34,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.835	\$ 50,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.265	\$ 77,436	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.295	\$ 48,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.425	\$ 17,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 29,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.03	\$ 79,272	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 30,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 19,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 23,544	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.845	\$ 26,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.93	\$ 59,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.125	\$ 24,300	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 58,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.585	\$ 1,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 12,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.015	\$ 28,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.655	\$ 6,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 42,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 43,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 39,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.07	\$ 69,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 40,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.145	\$ 19,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 23,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.27	\$ 648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.755	\$ 25,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.495	\$ 22,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 31,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 20,520	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.145	\$ 41,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 15,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 29,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.265	\$ 12,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 16,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.775	\$ 21,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 21,384	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.775	\$ 21,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.405	\$ 22,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 23,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.495	\$ 22,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.115	\$ 26,676	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 23,544	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.465	\$ 29,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 22,464	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 18,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.63	\$ 1,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.3	\$ 101,520	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 23,760	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 25,488	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.64	\$ 20,736	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.11	\$ 17,064	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.425	\$ 39,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 19,656	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 28,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 23,760	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.035	\$ 24,084	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.695	\$ 83,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.565	\$ 49,356	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 11,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.34	\$ 70,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 45,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	56.205	\$ 134,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 14,040	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.755	\$ 112,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.105	\$ 93,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.435	\$ 37,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 11,664	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.245	\$ 17,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.165	\$ 14,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 72,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.085	\$ 33,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 28,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.975	\$ 59,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.17	\$ 24,408	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.125	\$ 24,300	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.525	\$ 37,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.935	\$ 69,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.59	\$ 75,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 23,760	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.165	\$ 36,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.02	\$ 60,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 27,864	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 80,784	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.135	\$ 43,524	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.165	\$ 14,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 12,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.155	\$ 60,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.445	\$ 34,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.61	\$ 71,064	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.765	\$ 23,436	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.685	\$ 85,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.285	\$ 29,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.72	\$ 1,728	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 16,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.08	\$ 153,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.245	\$ 38,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 17,928	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.945	\$ 23,868	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.565	\$ 6,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	23E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	125.19	\$ 300,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 13,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 16,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.755	\$ 90,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 41,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 15,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.515	\$ 18,036	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	25E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 29,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	15N	27E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.44	\$ 89,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 31,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 24,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.415	\$ 63,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.005	\$ 52,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.485	\$ 25,164	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.715	\$ 13,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 11,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 1,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.075	\$ 36,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	59.265	\$ 142,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 40,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.045	\$ 21,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 12,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.23	\$ 53,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 30,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.165	\$ 36,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.48	\$ 58,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.085	\$ 33,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.465	\$ 29,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.135	\$ 65,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.935	\$ 47,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 28,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 39,744	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.005	\$ 52,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.455	\$ 32,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.45	\$ 65,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.185	\$ 31,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 30,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.54	\$ 109,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.255	\$ 36,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.465	\$ 51,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.655	\$ 71,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 18,144	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.525	\$ 15,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 58,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.715	\$ 56,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.515	\$ 61,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.72	\$ 44,928	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 16,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.425	\$ 61,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.025	\$ 26,460	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.275	\$ 31,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 41,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.785	\$ 18,684	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.985	\$ 14,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.265	\$ 12,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 12,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.085	\$ 55,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.455	\$ 32,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.475	\$ 49,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.585	\$ 44,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 14,256	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.655	\$ 6,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.925	\$ 115,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.575	\$ 25,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.85	\$ 100,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.825	\$ 30,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.825	\$ 52,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.075	\$ 36,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.31	\$ 77,544	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 16,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.155	\$ 17,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.755	\$ 25,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.615	\$ 37,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.82	\$ 85,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.125	\$ 89,100	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.5	\$ 97,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.565	\$ 6,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.935	\$ 26,244	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.375	\$ 8,100	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.695	\$ 83,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.255	\$ 15,012	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 6,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 39,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.955	\$ 64,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 4,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.065	\$ 60,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.995	\$ 33,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 79,056	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 16,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 15,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.375	\$ 29,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.045	\$ 43,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.275	\$ 10,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 12,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.915	\$ 9,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.365	\$ 32,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 6,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.135	\$ 21,924	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 16,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.165	\$ 36,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 6,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.525	\$ 15,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.365	\$ 10,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 28,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.535	\$ 13,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.275	\$ 10,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 24,192	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 21,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 10,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 21,168	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.495	\$ 1,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 49,032	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	26E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 17,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 30,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 26,568	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.055	\$ 40,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.245	\$ 17,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 28,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 5,184	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 15,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 52,920	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.735	\$ 30,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.48	\$ 58,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.76	\$ 121,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.535	\$ 34,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.64	\$ 63,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	53.775	\$ 129,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.195	\$ 29,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.715	\$ 78,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.985	\$ 35,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 14,256	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 11,664	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.465	\$ 51,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 16,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 33,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.795	\$ 81,108	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 50,976	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 11,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.64	\$ 20,736	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	23E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.725	\$ 11,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 38,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.165	\$ 14,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.335	\$ 17,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 21,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.365	\$ 10,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 22,248	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 22,032	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.435	\$ 80,244	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.245	\$ 17,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.655	\$ 6,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.735	\$ 30,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.985	\$ 14,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.295	\$ 27,108	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.305	\$ 24,732	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 5,184	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 27,432	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 25,920	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 61,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 48,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 13,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.315	\$ 22,356	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.235	\$ 19,764	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 18,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 23,112	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 41,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 36,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 5,184	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 22,248	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 13,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.525	\$ 37,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 29,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 8,208	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.825	\$ 9,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.305	\$ 46,332	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.66	\$ 80,784	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	26E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 23,544	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	25E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 4,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.995	\$ 11,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.055	\$ 40,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.135	\$ 21,924	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 38,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.725	\$ 11,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 58,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.405	\$ 22,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 21,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 36,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.485	\$ 25,164	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.715	\$ 13,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.485	\$ 25,164	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.85	\$ 78,840	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 24,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 69,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 33,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.665	\$ 68,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.11	\$ 17,064	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.515	\$ 18,036	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.165	\$ 36,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.195	\$ 50,868	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.635	\$ 32,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 62,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 64,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.085	\$ 77,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.045	\$ 43,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.245	\$ 17,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.395	\$ 46,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.425	\$ 39,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	27E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.945	\$ 45,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.85	\$ 14,040	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.185	\$ 31,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 36,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	24E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.375	\$ 72,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.805	\$ 35,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.41	\$ 32,184	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.685	\$ 85,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.425	\$ 104,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.18	\$ 86,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.475	\$ 49,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.625	\$ 56,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.51	\$ 73,224	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.46	\$ 63,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	27E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.485	\$ 25,164	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 34,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.535	\$ 13,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.165	\$ 14,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.065	\$ 38,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.895	\$ 35,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 30,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.885	\$ 16,524	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 39,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 26,784	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.015	\$ 28,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.97	\$ 71,928	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 17,928	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.755	\$ 25,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.135	\$ 43,524	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.555	\$ 51,732	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 15,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.16	\$ 91,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 42,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 19,656	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 36,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.61	\$ 71,064	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.365	\$ 32,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 27,648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.705	\$ 37,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 45,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.645	\$ 51,948	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 56,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.005	\$ 52,812	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.945	\$ 45,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 41,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.86	\$ 33,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	57.375	\$ 137,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 24,840	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.455	\$ 53,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.745	\$ 28,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 38,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.185	\$ 10,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 56,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.735	\$ 73,764	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.125	\$ 24,300	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.845	\$ 26,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 19,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 23,760	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 64,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 47,736	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 28,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.855	\$ 45,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 10,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.795	\$ 102,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.965	\$ 40,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.645	\$ 51,948	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 21,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.335	\$ 39,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.87	\$ 74,088	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 50,112	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 19,224	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 10,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 34,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.585	\$ 23,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 4,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.955	\$ 21,492	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.225	\$ 43,740	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.995	\$ 55,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 21,384	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 23,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 17,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.985	\$ 14,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.685	\$ 64,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	26E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.27	\$ 43,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 46,224	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	25E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 57,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 21,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.055	\$ 62,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.925	\$ 50,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 31,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	89.145	\$ 213,948	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.2	\$ 60,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.16	\$ 69,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 41,256	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 1,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.33	\$ 72,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.53	\$ 111,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.165	\$ 79,596	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 48,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.795	\$ 59,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.195	\$ 29,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 49,896	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.985	\$ 35,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	28E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.875	\$ 40,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	26E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.1	\$ 105,840	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.255	\$ 15,012	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.39	\$ 101,736	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.825	\$ 30,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 19,224	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.725	\$ 11,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	25E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.155	\$ 17,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	24E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.425	\$ 61,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	26E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	23E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.9	\$ 2,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.605	\$ 39,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.995	\$ 11,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	26E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 11,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	27E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.735	\$ 52,164	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 20,088	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.45	\$ 1,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	16N	24E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	17N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 46,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	19N	26E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	23E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.715	\$ 78,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.7	\$ 71,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.815	\$ 54,756	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	18N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.695	\$ 83,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 79,056	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	20N	24E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.775	\$ 21,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	24E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.935	\$ 47,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 29,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.225	\$ 43,740	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.445	\$ 34,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.005	\$ 31,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 23,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 22,032	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	14N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.83	\$ 83,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	14N	24E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.635	\$ 75,924	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	14N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 26,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	14N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	14N	25E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	25E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	15N	23E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Grant	14N	25E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 5,184	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	26E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.515	\$ 61,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.725	\$ 11,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.405	\$ 972	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 13,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 21,168	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.025	\$ 48,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	21N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.685	\$ 20,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.9	\$ 45,360	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.145	\$ 19,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.08	\$ 24,192	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	42	Grant	22N	27E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 18,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 23,760	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 52,056	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	129.87	\$ 311,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.825	\$ 30,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.505	\$ 63,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.255	\$ 36,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Grant	21N	28E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.755	\$ 69,012	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.425	\$ 17,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.11	\$ 17,064	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 23,976	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.515	\$ 18,036	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 39,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 12,312	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.905	\$ 11,772	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 26,568	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.52	\$ 27,648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 17,928	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 20,088	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 25,488	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 21,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	47.43	\$ 113,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.465	\$ 29,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.035	\$ 24,084	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.685	\$ 20,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 39,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 27,216	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.655	\$ 49,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.675	\$ 44,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 13,824	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 25,920	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 19,656	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.905	\$ 11,772	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.845	\$ 26,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 30,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.365	\$ 10,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.365	\$ 10,476	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.165	\$ 14,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.075	\$ 14,580	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.385	\$ 27,324	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.725	\$ 32,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.685	\$ 20,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 21,384	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	18N	31E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 31,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 28,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.63	\$ 1,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	15N	28E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.39	\$ 58,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	16N	28E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.9	\$ 45,360	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	41	Adams	17N	31E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.715	\$ 35,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 16,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.655	\$ 6,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.97	\$ 28,728	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 29,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.17	\$ 24,408	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 39,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 36,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 24,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.585	\$ 1,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 2,376	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.935	\$ 26,244	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 27,216	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.955	\$ 43,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 43,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.04	\$ 55,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 46,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 42,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 30,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 54,000	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.715	\$ 56,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.405	\$ 44,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.445	\$ 13,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.665	\$ 25,596	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.345	\$ 36,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.295	\$ 27,108	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.36	\$ 65,664	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 28,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 39,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 16,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.17	\$ 24,408	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 27,000	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 32,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 30,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.805	\$ 35,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.585	\$ 1,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 24,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 25,272	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 20,088	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.555	\$ 51,732	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.925	\$ 28,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	52.155	\$ 125,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 26,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.275	\$ 31,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.665	\$ 25,596	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 27,432	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.835	\$ 50,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.235	\$ 41,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 18,360	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.68	\$ 54,432	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 34,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.445	\$ 34,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.845	\$ 69,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.575	\$ 25,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.77	\$ 76,248	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	54.405	\$ 130,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.225	\$ 22,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.95	\$ 55,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.305	\$ 46,332	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.935	\$ 26,244	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.475	\$ 92,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.405	\$ 108,972	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.675	\$ 109,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.755	\$ 112,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	41.085	\$ 98,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.59	\$ 97,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.29	\$ 82,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.395	\$ 24,948	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.99	\$ 23,976	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.215	\$ 24,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.955	\$ 43,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.415	\$ 20,196	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.385	\$ 27,324	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.055	\$ 40,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 26,784	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 18,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.015	\$ 28,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.345	\$ 80,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.295	\$ 48,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.435	\$ 15,444	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.455	\$ 10,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 14,256	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.94	\$ 14,256	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.965	\$ 40,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.28	\$ 19,872	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 25,272	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.575	\$ 25,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.275	\$ 31,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.395	\$ 24,948	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 23,544	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 34,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.265	\$ 34,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.54	\$ 66,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 25,272	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.715	\$ 13,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 16,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 29,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.73	\$ 42,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.845	\$ 26,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 11,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 69,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.46	\$ 41,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.045	\$ 21,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.265	\$ 12,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 18,144	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 35,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.535	\$ 13,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.285	\$ 51,084	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 44,064	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.455	\$ 32,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.455	\$ 32,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.115	\$ 26,676	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.65	\$ 18,360	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.665	\$ 25,596	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.47	\$ 39,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.63	\$ 44,712	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.985	\$ 14,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	55.98	\$ 134,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.495	\$ 22,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 20,520	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.265	\$ 77,436	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.835	\$ 28,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.035	\$ 45,684	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.135	\$ 21,924	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 28,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.165	\$ 14,796	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 4,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 16,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 21,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 18,144	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.555	\$ 30,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.155	\$ 17,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 26,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.895	\$ 35,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.135	\$ 21,924	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.425	\$ 17,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.125	\$ 67,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 15,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.1	\$ 19,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 17,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 32,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.68	\$ 32,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.445	\$ 34,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.495	\$ 22,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.215	\$ 24,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.765	\$ 1,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.005	\$ 31,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.445	\$ 13,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.425	\$ 61,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.29	\$ 60,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.815	\$ 54,756	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.695	\$ 18,468	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.105	\$ 29,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.425	\$ 17,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.225	\$ 22,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 19,224	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.565	\$ 6,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Grant County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation		
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township									Range	Section
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.465	\$ 29,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.445	\$ 13,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 62,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 12,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.395	\$ 46,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.245	\$ 38,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.735	\$ 30,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.045	\$ 21,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.415	\$ 84,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description  (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits  (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	16N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.125	\$ 67,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.445	\$ 34,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 11,664	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.18	\$ 86,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Grant CD	Property Owner	On-farm Conservation	36	Adams	15N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Douglas County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	Well Name or #	WRIA No.	County							
																	<b>Calculation Methodology</b>  Approximately 98% of the irrigated acreage in Douglas County is in tree fruit production, the remainder is irrigated pasture.  The base calculations assume three acre feet per irrigation season.	Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	20	22	Private Landowner	Columbia River		44	Douglas	238	\$985,188	2006	>10 yrs	Medium		
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	21	22	Private Landowner	Columbia River		44	Douglas	526	\$2,175,865	2006	>10 yrs	Medium	An estimate of the acreage was made using ArcGIS and a USDA 2005 compliance color photo of Douglas County.	Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	21	23	Private Landowner	Other		44	Douglas	9	\$35,583	2006	>10 yrs	Medium	Any irrigated acreage included within one of the two irrigation districts in Douglas County (Greater Wenatchee or Wenatchee Reclamation) was removed from the values shown.	Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	22	20	Private Landowner	Columbia River		44	Douglas	1	\$4,560	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	22	21	Private Landowner	Columbia River		44	Douglas	19	\$78,599	2006	>10 yrs	Medium	Professional judgement was used to break down the overall types of irrigation infrastructure. The assumed infrastructure breakdown is: 5% Overhead Impact, 40% Undertree Impact, 40% Undertree Micro, 5% Undertree Emitter, 5% Other (hand lines or wheel lines).	Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	22	22	Private Landowner	Columbia River		44	Douglas	52	\$215,202	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	22	23	Private Landowner	Other		44	Douglas	481	\$1,988,783	2006	>10 yrs	Medium	NRCS efficiency factors were used to estimate the ammount of water savings potential. An efficiency of 90% for Undertree Emitters was used as the maximum potential. Overhead Impacts 60%, Undertree Impacts 75%, Undertree Micros 85%, Other 65%.	Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	22	23	Private Landowner	Other		44	Douglas	289	\$1,193,337	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	23	23	Private Landowner	Other		44	Douglas	64	\$265,468	2006	>10 yrs	Medium	The potential water savings is the result of multiplying the acreage by the estimated infrastructure breakdown percentage, then multiplied by the difference between the maximum efficiency and the estimated current efficiency, then multiplied by three AF. This is repeated for each type of estimated infrastructure (Overtree Imp., Undertree Micro etc.) and then all are added together to estimate the potential AF savings in each Township and Range.	Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	23	24	Private Landowner	Other		44	Douglas	250	\$1,033,129	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	23	25	Private Landowner	Other		44	Douglas	42	\$172,277	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	24	20	Private Landowner	Columbia River		44	Douglas	23	\$95,684	2006	>10 yrs	Medium	To estimate the cost using 2006 figures, the NRCS EQUIP cost share rate of \$1,200/acre at 75% cost share is used at an equivalent of 100% cost share (\$1,600/acre). With historical EQUIP funding levels of \$500,000 per year, the estimated time for completion would be greater than 10 years.	Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	24	21	Private Landowner	Columbia River		44	Douglas	92	\$379,225	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	24	25	Private Landowner	Other		44	Douglas	156	\$643,553	2006	>10 yrs	Medium	The cost estimates reflect a 100% implementation to the maximum efficiency infrastructure (90% efficient) and is highly unlikely to completely occur.	Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	25	21	Private Landowner	Columbia River		44	Douglas	389	\$1,609,634	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	25	25	Private Landowner	Other		44	Douglas	132	\$545,543	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	26	21	Private Landowner	Columbia River		44	Douglas	405	\$1,677,046	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	26	22	Private Landowner	Columbia River		44	Douglas	325	\$1,342,662	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	26	23	Private Landowner	Columbia River		44	Douglas	61	\$253,445	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	26	25	Private Landowner	Other		44	Douglas	6	\$25,536	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).



Table C-1. Douglas County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)
			WRIA No.	County	Township	Range	Irrigation Entity Name	Stream Name	Well Name or #	WRIA No.	County							
Foster Creek	Property Owner	On-farm Conservation	44	Douglas	26	26	Private Landowner	Other		44	Douglas	29	\$118,560	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	27	23	Private Landowner	Columbia River		50	Douglas	194	\$800,371	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	27	28	Private Landowner	Other		50	Douglas	232	\$958,269	2006	>10 yrs	Medium		Increase in groundwater aquifer (groundwater source > 1 mile from Columbia River).
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	29	23	Private Landowner	Columbia River		50	Douglas	12	\$43,958	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	29	24	Private Landowner	Columbia River		50	Douglas	26	\$107,327	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	29	25	Private Landowner	Columbia River		50	Douglas	196	\$810,130	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	29	26	Private Landowner	Columbia River		50	Douglas	313	\$1,295,374	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	30	23	Private Landowner	Columbia River		50	Douglas	4	\$17,921	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	30	24	Private Landowner	Columbia River		50	Douglas	645	\$2,667,478	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	30	25	Private Landowner	Columbia River		50	Douglas	585	\$2,420,205	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	30	26	Private Landowner	Columbia River		50	Douglas	3	\$13,634	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	30	30	Private Landowner	Columbia River		50	Douglas	9	\$38,806	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	31	29	Private Landowner	Columbia River		50	Douglas	18	\$74,191	2006	>10 yrs	Medium		Increase in Columbia River instream flows.
Foster Creek	Property Owner	On-farm Conservation	50	Douglas	31	30	Private Landowner	Columbia River		50	Douglas	43	\$179,269	2006	>10 yrs	Medium		Increase in Columbia River instream flows.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.115	\$ 26,676	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.605	\$ 39,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 30,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.86	\$ 11,664	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.675	\$ 44,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.565	\$ 6,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.525	\$ 15,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 35,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.985	\$ 35,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 29,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.64	\$ 20,736	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.605	\$ 18,252	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.715	\$ 13,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 22,896	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.725	\$ 54,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.235	\$ 19,764	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 24,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.89	\$ 47,736	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.455	\$ 53,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.585	\$ 23,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 23,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 27,000	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 24,840	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.055	\$ 19,332	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.025	\$ 4,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 2,376	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.685	\$ 64,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.235	\$ 41,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 30,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.095	\$ 31,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.405	\$ 22,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	28E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.9	\$ 2,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 21,384	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.795	\$ 16,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.715	\$ 13,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 6,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.27	\$ 22,248	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.245	\$ 17,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.745	\$ 28,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.655	\$ 27,972	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 40,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 39,744	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 16,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.885	\$ 38,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.94	\$ 79,056	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 20,952	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.245	\$ 38,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 17,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 15,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.665	\$ 3,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 4,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.07	\$ 26,568	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 38,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 21,600	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 16,200	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.145	\$ 19,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.995	\$ 11,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 34,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 23,112	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 15,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 54,216	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 35,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.68	\$ 32,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.505	\$ 20,412	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.825	\$ 9,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 26,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.905	\$ 33,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 28,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.175	\$ 55,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.005	\$ 9,612	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.025	\$ 26,460	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 28,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 12,960	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 4,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 22,464	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.085	\$ 12,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.19	\$ 84,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.425	\$ 17,820	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.665	\$ 25,596	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 25,920	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 17,928	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 18,144	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 8,208	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.285	\$ 51,084	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 19,656	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 40,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.605	\$ 104,652	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.695	\$ 61,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.235	\$ 41,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.235	\$ 84,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 12,096	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.335	\$ 17,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 13,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.09	\$ 43,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.185	\$ 10,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.68	\$ 119,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 14,904	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.545	\$ 54,108	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.325	\$ 63,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.63	\$ 1,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 32,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 50,112	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.785	\$ 18,684	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.055	\$ 19,332	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.79	\$ 6,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.365	\$ 32,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.335	\$ 39,204	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.13	\$ 55,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.16	\$ 48,384	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.055	\$ 40,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.525	\$ 15,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.525	\$ 15,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.795	\$ 37,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.825	\$ 9,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.845	\$ 47,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 4,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.375	\$ 8,100	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.245	\$ 38,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 21,816	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.495	\$ 44,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 25,920	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 44,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 44,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.155	\$ 38,772	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 41,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 35,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.545	\$ 32,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.085	\$ 55,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.4	\$ 56,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.19	\$ 62,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.225	\$ 22,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 10,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.88	\$ 93,312	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.27	\$ 648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.36	\$ 864	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.075	\$ 36,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 13,392	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.225	\$ 22,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.535	\$ 13,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.445	\$ 13,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 17,712	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.9	\$ 23,760	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 15,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.685	\$ 20,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 30,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.915	\$ 9,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.775	\$ 42,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.215	\$ 67,716	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 41,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.775	\$ 42,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.635	\$ 32,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.525	\$ 37,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.265	\$ 34,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.26	\$ 24,624	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.385	\$ 27,324	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.885	\$ 16,524	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 36,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.555	\$ 51,732	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 18,792	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.405	\$ 44,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.115	\$ 5,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 7,992	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.01	\$ 19,224	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.275	\$ 10,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.275	\$ 10,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.265	\$ 12,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.125	\$ 2,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.535	\$ 13,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 34,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 37,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.41	\$ 10,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.825	\$ 9,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.585	\$ 1,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 29,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 51,192	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.285	\$ 51,084	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.445	\$ 13,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.495	\$ 44,388	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.265	\$ 34,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.335	\$ 82,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 36,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.2	\$ 38,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.285	\$ 29,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.055	\$ 40,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 44,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.625	\$ 78,300	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 28,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.295	\$ 5,508	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	30.96	\$ 74,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.005	\$ 31,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.255	\$ 15,012	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.675	\$ 23,220	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.25	\$ 27,000	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.69	\$ 30,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.16	\$ 91,584	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.985	\$ 14,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.945	\$ 23,868	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 22,464	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.585	\$ 23,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 12,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.155	\$ 17,172	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.945	\$ 23,868	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.66	\$ 15,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.845	\$ 4,428	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.755	\$ 4,212	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 3,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 6,480	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.98	\$ 4,752	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.165	\$ 36,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	33	Franklin	10N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.905	\$ 33,372	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	33	Franklin	10N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 33,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	33	Franklin	10N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.99	\$ 45,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.615	\$ 15,876	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.555	\$ 8,532	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.77	\$ 76,248	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.185	\$ 10,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.335	\$ 17,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.585	\$ 1,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 1,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.63	\$ 1,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.035	\$ 2,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.395	\$ 68,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.72	\$ 1,728	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 4,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 16,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.43	\$ 5,832	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.71	\$ 4,104	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.575	\$ 3,780	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.395	\$ 3,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 8,208	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.285	\$ 7,884	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 2,376	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 2,376	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.875	\$ 18,900	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.545	\$ 10,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.215	\$ 2,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.575	\$ 25,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.67	\$ 78,408	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.715	\$ 35,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.795	\$ 37,908	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 38,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.475	\$ 49,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.965	\$ 19,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.015	\$ 115,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.325	\$ 19,980	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.665	\$ 25,596	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.295	\$ 48,708	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.655	\$ 27,972	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.315	\$ 43,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 30,024	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.05	\$ 31,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.6	\$ 51,840	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.915	\$ 9,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.02	\$ 81,648	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 42,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.225	\$ 22,140	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.015	\$ 28,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.515	\$ 18,036	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 36,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.11	\$ 60,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.145	\$ 19,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.3	\$ 79,920	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.415	\$ 20,196	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 41,040	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.9	\$ 2,160	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 15,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.525	\$ 37,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 17,496	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.53	\$ 3,672	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.495	\$ 65,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 22,464	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.495	\$ 1,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 2,376	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 15,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.025	\$ 48,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.445	\$ 13,068	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.275	\$ 10,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.32	\$ 10,368	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 10,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.645	\$ 30,348	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.335	\$ 17,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.705	\$ 16,092	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.185	\$ 10,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.275	\$ 10,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.495	\$ 22,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 16,416	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 34,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.69	\$ 8,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 9,504	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.71	\$ 25,704	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.955	\$ 21,492	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 33,696	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.12	\$ 36,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.095	\$ 53,028	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 32,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 26,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 20,952	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.855	\$ 2,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 2,376	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.87	\$ 9,288	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 29,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.785	\$ 40,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.125	\$ 67,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.015	\$ 28,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.975	\$ 59,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 46,440	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 7,128	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.6	\$ 8,640	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.13	\$ 12,312	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 23,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.77	\$ 11,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.935	\$ 4,644	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.235	\$ 41,364	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.215	\$ 89,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.565	\$ 6,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.72	\$ 1,728	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.74	\$ 18,576	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.635	\$ 11,124	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.78	\$ 9,072	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.745	\$ 6,588	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.205	\$ 5,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.775	\$ 21,060	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.89	\$ 4,536	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.51	\$ 8,424	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.475	\$ 70,740	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 39,312	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.405	\$ 22,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.455	\$ 32,292	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 40,608	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.44	\$ 3,456	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.685	\$ 20,844	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.405	\$ 22,572	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 18,144	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.995	\$ 11,988	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.305	\$ 3,132	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 42,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.49	\$ 13,176	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.36	\$ 864	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 9,720	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.06	\$ 7,344	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.105	\$ 7,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 7,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.79	\$ 28,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.81	\$ 1,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 56,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.585	\$ 1,404	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.46	\$ 20,304	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.495	\$ 22,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.265	\$ 12,636	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.735	\$ 8,964	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.935	\$ 26,244	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.745	\$ 28,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.98	\$ 26,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.52	\$ 92,448	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.925	\$ 7,020	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.195	\$ 7,668	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.105	\$ 29,052	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.73	\$ 107,352	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 42,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 1,296	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.725	\$ 11,340	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.735	\$ 52,164	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.525	\$ 37,260	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.355	\$ 34,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.57	\$ 58,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 19,008	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.025	\$ 69,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.895	\$ 14,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.285	\$ 29,484	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.385	\$ 48,924	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.535	\$ 13,284	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 20,520	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 15,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.465	\$ 29,916	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.12	\$ 14,688	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.675	\$ 1,620	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.25	\$ 5,400	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.095	\$ 9,828	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.815	\$ 11,556	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.62	\$ 3,888	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.375	\$ 51,300	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.385	\$ 5,724	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 53,136	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.6	\$ 30,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.66	\$ 59,184	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 5,616	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.145	\$ 19,548	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 24,840	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 6,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.355	\$ 34,452	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 49,032	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.175	\$ 12,420	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.055	\$ 19,332	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.595	\$ 20,628	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 11,016	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.805	\$ 13,932	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.945	\$ 2,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.45	\$ 1,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.935	\$ 26,244	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.915	\$ 30,996	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.585	\$ 23,004	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 49,032	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.165	\$ 36,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 28,944	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 12,528	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.825	\$ 52,380	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.215	\$ 46,116	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.275	\$ 31,860	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	35	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.275	\$ 53,460	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.475	\$ 27,540	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.335	\$ 17,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 27,432	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 50,328	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 17,712	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.015	\$ 7,236	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.465	\$ 8,316	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.705	\$ 37,692	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 14,472	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.145	\$ 41,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.105	\$ 50,652	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.43	\$ 27,432	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.685	\$ 64,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.865	\$ 21,276	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.485	\$ 3,564	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.555	\$ 51,732	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.145	\$ 41,148	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.2	\$ 17,280	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.345	\$ 15,228	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 16,848	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.015	\$ 28,836	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 6,912	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.23	\$ 10,152	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.14	\$ 9,936	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.375	\$ 8,100	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.645	\$ 8,748	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 8,208	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.15	\$ 7,560	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.065	\$ 16,956	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.205	\$ 26,892	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.44	\$ 89,856	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.8	\$ 4,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.625	\$ 13,500	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 42,984	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.505	\$ 42,012	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.375	\$ 29,700	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.45	\$ 65,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.98	\$ 69,552	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.475	\$ 5,940	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 3,240	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.515	\$ 18,036	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.91	\$ 21,384	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 2,592	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.8	\$ 112,320	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.36	\$ 87,264	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.825	\$ 9,180	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.45	\$ 1,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.57	\$ 15,768	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 15,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.93	\$ 38,232	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 34,776	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.38	\$ 82,512	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.07	\$ 4,968	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheelline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.615	\$ 59,076	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.775	\$ 42,660	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.215	\$ 24,516	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.745	\$ 49,788	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	65.565	\$ 157,356	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.8	\$ 69,120	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.415	\$ 63,396	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.435	\$ 37,044	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.565	\$ 6,156	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.295	\$ 70,308	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.975	\$ 16,740	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 16,632	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 2,808	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.195	\$ 29,268	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.745	\$ 28,188	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.72	\$ 1,728	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36		14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.355	\$ 12,852	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36		12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 39,312	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project				Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	17	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.45	\$ 1,080	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.73	\$ 20,952	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.45	\$ 22,680	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.34	\$ 27,216	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 42,336	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.95	\$ 11,880	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	33	Franklin	10N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.52	\$ 6,048	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	33	Franklin	10N	30E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.5	\$ 10,800	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	33	Franklin	10N	30E	24	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.835	\$ 6,804	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.585	\$ 44,604	2006	0-5 yrs	Medium	The proposed project would convert 90% of the existing Handline or Wheeline irrigation system to center pivot irrigation.	Water quality would benefit from reduced leaching of nitrate and pesticides into the ground water.	Franklin CD, Grant CD and GWMA estimates.
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.82	\$ 9,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.5	\$ 23,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.28	\$ 18,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.1	\$ 17,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 14,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.29	\$ 16,969	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 17,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.78	\$ 13,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.19	\$ 17,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 19,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 19,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 14,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 14,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.35	\$ 10,781	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 13,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 15,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 8,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.36	\$ 47,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.18	\$ 18,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.99	\$ 1,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 13,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 15,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 18,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 19,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.1	\$ 27,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	2	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.74	\$ 26,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 17,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.35	\$ 1,406	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.39	\$ 6,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.22	\$ 14,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.64	\$ 9,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 15,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 12,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.96	\$ 22,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.47	\$ 26,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.46	\$ 18,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 12,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.17	\$ 10,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 15,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.97	\$ 12,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.04	\$ 5,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.95	\$ 33,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.92	\$ 17,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.26	\$ 1,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 15,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.52	\$ 21,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.02	\$ 7,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	28E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.84	\$ 44,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 15,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	28E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 21,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 15,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.55	\$ 8,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 22,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	44.1	\$ 45,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 2,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 21,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18	\$ 18,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.12	\$ 25,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.06	\$ 21,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 15,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.33	\$ 3,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 12,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 12,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.03	\$ 15,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.95	\$ 14,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 3,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 7,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.77	\$ 14,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.76	\$ 15,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	67.41	\$ 70,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 17,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.74	\$ 17,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.86	\$ 14,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	43.56	\$ 45,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.33	\$ 22,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.26	\$ 20,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 13,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.94	\$ 24,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.47	\$ 7,781	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.92	\$ 8,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 3,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.4	\$ 33,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.41	\$ 23,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 21,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.29	\$ 26,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.01	\$ 27,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.17	\$ 38,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 18,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	28E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.15	\$ 12,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.3	\$ 6,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.85	\$ 24,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.03	\$ 6,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.97	\$ 31,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.03	\$ 25,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 22,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	34.2	\$ 35,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.31	\$ 24,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 13,406	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 15,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.05	\$ 22,969	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.53	\$ 29,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.59	\$ 14,156	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	30E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.3	\$ 25,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 18,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.02	\$ 16,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.91	\$ 18,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 18,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 18,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.61	\$ 21,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.82	\$ 37,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.81	\$ 19,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.45	\$ 19,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.3	\$ 44,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.25	\$ 21,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.84	\$ 16,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.55	\$ 18,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	11N	29E	3	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.44	\$ 29,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.82	\$ 18,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 13,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.33	\$ 40,969	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	9N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.96	\$ 13,500	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	10N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 12,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.67	\$ 15,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.59	\$ 23,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 24,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 9,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	0.54	\$ 563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.33	\$ 12,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 10,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.16	\$ 11,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 22,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.44	\$ 39,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	36	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 8,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.23	\$ 13,781	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	33.3	\$ 34,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.14	\$ 13,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.7	\$ 2,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 12,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	31	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 2,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	29.52	\$ 30,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	98.73	\$ 102,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	42.03	\$ 43,781	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.67	\$ 24,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 15,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 9,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 21,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.58	\$ 33,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 20,156	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.18	\$ 9,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.65	\$ 26,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	19	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.69	\$ 22,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.83	\$ 17,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.17	\$ 29,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.5	\$ 14,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.24	\$ 22,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	64.44	\$ 67,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	32.58	\$ 33,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	26	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.67	\$ 5,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	4	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.54	\$ 9,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 22,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.72	\$ 38,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	34	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	46.71	\$ 48,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.96	\$ 4,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.7	\$ 12,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.48	\$ 6,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.31	\$ 14,906	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.42	\$ 12,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.72	\$ 10,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.49	\$ 15,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 12,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.05	\$ 4,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.64	\$ 18,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.36	\$ 9,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.75	\$ 16,406	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.78	\$ 22,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	28	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	37.8	\$ 39,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	39.06	\$ 40,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	31.5	\$ 32,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.76	\$ 24,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.45	\$ 28,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	22	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.55	\$ 27,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.58	\$ 15,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.06	\$ 12,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	21	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.81	\$ 10,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.13	\$ 14,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.89	\$ 11,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.53	\$ 10,969	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.01	\$ 17,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.24	\$ 12,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.8	\$ 11,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	24.84	\$ 25,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	15	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.61	\$ 12,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.76	\$ 6,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.21	\$ 6,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.37	\$ 8,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.24	\$ 3,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.59	\$ 4,781	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 15,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 2,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 13,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	16	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 11,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.11	\$ 16,781	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.58	\$ 24,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.87	\$ 13,406	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.4	\$ 5,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.3	\$ 15,938	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	8	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.83	\$ 8,156	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.75	\$ 7,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	21.15	\$ 22,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	5	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.09	\$ 9,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.58	\$ 5,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.36	\$ 19,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.35	\$ 20,156	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.86	\$ 23,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.86	\$ 14,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.4	\$ 15,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 18,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.34	\$ 21,188	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.9	\$ 19,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	50.49	\$ 52,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.84	\$ 7,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.92	\$ 27,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.62	\$ 11,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD



Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.08	\$ 19,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.04	\$ 14,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.79	\$ 21,656	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.94	\$ 15,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.57	\$ 16,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.37	\$ 36,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.38	\$ 7,688	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	30E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.68	\$ 14,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	13	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	36.09	\$ 37,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	49.41	\$ 51,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	12	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	38.79	\$ 40,406	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	22.14	\$ 23,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.42	\$ 50,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	12.51	\$ 13,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	27.99	\$ 29,156	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.62	\$ 29,813	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	29	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.43	\$ 21,281	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	33	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	14.85	\$ 15,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	5.22	\$ 5,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	23	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9.63	\$ 10,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	10	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	4.68	\$ 4,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	3.42	\$ 3,563	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	19.53	\$ 20,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	17.37	\$ 18,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	11.88	\$ 12,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	6	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	9	\$ 9,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.28	\$ 27,375	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	28E	11	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.88	\$ 21,750	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	9	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	67.77	\$ 70,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	48.42	\$ 50,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	23.49	\$ 24,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	25.56	\$ 26,625	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.17	\$ 1,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	10.44	\$ 10,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.29	\$ 7,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range	Section								
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.97	\$ 3,094	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.88	\$ 3,000	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	1.08	\$ 1,125	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.16	\$ 2,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.34	\$ 2,438	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	6.93	\$ 7,219	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.56	\$ 17,250	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	27	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	18.54	\$ 19,313	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	7.56	\$ 7,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	28E	25	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.38	\$ 17,063	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.39	\$ 16,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	30	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	45.81	\$ 47,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	26.91	\$ 28,031	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	29E	20	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	40.77	\$ 42,469	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	32	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	35.91	\$ 37,406	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	2.61	\$ 2,719	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	13N	30E	14	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 15,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	12N	29E	7	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	20.97	\$ 21,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Table C-1. Franklin County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source						Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)	Citation	
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	WRIA No.	County	Township	Range									Section
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	28.17	\$ 29,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	30E	1	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	16.65	\$ 17,344	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	8.19	\$ 8,531	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	15.21	\$ 15,844	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.05	\$ 13,594	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD
Franklin CD	Property Owner	On-farm Conservation	36	Franklin	14N	31E	18	USBR-Col. Basin Project	Columbia River	42	Grant	28N	30E	01	13.32	\$ 13,875	2006	0-5 yrs	High	The proposed project would convert 75% of the existing furrow irrigation to center pivot irrigation. 5% of the furrow irrigation would be fallowed corners.	Water quality would benefit from reduced leaching of nitrate and pesticides and from the reduction in soil erosion.	Franklin CD

Conservation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project		Location of Diversion or water source					Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)
				WRIA No.	County	Irrigation Entity Name	Stream Name	Well Name or #	WRIA No.	County							
Underwood CD	Property Owner	Various	Automation/Irrigation Water Mgmt													Landowners would rather not be identified due to water rights concerns. We were able to identify 4 flood irrigation to Pivot Irrigation possibilities, and 2 Sprinkler (wheel-line) irrigation to Pivot irrigation possibilities. One landowner estimated the cost of his project at \$50,000. Projects would be on sites of about 15-40 acres.	Power savings would be a side benefit, for wheel/Pivot conversions, as Pivots use much less electricity than wheel lines.



Table C-1. Okanogan County Conservation District Conservation Projects Inventory Results

Conservation District Submitting the Information	Type of Entity who will implement Project	Type of Project	Location of Project					Location of Diversion or water source							Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description (Include information such as number of acres, crop type, length of pipe or lining, and the entity's readiness to proceed. Provide enough detail to understand the project.)	Description of Secondary Benefits (Describe secondary benefits such as improvement in water quality, fisheries habitat, fish passage etc.)
			WRIA No.	County	Township	Range	Section	Irrigation Entity Name	Stream Name	Well Name or #	WRIA No.	County	Township	Range	Section						
WSCC on behalf of Okanogan CD	Property Owner	On-farm Conservation	48	Okanogan				Private Landowner			48	Okanogan				911	\$240,000	2005		Combination of hand lines and wheel lines: Hand lines: 164 sprinklers w/rainbird impact sprinkler heads with 11/64 nozzles at 40 psi giving 5.5 gpm. Wheel lines: 5 wheel lines w/170 rainbird impact sprinkler heads with 11/64 nozzles at 40 psi giving 5.5 gpm. <u>New Irrigation System:</u> Five (5) center pivots ranging in length from 571 .2 ft. to 1,578.4 ft. w/Nelson R3000 regulated blue top rotators on drop tubes. <u>Irrigation Season:</u> May 1 <sup>st</sup> through October 30 <sup>th</sup> —184 days-14 days for cutting, drying, bailing, & misc. = 170 days irrigating	Water quality and fish passage

**Table C-2. Irrigation Districts and Companies in the Washington State Portion of the Columbia River Basin**

Company/District	Acreage	Mail Address	City	State	Zip
<b>Irrigation Districts and Companies that are members of the WSWRA</b>					
Union Gap ID	3,200	180 Clark Road	Wapato	WA	98951
Ellensburg Water Co.	11,000	PO Box 982	Ellensburg	WA	98926
Yakima Reservation ID	54,848	PO Box 1689	Yakima	WA	98907
Ahtanum ID	10,000	PO Box 563	Yakima	WA	98907
Badger Mountain ID	4,500	8033 W. Grandridge Blvd. Ste A	Kennewick	WA	99336
Brewster Flat ID	2,432	94C Mountain View Drive	Brewster	WA	98812
Cascade ID	12,500	8063 Highway 10	Ellensburg	WA	98926
Columbia ID	11,129	10 East Kennewick Avenue	Kennewick	WA	99336
Consolidated ID #19	7,394.12	North 120 Greenacres Road	Greenacres	WA	99016
E Columbia Basin ID	152,000	PO Box E	Othello	WA	99344
Franklin County ID #1	4,700	PO Box 3907	Pasco	WA	99302
Greater Wenatchee ID	9,712	3300 SE Eighth Street	East Wenatchee	WA	98802-9130
Icicle ID	4,263	PO Box 371	Cashmere	WA	98815
Kiona ID	1,200	PO Box 300	Benton City	WA	99320
Kittitas RD	59,122	PO Box 276	Ellensburg	WA	98926
Lake Chelan RD	6,336	PO Box J	Manson	WA	98831
Moses Lake Irrigation & Rehab District	13,000	PO Box 98	Moses Lake	WA	98837
Okanogan ID	5,032	37 A Douglas Road	Okanogan	WA	98840
Oroville-Tonasket ID	10,000	PO Box 1729	Oroville	WA	98844
Quincy-Columbia Basin ID	247,122	PO Box 188	Quincy	WA	98848
S. Columbia Basin ID	226,000	PO Box 1006	Pasco	WA	99301
Sunnyside Valley ID	84,000	PO Box 239	Sunnyside	WA	98944
Touchet Valley ID. #16	5,000	PO Box 688	Waitsburg	WA	99361
Trentwood ID #3	1,403	North 4402 Sullivan Road	Spokane	WA	99216
Vera Water and Power	430	PO Box 630	Veradale	WA	99037
Wenatchee-Chiwawa ID	1,300	PO Box 97	Leavenworth	WA	98826
Wenatchee Heights RD	663	330 East Bohard Road	Wenatchee	WA	98801
Wenatchee RD	12,500	514 Easy Street	Wenatchee	WA	98801
Whitestone RD	3,009	PO Box B	Loomis	WA	98827
Yakima Tieton ID	27,900	470 Camp 4 Road	Yakima	WA	98908
Moab ID #20	2,176	PO Box 81	Newman Lake	WA	99025
Selah Moxee ID		PO Box 166	Moxee	WA	98936
Gardena Farms ID	7,671	539 White Road	Touchet	WA	99360
Kennewick ID	20,200	PO Box 6900	Kennewick	WA	99336
Methow Valley ID	1,524	Box 860	Twisp	WA	98856
Pasadena Park ID #17	1,000	9227 North Upriver Drive	Spokane	WA	99206
Roza ID	72,510	PO Box 810	Sunnyside	WA	98944

See notes at end of table.

Table C-2

Company/District	Acreage	Mail Address	City	State	Zip
<b>Irrigation Districts and Companies that are <u>not</u> members of the WSWRA</b>					
Aeneas Lake ID	1,325	PO Box 786	Tonasket	WA	98855
Alta Vista ID	40	PO Box 768	Okanogan	WA	98840
Artesian ID	71	Route 5 Box 74	Walla Walla	WA	99362
Beehive ID	400	3298 Squilchuck Road	Wenatchee	WA	98801
Benton ID	4,630	PO Box 626	Benton City	WA	99320
Black Sands ID	30,000+	PO Box 1159	Moses Lake	WA	98837
Blalock ID #3	816	Route 1 Box 284	Walla Walla	WA	99362
Blalock Orchard District #12	222.4	Route 5 Box 137	Walla Walla	WA	99362
Bridgeport ID #1	273	PO Box 624	Bridgeport	WA	98813
Bridgeport Bar ID	475	PO Box 186	Brewster	WA	98812
Buena ID	1,033	4361 East Zillah Drive	Zillah	WA	98953
Burbank ID #4	84	PO Box 927	Pasco	WA	99301
Carnhope ID	220	East 4903 - Third Avenue	Spokane	WA	99212
Chelan Falls ID	361	PO Box S	Chelan	WA	98816
Chelan River ID	442	PO Box 1837	Chelan	WA	98816
Columbia Water & Power District	10,000	PO Box 231	Paterson	WA	99345
Consolidated ID #14	347	216 NW "B" Street	College Place	WA	99324
Eastside ID #6	789	Route 1 Box 182	Touchet	WA	99360
Entiat ID	800	2800 Entiat Way	Entiat	WA	98822
Grandview ID	3,797	PO Box 188	Grandview	WA	98930
Granger ID	1,605	PO Box 1099	Granger	WA	98932
Green Tank ID #11	106	C/O Leo McCracken, Route 8 Box 15A	Walla Walla	WA	99362
Hearn ID	22	Route 1 Box 44	Dayton	WA	99328
Helensdale RD	206	PO Box 108	Malott	WA	98829
Home ID	86	PO Box 417	Granger	WA	98932
Hutchinson ID	321	North 618 Sargent Road	Spokane	WA	99212
Hydro ID #9	235	C/O Virginia Kralmen, Route 5 Box 232	Walla Walla	WA	99362
Isenhardt ID	247	PO Box 428	Chelan	WA	98816
Lowden ID #2	741	Route 1 Box 6	Lowden	WA	99360
Lower Squilchuck ID	143	2134 South Methow Street	Wenatchee	WA	98801
Lower Stemilt ID	509	4597 Stemilt Hill Road	Wenatchee	WA	98801
Methow-Okanogan RD	285	Route 1 Box 11-B	Brewster	WA	98812
Millerdale ID	119	1316 Saddlerock Drive	Wenatchee	WA	98801
Model ID	960	1506 S Pierce Road	Spokane	WA	99206
Mud Creek ID #7	409	Route 1 Box 6	Lowden	WA	99360
Naches Selah ID	10,500	620 Guinan Road	Selah	WA	98942
Naches-Union ID	NA	PO Box 4042	Yakima	WA	98901
North Dalles ID	330	PO Box 777	Dallesport	WA	98617
North Spokane ID #8	564.5	North 7221 Regal	Spokane	WA	99207

See notes at end of table.

Table C-2

Company/District	Acreage	Mail Address	City	State	Zip
Orchard Avenue ID #6	480	PO Box 11812	Spokane	WA	99211
Orchard ID #10	114	Route 2 Box 50, Wallula Road	Walla Walla	WA	99362
Palisades ID	675	616 15th Avenue NE	East Wenatchee	WA	98802
Pateros ID	61	PO Box 414	Pateros	WA	98846
Peshastin ID	3,553	PO Box 371	Cashmere	WA	98815
Prosser ID	2,132	PO Box 511	Prosser	WA	99350
Selah & Moxee ID	4,600	1905 South 47th	Yakima	WA	98903
Snipes Mountain ID	1,915	414 Concord Drive	Outlook	WA	98938
Stemilt ID	821	5116 Blair Slack Road	Wenatchee	WA	98801
Terrace Heights ID	565	915 Adamsview	Yakima	WA	98901
Union Gap ID	3,200	616 West First Street	Wapato	WA	98951
Walla Walla Water & Power District #18	7,400	601 Village Way #22	Walla Walla	WA	99362
West End ID	270	202 West Commercial	Dayton	WA	99328
Westside ID #5	1,184	Route 1 Box 182	Touchet	WA	99360
White Salmon ID	378	PO Box 325	White Salmon	WA	98672
Wolf Creek RD	810	Route 1 Box 760	Winthrop	WA	98862
Zillah ID	106	4361 East Zillah Drive	Zillah	WA	98953

**NOTES**

Abbreviations: ID: Irrigation District; Co.: Company; NA: Not available; RD: Reclamation District; WA: Washington

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Quincy-Columbia Basin Irrigation District	Irrigation District	Quincy-Columbia Basin Irrigation District	Lining/Piping	41	Grant					Columbia Basin Project	Columbia River	42	Grant	28N	30E			42,300	\$10,000,000	2002	unknown	High	Replace all lining in Block 89 in Quincy District; laterals are concrete-lined that have deteriorated after 40+ years of operation; water savings due to decrease in seepage loss in the lateral systems; estimated 60 miles of laterals to be relined.		Montgomery Water Group. 2002. Quincy-Columbia Basin Irrigation District Water Conservation Plan.	
Quincy-Columbia Basin Irrigation District	Irrigation District	Quincy-Columbia Basin Irrigation District	Lining/Piping	41	Grant					Columbia Basin Project	Columbia River	42	Grant	28N	30E			5,060	\$2,900,000	2002	unknown	Medium	Piping district-wide; various laterals in many blocks; water savings due to decrease in seepage and evaporation losses; estimated 15 miles of laterals to be piped. Piping priorities may be different now (in 2006) but water savings likely representative for the cost of projects that are implemented.	Reduces liability if failure occurs, increases structural integrity, reclaims land, reduces cleaning and maintenance, controls weeds.	MWG 2002 (QCBID).	
Quincy-Columbia Basin Irrigation District	Irrigation District	Quincy-Columbia Basin Irrigation District	Automation/Irrigation Water Mgmt	41	Grant					Columbia Basin Project	Columbia River	42	Grant	28N	30E			unknown	\$40,000,000	2006	unknown	Medium	Line selected reaches of West Canal	Reduces operating risk.	Pers corr. w/ Darwin Fales 2006	
East Columbia Basin Irrigation District	Irrigation District	East Columbia Basin Irrigation District	Lining/Piping	36	Adams					Columbia Basin Project	Columbia River	42	Grant	28N	30E			25,500	\$7,500,000	2006	0-5 yrs	Low	Piping projects not yet implemented from 1995 Water Conservation Plan are listed here. Cost Estimate and water savings are very preliminary. Costs based upon average cost of \$30/LF for lateral piping. Water Conservation Plan is currently under revision and it is anticipated many more conservation projects and water savings will be identified.	Improves operation and management capabilities, reduces right-of-way requirements, improves agricultural suitability of some land.	MWG 1995 and ECBID 2006.	also in WRIA 41, Grant and Franklin counties
East Columbia Basin Irrigation District	Irrigation District	East Columbia Basin Irrigation District	Lining/Piping	36	Adams					Columbia Basin Project	Columbia River	42	Grant	28N	30E			7000	\$1,800,000	2006	0-5 yrs	Low	Lining projects not yet implemented from 1995 Water Conservation Plan are listed. Estimated costs are very preliminary and based on average lining cost of \$20/LF. Additional lining projects will be proposed in updated Conservation Plan to be published in 2006.	Reduces O&M	MWG 1995 and ECBID 2006.	also in WRIA 41, Grant and Franklin counties
South Columbia Basin Irrigation District	Irrigation District	South Columbia Basin Irrigation District	Lining/Piping	36	Franklin					Columbia Basin Project	Columbia River	42	Grant	28N	30E			11,300	\$916,000	2002	0-5 yrs	High	Lining/piping district-wide; various laterals in many blocks; water savings due to decrease in seepage and evaporation losses; estimated 5.5 miles of laterals to be piped, 3 miles of laterals to be lined; work already started.	Reduces liability if failure occurs, increases structural integrity, reclaims land, reduces cleaning and maintenance, controls weeds.	MWG 2002 (SCBID).	
South Columbia Basin Irrigation District	Irrigation District	South Columbia Basin Irrigation District	Lining/Piping	36	Franklin					Columbia Basin Project	Columbia River	42	Grant	28N	30E			unknown	\$4,700,000	2002	>10 yrs	Low	Lining/piping district-wide; various laterals in many blocks; water savings due to decrease in seepage and evaporation losses; estimated 32 miles of laterals to be lined or piped.	Reduces liability if failure occurs, increases structural integrity, reclaims land, reduces cleaning and maintenance, controls weeds.	MWG 2002 (SCBID).	
South Columbia Basin Irrigation District	Irrigation District	South Columbia Basin Irrigation District	Automation/Irrigation Water Mgmt	36	Franklin					Columbia Basin Project	Columbia River	42	Grant	28N	30E			unknown	\$375,000-\$465,000	2002	>10 yrs	Low	Install automated gates (eight), control structures (one), and SCADA systems (one) at various points along the Potholes East Canal; water savings due to improved operations.	Reduces operating risk.	MWG 2002 (SCBID).	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			1,600	\$5,560,000	1999	6-10 yrs	Medium	Replace all piped laterals in Unit 1 in Bench Unit; laterals and concrete pipe that are leaking after 50 years of operation; replace with PVC pipe; water savings due to reduction in spills and seepage; approximately 32 miles of piping.	Eliminates herbicide need, reduces maintenance costs of cleaning canals, eliminates safety hazards of open canals.	Natural Resources Consulting Engineers. 1999. Irrigation Water Conservation and Management Plan for the Wapato Irrigation District.	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			1,000	\$6,220,000	1999	6-10 yrs	Medium	Replace all piped laterals in Unit 2 in Bench Unit; laterals are concrete pipe that are leaking after 40 years of operation; replace with PVC pipe; water savings due to reduction in spills and seepage; approximately 32 miles of piping.	Eliminates herbicide need, reduces maintenance costs of cleaning canals, eliminates safety hazards of open canals.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			1,300	\$1,400,000	1999	6-10 yrs	Medium	Improve Spencer Lateral in Wapato Unit; 10.5 miles.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			5,900	\$9,000,000	1999	6-10 yrs	Medium	Line Unit 1 (West Highline) Canal in Bench Unit with concrete; water savings due to reduction in seepage; 24.5 miles of lining.	Reduces costs associated with weed control and bank cleaning.	NRCE 1999	



Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			7,200	\$21,870,000	1999	6-10 yrs	Medium	Line Main Extension Canal with concrete and pipe associated laterals and sublaterals in Bench Unit; water savings due to reduction in seepage; 73 miles of lining/piping.	Improves operation and management capabilities, reduces right-of-way requirements, improves agricultural suitability of some land.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			5,200	\$8,700,000	1999	>10 yrs	Low	Line Unit 2 Pump Canal in Bench Unit with concrete; water savings due to reduction in seepage; approximately 15 miles of lining.	Improves water distribution.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			800	\$2,560,000	1999	>10 yrs	Low	Pipe Island laterals and sub-laterals in Bench Unit; water savings due to reduction in seepage; approximately 10 miles of piping.	Reduces energy costs by 47,000 kWh annually.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Storage/Re-reg Reservoirs	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			700	\$310,000	1999	>10 yrs	Low	Construct 370 ac-ft capacity reservoir in Bench Unit; water savings due to water recapture.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Automation/Irrigation Water Mgmt	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			minor	\$770,000	1999	0-5 yrs	High	Replace existing check structures with mechanical gates.	Decreases public liability, increases employee and public protection.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Automation/Irrigation Water Mgmt	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			14,700	\$5,200,000	1999	0-5 yrs	High	Equip all turnouts with adequate water measurement devices; water savings due to reduced deliveries; approximately 3,500 water measuring devices to be installed.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Automation/Irrigation Water Mgmt	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			minor	\$770,000	1999	0-5 yrs	High	Construct water measurement structures at several locations; 23 ramp flumes to be constructed.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			5,100	\$5,040,000	1999	0-5 yrs	High	Cement line Track Lateral and replace or repair water structures; water savings due to decrease in seepage.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			3,400	\$3,300,000	1999	0-5 yrs	High	Concrete line Lateral 4 Extension and line or pipe corresponding sub-laterals; water savings due to decrease in seepage.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			700	\$1,400,000	1999	0-5 yrs	High	Pipe or line East Highline (Unit 1) Canal; water savings due to decrease in seepage and spills; estimated 12,000 feet of pipe.	Reduces maintenance of canal and reduces right-of-way requirements.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			15,900	\$11,280,000	1999	0-5 yrs	High	Replace Satus 3 Canal with piped distribution system; includes 500 ac-ft regulating reservoir; water savings due to decrease in seepage.	Reduces canal maintenance costs, 4,040,000 kWh/yr energy savings.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			8,500	\$5,990,000	1999	0-5 yrs	High	Line Satus 2 Canal with concrete; water savings due to decrease in seepage.	Controls weeds and stabilizes canal banks.	NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Lining/Piping	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			4,600	\$3,380,000	1999	0-5 yrs	High	Line Satus East and Satus West Canals with concrete; water savings due to decrease in seepage.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	Storage/Re-reg Reservoirs	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			900	\$1,030,000	1999	0-5 yrs	High	Construct 850 ac-ft capacity regulating reservoir 1.5 miles downstream of Satus 2 Canal beginning.		NRCE 1999	
Wapato Irrigation District	Irrigation District	Wapato Irrigation District	On-farm Conservation	37	Yakima					Wapato Irrigation Project	Yakima River	37	Yakima	12N	19E			32,500	\$16,730,000	1999	0-5 yrs	High	Voluntary incentive-based program to provide assistance to growers for improvements to irrigation systems and land.	Improved drainage water quality.	NRCE 1999	
Yakima-Tieton Irrigation District	Irrigation District	Yakima-Tieton Irrigation District	Automation/Irrigation Water Mgmt	38	Yakima					Yakima Project	Tieton River	38	Yakima	14N	15E			unknown	\$50,000	2000	6-10 yrs	Medium	Retrofit one pump in Scenic Drive pump station with a Variable Frequency Drive; will reduce volume of water bypassed from demand side of pump back to suction side.	Provides more constant pressure in system	Montgomery Water Group. 2000. Yakima-Tieton Irrigation Project Water Conservation Plan.	
Yakima-Tieton Irrigation District	Irrigation District	Yakima-Tieton Irrigation District	Automation/Irrigation Water Mgmt	38	Yakima					Yakima Project	Tieton River	38	Yakima	14N	15E			unknown	\$50,000-\$400,000	2000	6-10 yrs	Medium	Install SCADA systems; allows for remote monitoring and control of all system components.		MWG 2000 (Y-TIP).	

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Outlook Irrigation District	Irrigation District	Outlook Irrigation District	Lining/Piping	37	Yakima					Yakima Project	Yakima River	37	Yakima	12N	19E			4,265	\$736,000	1995	0-5 yrs	High	Piping district-wide; various sub-laterals; water savings due to decrease in seepage; approximately 5 miles of sub-laterals to be piped.		CH2M Hill. 1995. Outlook Irrigation District Comprehensive Water Conservation Plan.	
South Naches Irrigation District	Irrigation District	South Naches Irrigation District	Lining/Piping	38	Yakima					South Naches Irrigation District	Naches River	38	Yakima	14N	17E			13,000	\$5,400,000	1994	0-5 yrs	High	Piping district-wide in conversion to pressurized distribution system; includes installation of pump station.		CH2M Hill. 1994. South Naches Irrigation District Comprehensive Water Conservation Plan.	
Benton Irrigation District	Irrigation District	Benton Irrigation District	Lining/Piping	37	Benton					Yakima Project	Yakima River	37	Yakima	09N	25E			8,346	\$13,326,000	1999	0-5 yrs	High	Complete pressurized system conversion.		Davis 2000.	One of three alternatives.
Kiona Irrigation District	Irrigation District	Kiona Irrigation District	Lining/Piping	37	Benton					Kiona Irrigation District	Yakima River	37	Benton	09N	25E			14,547	\$2,825,320	1995	0-5 yrs	High	Complete pressurized system conversion.		CH2M Hill. 1996. Kiona Irrigation District Comprehensive Water Conservation Plan.	
Columbia Irrigation District	Irrigation District	Columbia Irrigation District	Lining/Piping	37	Benton					Columbia Irrigation District	Yakima River	37	Benton	10N	27E			16,106	\$8,471,000	1999	unknown	unknown	Piping Lateral 1 and 2 canals and pressurizing Lateral 1; water savings due to decreasing seepage, evaporation, and operational spill.		SCM Consultants. 2001. Facsimile; Subject: Yakima River basin Watershed Plan.	
Columbia Irrigation District	Irrigation District	Columbia Irrigation District	Lining/Piping	37	Benton					Columbia Irrigation District	Yakima River	37	Benton	10N	27E			8,469	\$8,305,300	1999	unknown	unknown	Concrete line Main Canal; water savings due to decrease in seepage losses; approximately 16 miles of lining.		SCM 2001.	
Okanogan Irrigation District	Irrigation District	Okanogan Irrigation District	Other	49	Okanogan					Okanogan Irrigation District	Salmon Creek	49	Okanogan	34N	26E			7,234	\$6,700,000	2002	0-5 yrs	unknown	Construction of new pump station on Okanogan River; pump would supplant water currently supplied through Salmon Creek.		Montgomery Water Group. 2002. Okanogan Irrigation District Water Conservation Plan.	
Okanogan Irrigation District	Irrigation District	Okanogan Irrigation District	Automation/Irrigation Water Mgmt	49	Okanogan					Okanogan Irrigation District	Salmon Creek	49	Okanogan	34N	26E			600	\$300,000	2002	0-5 yrs	unknown	District-wide installation of flow meter and flow measurement devices, software for water budgeting and accounting, improvements to booster stations and variable speed drives, and an automated system for water delivery.		MWG 2002 (OID).	
Okanogan Irrigation District	Irrigation District	Okanogan Irrigation District	On-farm Conservation	49	Okanogan					Okanogan Irrigation District	Salmon Creek	49	Okanogan	34N	26E			400	\$500,000	2002	0-5 yrs	unknown	Provide information of irrigation scheduling, timely crop evapotranspiration rate information, training on water conservation methods, and a demonstration project to assist individual growers.		MWG 2002 (OID).	
Okanogan Irrigation District	Irrigation District	Okanogan Irrigation District	Lining/Piping	49	Okanogan					Okanogan Irrigation District	Salmon Creek	49	Okanogan	34N	26E			1,000	\$1,735,000	2002	0-5 yrs	unknown	Replace existing Salmon Lake feeder canal with pipeline; water savings due to decrease in seepage and increase in capacity.		MWG 2002 (OID).	
Okanogan Irrigation District	Irrigation District	Okanogan Irrigation District	Storage/Re-reg Reservoirs	49	Okanogan					Okanogan Irrigation District	Salmon Creek	49	Okanogan	34N	26E			660	\$2,100,000	2002	0-5 yrs	unknown	Raise Salmon Lake Dam by two feet; increases storage capacity by 660 ac-ft; water savings due to increased storage capacity.		MWG 2002 (OID).	
Kittitas Reclamation District	Irrigation District	Kittitas Reclamation District	Lining/Piping	39	Kittitas					Kittitas Reclamation District	Yakima River	39	Kittitas	20N	13E			48,500	\$38,000,000	1999, 2001	>10 yrs	unknown	Preferred Alternative (1A) in 1999 Water Conservation Plan plus Alternative 2A in 2001 addendum to Water Conservation Plan.	Improved streamflow in Yakima River and Big, Little and Manastash Creeks, Increased public safety, reduced O&M.	CH2M Hill. 1999. Kittitas Reclamation District Water Conservation Plan, Addendum #1, 2001	

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Greater Wenatchee Irrigation District	Irrigation District	Greater Wenatchee Irrigation District	Automation/Irrigation Water Mgmt	44	Douglas					Greater Wenatchee Irrigation District	Columbia River	44	Douglas	22N	21E			unknown	\$70,000	2000	0-5 yrs	unknown	Retrofit five pumps with Variable Frequency Drives; two pumps in Brays Landing; two pumps in Howards Flat, and one pump in East Unit.		Montgomery Water Group. 2000. Greater Wenatchee Irrigation District Water Conservation Plan.	
Greater Wenatchee Irrigation District	Irrigation District	Greater Wenatchee Irrigation District	Automation/Irrigation Water Mgmt	44	Douglas					Greater Wenatchee Irrigation District	Columbia River	44	Douglas	22N	21E			unknown	\$600,000	2000	0-5 yrs	unknown	Install SCADA systems; allows for remote monitoring and control of all system components.		MWG 2000 (GWID).	
Greater Wenatchee Irrigation District	Irrigation District	Greater Wenatchee Irrigation District	On-farm Conservation	44	Douglas					Greater Wenatchee Irrigation District	Columbia River	44	Douglas	22N	21E			unknown	\$2,000	2000	0-5 yrs	unknown	Provide water conservation assistance to District irrigators.		MWG 2000 (GWID).	
Greater Wenatchee Irrigation District	Irrigation District	Greater Wenatchee Irrigation District	Lining/Piping	44	Douglas					Greater Wenatchee Irrigation District	Columbia River	44	Douglas	22N	21E			unknown	\$40,000-\$50,000	2000	>10 yrs	unknown	Replace pipeline that is leaking.		MWG 2000 (GWID).	
Brewster Flat Irrigation District	Irrigation District	Brewster Flat Irrigation District	Automation/Irrigation Water Mgmt	49	Okanogan					Brewster Flat Irrigation District	Columbia River	49	Okanogan	30N	24E			unknown	\$18,000	2002	0-5 yrs	unknown	Install SCADA systems; allows for remote monitoring and control of all system components.		Montgomery Water Group. 2002. Brewster Flat Irrigation District Water Conservation Plan.	
Brewster Flat Irrigation District	Irrigation District	Brewster Flat Irrigation District	On-farm Conservation	49	Okanogan					Brewster Flat Irrigation District	Columbia River	49	Okanogan	30N	24E			700	\$5,000	2002	0-5 yrs	unknown	Provide water conservation assistance to District irrigators.		MWG 2002 (BFID).	
Brewster Flat Irrigation District	Irrigation District	Brewster Flat Irrigation District	Storage/Re-reg Reservoirs	49	Okanogan					Brewster Flat Irrigation District	Columbia River	49	Okanogan	30N	24E			unknown	\$200,000	2002	0-5 yrs	unknown	Construct 300,000 gallon capacity reservoir in upper pressure zone adjacent to existing tank.	Reduce pump cycling time, maintain more constant pressure.	MWG 2002 (BFID).	
Roza-Sunnyside Board of Joint Control	Irrigation District	Roza-Sunnyside Board of Joint Control	Automation/Irrigation Water Mgmt	37	Yakima					Sunnyside Valley Irrigation District	Yakima River	37	Yakima	13N	19E			unknown	\$16,974,200	2000	0-5 yrs	unknown	Replace check drop structures in Sunnyside Canal with electric gates, automation, and SCADA systems.		UMA Consultants. 2000. Roza-Sunnyside Board of Joint Control Water Conservation Program Tier One Feasibility Study.	
Roza-Sunnyside Board of Joint Control	Irrigation District	Roza-Sunnyside Board of Joint Control	Storage/Re-reg Reservoirs	37	Yakima					Sunnyside Valley Irrigation District	Yakima River	37	Yakima	13N	19E			29,000	\$15,780,700	2000	0-5 yrs	unknown	Contract three re-regulation reservoirs at Mile 23 (480 ac-ft storage capacity), Mile 37 (336 ac-ft storage capacity), and Mile 58 (491 ac-ft storage capacity) of the main canal.		UMA 2000.	
Roza-Sunnyside Board of Joint Control	Irrigation District	Roza-Sunnyside Board of Joint Control	Other	37	Yakima					Sunnyside Valley Irrigation District	Yakima River	37	Yakima	13N	19E			3,680	\$236,300	2000	0-5 yrs	unknown	Replace hydraulic pump at Mile 59.3.		UMA 2000.	
Roza-Sunnyside Board of Joint Control	Irrigation District	Roza-Sunnyside Board of Joint Control	Lining/Piping	37	Yakima					Sunnyside Valley Irrigation District	Yakima River	37	Yakima	13N	19E			4,026-7,494	\$10,436,000-\$27,139,700	2000	0-5 yrs	unknown	Convert 4-7 open lateral pipe and canal systems to closed pipe systems; 36.3-78 miles to be converted.		UMA 2000.	
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	1450	\$100,000	2006	0-5 yrs	High	Reduce seepage in two lined sections of main canal by sealing all cracks with a relatively new product called Hydrolastic. A total of 3598 feet of lining will be repaired. The project will begin November 6, 2006 and be completed by December 1, 2006. The District is currently loosing over 1,450 acre-feet per year due to seepage.	In short water years, saved water will remain in river storage until needed thereby increasing the length of time junior Districts can deliver water.		

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	590	\$1,000,000	2006	0-5 yrs	High	(2006/2007) Replacing existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems. The existing weir boxes will also be replaced with flow meters. This project entails installing about 8 miles of PVC pipe. The project will start at the end of the 2006 irrigation season and be completed by the beginning of the 2007 irrigation season. The pipe ranges in size from 2 inch to 21 inch. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	400	\$1,200,000	2006	0-5 yrs	High	(2007/2008) Replacing existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems. The existing weir boxes will also be replaced with flow meters. This is a yearly project that entails installing 10 to 12 miles of PVC pipe each year. The yearly piping projects will continue until the entire District is converted to enclosed gravity pressure PVC piped systems. Presently, about 54% of the District has been converted to enclosed conduit systems and the remainder will take about 20 more years to complete at the present rate of conversion. The pipe ranges in size from 2 inch to 24 inch. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	400	\$1,200,000		0-5 yrs	High	(2008/2009) Replacing existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems. The existing weir boxes will also be replaced with flow meters. This is a yearly project that entails installing 10 to 12 miles of PVC pipe each year. The yearly piping projects will continue until the entire District is converted to enclosed gravity pressure PVC piped systems. Presently, about 54% of the District has been converted to enclosed conduit systems and the remainder will take about 20 more years to complete at the present rate of conversion. The pipe ranges in size from 2 inch to 24 inch. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
South Yakima Conservation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	400	\$1,200,000		0-5 yrs	High	(2009/2010) Replacing existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems. The existing weir boxes will also be replaced with flow meters. This is a yearly project that entails installing 10 to 12 miles of PVC pipe each year. The yearly piping projects will continue until the entire District is converted to enclosed gravity pressure PVC piped systems. Presently, about 54% of the District has been converted to enclosed conduit systems and the remainder will take about 20 more years to complete at the present rate of conversion. The pipe ranges in size from 2 inch to 24 inch. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	400	\$1,200,000		0-5 yrs	High	(2010/2011) Replacing existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems. The existing weir boxes will also be replaced with flow meters. This is a yearly project that entails installing 10 to 12 miles of PVC pipe each year. The yearly piping projects will continue until the entire District is converted to enclosed gravity pressure PVC piped systems. Presently, about 54% of the District has been converted to enclosed conduit systems and the remainder will take about 20 more years to complete at the present rate of conversion. The pipe ranges in size from 2 inch to 24 inch. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	600	\$2,000,000	2006	6-10 yrs	High	(2011/2012)Replacing approximately 10 miles of existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems on the high side of the main canal. The existing weir boxes will also be replaced with flow meters. This project will also entail replacing the existing pump facility with a VFD pump system to be able to adjust to variable flow rates as demand changes in the new enclosed system. This project will be a continuation of the yearly effort in converting the District's lateral systems to fully enclosed PVC gravity pressure systems. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	600	\$2,000,000	2006	6-10 yrs	High	(2012/2013)Replacing approximately 10 miles of existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems on the high side of the main canal. The existing weir boxes will also be replaced with flow meters. This project will also entail replacing the existing pump facility with a VFD pump system to be able to adjust to variable flow rates as demand changes in the new enclosed system. This project will be a continuation of the yearly effort in converting the District's lateral systems to fully enclosed PVC gravity pressure systems. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	600	\$2,000,000	2006	6-10 yrs	High	(2013/2014)Replacing approximately 10 miles of existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems on the high side of the main canal. The existing weir boxes will also be replaced with flow meters. This project will also entail replacing the existing pump facility with a VFD pump system to be able to adjust to variable flow rates as demand changes in the new enclosed system. This project will be a continuation of the yearly effort in converting the District's lateral systems to fully enclosed PVC gravity pressure systems. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	600	\$2,000,000	2006	6-10 yrs	High	(2014/2015)Replacing approximately 10 miles of existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems on the high side of the main canal. The existing weir boxes will also be replaced with flow meters. This project will also entail replacing the existing pump facility with a VFD pump system to be able to adjust to variable flow rates as demand changes in the new enclosed system. This project will be a continuation of the yearly effort in converting the District's lateral systems to fully enclosed PVC gravity pressure systems. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Lining/Piping	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	600	\$2,000,000	2006	6-10 yrs	High	(2015/2016)Replacing approximately 10 miles of existing open ditch and concrete piped laterals with fully enclosed gravity pressure PVC pipe systems on the high side of the main canal. The existing weir boxes will also be replaced with flow meters. This project will also entail replacing the existing pump facility with a VFD pump system to be able to adjust to variable flow rates as demand changes in the new enclosed system. This project will be a continuation of the yearly effort in converting the District's lateral systems to fully enclosed PVC gravity pressure systems. The project saves water by eliminating seepage, evaporation, and waste.	Maintenance due to weed control will be reduced. Landowners will be able to take advantage of gravity pressure.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Storage/Re-reg Reservoirs	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	1500	\$10,000,000	2003	0-5 yrs	High	Build a 1,000 acre-ft re-regulation reservoir adjacent to the main canal at the approximate central point of the system. The reservoir will be built at about mile post 56.1 in a draw on the north side of the main canal. Water will be pumped into the reservoir for storage and released under gravity pressure back into the main canal when required for use. The reservoir will greatly enhance the Districts' ability to absorb fluctuations in flow in the main canal. Approximately 55% of the District has been converted to fully enclosed PVC conduit systems which allow landowners to fluxuate their flows during a 24 hour period. Presently these fluctuations are absorbed by carrying extra water in the main canal and using wasteways to dump excess water back to river. The reservoir will reduce the need to dump excess water down wasteways.	Water that normally would be sent down wasteways will be left in the river or in storage for later use. In short water years this will increase the numer of days that the District will be able to deliver water.		
Roza Irrigation District	Irrigation District	Roza Irrigation District	Automation/Irrigation Water Mgmt	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	50	\$187,000	2005	0-5 yrs	High	Replace one check structure and retrofit two existing flashboard check structures with automated langemann gates and add these check structures to the existing SCADA system. This project will cost about \$187,000. The District will recieve a \$40,000 grant from the Bureau of Reclamation. The automated checks will enable the watermaster to make better use of the reaches just upstream of each checkstructure in absorbing fluctuations in the main canal. The automated gates will be installed during the winter of 2006/2007 and be ready for use by the 2007 irrigation season.			



Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Roza Irrigation District	Irrigation District	Roza Irrigation District		37	Yakima					Roza Irrigation District	Yakima River	37		15N	19E	32	Roza I.D Dam	50	\$100,000		0-5 yrs	High	(2007/2008) Retrofit two existing flashboard check structures with automated langemann gates and add these check structures to the SCADA system. The gates will be installed during the winter of 2007/2008.			
Roza Irrigation District	Irrigation District	Roza Irrigation District		37	Yakima					Roza Irrigation District	Yakima River	37		15N	19E	32	Roza I.D Dam	50	\$100,000		0-5 yrs	High	(2008/2009) Retrofit two existing flashboard check structures with automated langemann gates and add these check structures to the SCADA system. The gates will be installed during the winter of 2007/2008.			
Roza Irrigation District	Irrigation District	Roza Irrigation District		37	Yakima					Roza Irrigation District	Yakima River	37		15N	19E	32	Roza I.D Dam	50	\$100,000		0-5 yrs	High	(2009/2010) Retrofit two existing flashboard check structures with automated langemann gates and add these check structures to the SCADA system. The gates will be installed during the winter of 2007/2008.			
Roza Irrigation District	Irrigation District	Roza Irrigation District	On-farm Conservation	37	Yakima					Roza Irrigation District	Yakima River	37	Yakima	15N	19E	32	Roza I.D Dam	10	\$4,000,000		0-5 yrs	High	On-farm loans for conversion from rill to BMP. The Roza-Sunnyside Board of Joint control has relieved a \$4,000,000 low interest loan from the Department of Ecology to be distributed to landowners as low interest loans for on-farm conversion from rill irrigation to a BMP type irrigation method. This is a 4 year project that began in the fall of 2006. The reduction in rill irrigated ground will lead to less sediment getting to the river due to runoff in loose soil.	Landowners are able to take advantage of more efficient irrigation methods and reduce water usage. Long term irrigation operating costs are reduced on-farm with more efficient methods of irrigation methods.		
Selah-Moxee Irrigation District	Irrigation District	Selah-Moxee Irrigation District	Lining/Piping	37	Yakima					Selah-Moxee Irrigation District	Yakima River	37	Yakima	13N	19E			14,809	\$20,472,300	2000	unknown	unknown	Concrete line East Selah Canal and install pressurized pipe; water savings due to reduction in seepage; approximately 6 miles to be lined, 18 miles to be piped.	Reduces fish screening facilities, reduces river bed disturbances for diversion maintenance, improves system reliability, improves public safety, improves water quality.	Selah-Moxee Irrigation District. 2000. Busines Letter to Jim Esget, United States Bureau of Reclamation, Subject: Feasibility Study. September 13, 2000.	
Union Gap Irrigation District	Irrigation District	Union Gap Irrigation District	Lining/Piping	37	Yakima					Union Gap Irrigation District	Yakima River	37	Yakima	13N	19E			7,338	\$30,555,450	1999	unknown	unknown	Construct concrete pipe within existing canal right-of-way, construct booster pump station to pressurize southern area of district; water savings due to decrease in seepage, estimated 8.4 miles of concrete, 15 miles of steel, and 8.8 miles of PVC pipes.	Reduces power costs, improves system reliability and flexibility, improves public safety.	CH2M Hill. 1999. Union Gap Irrigation District Water Conservation Plan.	
	Other Irrigation Entity (ditch company, etc)		Lining/Piping	39	Kittitas						Manastash Creek	39	Kittitas	17N	17E			13,730	\$14,234,000	2002	unknown	unknown	Pipe existing ditches and selected Kittitas Reclamation District laterals with pressurized pipes, also increase on-farm water conservation; water savings due to decrease in seepage and decrease in on-farm water use.	Fish passage conditions improved (four diversions still required on Manastash Creek).	Montgomery Watson Harza. 2002. Water Conservation Study for Manastash Creek Water Users.	One of six alternatives.
Whitestone Reclamation District	Irrigation District		Lining/Piping	49	Okanogan					Whitestone Reclamation District	Toats Coulee Creek	49	Okanogan	38N	25E			25-50/1,000 LF lined	\$2,000-\$5,000/yr	2005	unknown	unknown	Replace concrete lining on canal at locations of excess seepage; water savings due to decrease in seepage.		Montgomery Water Group. 2005. Whitestone Reclamation District Water Conservation Plan.	

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Gardena Farms Irrigation District	Irrigation District		Lining/Piping	32	Walla Walla					Gardena Farms Irrigation District	Walla Walla River	32	Walla Walla	06N	34E			unknown	\$13,176,000-\$24,127,000	2003	unknown	unknown	Pipe existing open channel ditches; water savings due to decrease in seepage; cost estimates based on gravity flow pipe alternative and pressure pipe alternative		Economic and Engineering Services. 2004. Gardena Farms Irrigation District Comprehensive Irrigation District Management Plan.	
Upper Touchet Ditches	Other Irrigation Entity (ditch company, etc)		Lining/Piping	32	Columbia					Upper Touchet Ditches	Touchet River	32	Columbia	09N	38E			706	\$994,000	2005	unknown	unknown	Pipe existing open channel ditch; water savings due to decrease in seepage; estimated 3.5 miles to be piped.		HDR. 2006. Snake River Region Salmon Recovery and Walla Walla Watershed Detailed Implementation Plan.	
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Lining/Piping	38	Yakima	15N	17E	33	Multiple parcels and sections	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		5000	\$13,700,000	2005	6-10 yrs	High	Main Canal Mile 0 to Mile 9. Replace 2 miles of failing wood flumes with large diameter low head pipe. Line 3 miles of existing unlined main canal. Rehabilitation of structures and canal automation.	Water quality will be improve by enclosing more of the main canal. Less chemical would be required for pest control. Conserved water could be put to beneficial use and/or returned to instream flows.	1995 Conservation Plan. 2005 Addendum to Conservation Plan	
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Lining/Piping	39	Yakima	14N	18E	21	Multiple parcels and sections	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		1000	\$1,960,000	2006	0-5 yrs	High	No. 1 Lateral. Pipe first 1.4 miles of No.1 Lateral that serves 4500 acres. Pipe will be the start of a piped conveyance and distribution system to conserve gravity head. Closing the lateral and eliminating tail spills. 2500 acres would benefit from 40 PSI or greater at delivery points.	Water quality will be improve by enclosing more of the lateral. Less chemical would be required for pest control. Conserved water could be put to beneficial use and/or returned to instream flows. On-demand delivery would improve users efficiency and reduce water waste.	2006 Piping/Pressurization Study. 1995 Conservation Plan	
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Lining/Piping	39	Yakima	14N	18E	26	Multiple parcels and sections	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		200	\$509,000	2006	6-10 yrs	Medium	Lower No. 2 Lateral. Replace and upgrade 9,000ft of existing low head concrete pipe to handle gravity head of 40-100 PSI. 1500 acres would benefit from 40 PSI or greater at delivery points.	Water quality will be improve by enclosing more of the lateral. Less chemical would be required for pest control. Conserved water could be put to beneficial use and/or returned to instream flows. On-demand delivery would improve users efficiency and reduce waste of water.	2006 Piping/Pressurization Study. 1995 Conservation Plan	
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Lining/Piping	39	Yakima	14N	18E	34	Multiple parcels and sections	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		1000	\$2,810,000	2006	0-5 yrs	High	No. 1/NPH Lateral. Pipe 5 miles of open canal. Replace 2 miles of failing wood pipe. Upgrade other existing distribution pipes. Part of plan to close laterals to conserve gravity head and eliminate tail spills. 2000 acres would benefit from 40 PSI or greater at delivery points. Phases completed in 2005 & 2006 totaling 1.5 miles not included in other totals.	Water quality will be improve by enclosing more of the lateral. Less chemical would be required for pest control. Conserved water could be put to beneficial use and/or returned to instream flows. On-demand delivery would improve users efficiency and reduce waste of water.	2006 Piping/Pressurization Study. 1995 Conservation Plan	
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Lining/Piping	39	Yakima	14N	18E	14	Multiple parcels and sections	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		1000	\$4,710,000	2006	6-10 yrs	Medium	No. 3 Lateral. Replace 1.1 miles of failing wood flumes with pipe. Pipe 1.7 miles of open canal. Replace 1.1 miles of failing wood pipes. Upgrade other existing distribution pipes. Part of plan to close laterals to conserve gravity head and eliminate tail spills. 2000 acres would benefit from 40 PSI or greater at delivery points.	Water quality will be improve by enclosing more of the lateral. Less chemical would be required for pest control. Conserved water could be put to beneficial use and/or returned to instream flows. On-demand delivery would improve users efficiency and reduce waste of water.	2006 Piping/Pressurization Study. 1995 Conservation Plan	

Table C-3. Irrigation District Conservation Projects Inventory Results

Irrigation District Submitting the Information	Type of Entity who will implement Project	Name of Entity who will implement Project	Type of Project	Location of Project						Location of Diversion or water source								Estimated Water Savings (ac-ft/yr)	Estimated Cost (\$)	Year of Estimated Cost	When Project will be Implemented	Priority of Project by Entity Implementing the Project	Project Description	Description of Secondary Benefits	Citation	Additional Information
				WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details	Irrigation Entity Name	Stream Name	WRIA No.	County	Town-ship	Range	Sect-ion	Additional Details									
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Storage/Re-reg Reservoirs	39	Yakima	14N	18E	21	Multiple parcels	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		8000	\$3,000,000	2006	0-5 yrs	High	Re-Regulation Reservoir. Lined 55 Ac-Ft reservoir to buffer flows coming from the Main Canal at Mile 15 into the piped laterals. Reservoir required to eliminate spills from the ends of the laterals. On demand service would be possible for all district users. Reservoir would include a pump station and automation to maintain flows in the main canal and piped system.	Water quality will be improve by enclosing more of the lateral. Less chemical would be required for pest control. Conserved water could be put to beneficial use and/or returned to instream flows. On-demand delivery would improve users efficiency and reduce waste of water.	2006 Piping/Pressurization Study. 1995 Conservation Plan	
Naches-Selah Irrigation District	Irrigation District	Naches-Selah Irrigation District	Lining/Piping	39	Yakima	14N	18E	19	Multiple parcels and sections	Naches-Selah Irrigation District	Naches River	38	Yakima	15N	16E	35		2000	\$2,500,000	1995	>10 yrs	Low	Main Canal Mile 9 to Mile 15. Line and rehabilitate canal and tunnels.	Water quality will be improve by enclosing the laterals. Less chemical would be required for pest control. Reservoir would be operated to impound treated waters instead of spilling back to rivers and streams. Conserved water could be put to beneficial use and/or returned to instream flows. On-demand delivery would improve users efficiency and reduce waste of water.	1995 Conservation Plan.	

**Table C-4****Water System Summary for the City of Yakima:****City of Yakima****Current (year 2000, unless otherwise specified)**

<i>Service Area Population</i>	93,179
<i># of Connections</i>	18,494
<i>Water Source</i>	Naches River, wells
<i>Current Annual Water Use (AF/yr)</i>	14,385
<i>Residential Use (AF/yr)</i>	4,661
<i>Commercial/Industrial Use (AF/yr)</i>	7,013
<i>Total Accounted for Water (AF/yr)</i>	12,574
<i>Total Unaccounted for Water (AF/yr)</i>	1,811
<i>Percent Unaccounted for Water (%)</i>	13%
<i>Per Capita Water Use (AF/yr)</i>	0.15
<i>Current Total Return Flows (AF/yr)</i>	-
<i>Indirect Return Flows (AF/yr)</i>	-
<i>Direct Return Flows (AF/yr)</i>	-
<i>Current Conservation (AF/yr and/or description)</i>	new source meters, conservation program, leak repair, conservation pricing
<i>Current Storage Capacity</i>	28,023

**Projected (year 2025, unless otherwise specified)**

<i>Service Area Population</i>	142,404    year 2020
<i># of Connections</i>	-
<i>Water Source</i>	projected new well plus 2 future ASR wells
<i>Projected Annual Water Use (AF/yr)</i>	20,401
<i>Residential Use (AF/yr)</i>	-
<i>Commercial/Industrial Use (AF/yr)</i>	-
<i>Total Accounted for Water (AF/yr)</i>	-
<i>Total Unaccounted for Water (AF/yr)</i>	-
<i>Percent Unaccounted for Water (%)</i>	-
<i>Per Capita water Use (AF/yr)</i>	-
<i>Projected Total Return Flows (AF/yr)</i>	-
<i>Indirect Return Flows (AF/yr)</i>	-
<i>Direct Return Flows (AF/yr)</i>	-
<i>Projected Conservation (AF/yr and/or description)</i>	possible reuse water applications, ASR
<i>Projected Storage Capacity</i>	39,232

**Table C-4****Water System Summary for the City of Chelan:****City of Chelan****Current (year 2000, unless otherwise specified)**

Service Area Population	3,331	
# of Connections	1777 (2634 ERUs)	
Water Source	Lake Chelan	
Current Annual Water Use (AF/yr)	1,364	
Residential Use (AF/yr)	872	
Commercial/Industrial Use (AF/yr)	266	
Total Accounted for Water (AF/yr)	1569	
Total Unaccounted for Water (AF/yr)	205	
Percent Unaccounted for Water (%)	15%	
Per Capita Water Use (AF/yr)	0.41	
Current Total Return Flows (AF/yr)	-	
Indirect Return Flows (AF/yr)	-	
Direct Return Flows (AF/yr)	-	
Current Conservation (AF/yr and/or description)	13	1.0%
Current Storage Capacity	4,283	

**Projected (year 2021, unless otherwise specified)**

Service Area Population	6547	
# of Connections	5664	ERUs, not connections
Water Source	-	
Projected Annual Water Use (AF/yr)	2,939	
Residential Use (AF/yr)	-	
Commercial/Industrial Use (AF/yr)	-	
Total Accounted for Water (AF/yr)	-	
Total Unaccounted for Water (AF/yr)	-	
Percent Unaccounted for Water (%)	5-10%	
Per Capita Water Use (AF/yr)	0.45	
Projected Total Return Flows (AF/yr)	-	
Indirect Return Flows (AF/yr)	-	
Direct Return Flows (AF/yr)	-	
Projected Conservation (AF/yr and/or description)	public education, rate surcharges, goal billing	
Projected Storage Capacity	11209	



**Table C-4**

Water System Summary for the City of Wenatchee, Regional Wenatchee, E Wenatchee:

**City of Wenatchee****Current (year 2001/2002, unless otherwise specified)**

<i>Service Area Population</i>	23,244
<i># of Connections</i>	7,199
<i>Water Source</i>	Columbia River indirectly through GW pumping
<i>Current Annual Water Use (AF/yr)</i>	5,104
<i>Residential Use (AF/yr)</i>	-
<i>Commercial/Industrial Use (AF/yr)</i>	-
<i>Total Accounted for Water (AF/yr)</i>	234
<i>Total Unaccounted for Water (AF/yr)</i>	-
<i>Percent Unaccounted for Water (%)</i>	14.1
<i>Per Capita Water Use (AF/yr)</i>	0.22
<i>Current Total Return Flows (AF/yr)</i>	-
<i>Indirect Return Flows (AF/yr)</i>	-
<i>Direct Return Flows (AF/yr)</i>	-
<i>Current Conservation (AF/yr and/or description)</i>	-
<i>Current Storage Capacity</i>	17,432

**Projected (year XX, unless otherwise specified)**

<i>Service Area Population</i>	-
<i># of Connections</i>	-
<i>Water Source</i>	-
<i>Projected Annual Water Use (AF/yr)</i>	-
<i>Residential Use (AF/yr)</i>	-
<i>Commercial/Industrial Use (AF/yr)</i>	-
<i>Total Accounted for Water (AF/yr)</i>	-
<i>Total Unaccounted for Water (AF/yr)</i>	-
<i>Percent Unaccounted for Water (%)</i>	-
<i>Per Capita Water Use (AF/yr)</i>	-
<i>Projected Total Return Flows (AF/yr)</i>	-
<i>Indirect Return Flows (AF/yr)</i>	-
<i>Direct Return Flows (AF/yr)</i>	-
<i>Projected Conservation (AF/yr and/or description)</i>	-
<i>Projected Storage Capacity</i>	17,432

**Table C-4**

Water System Summary for the City of Wenatchee, Regional Wenatchee, E Wenatchee:

**Wenatchee Regional (including Wenatchee, E. Wenatchee WD and Chelan County PUD)****Current (year 2001/2002, unless otherwise specified)****EWWD**

Service Area Population	55,416	23,566	year 2000
# of Connections	-		
Water Source	-		
Current Annual Water Use (AF/yr)	10,516	3,824	
Residential Use (AF/yr)	-		
Commercial/Industrial Use (AF/yr)	-		
Total Accounted for Water (AF/yr)	-		
Total Unaccounted for Water (AF/yr)	-		
Percent Unaccounted for Water (%)	-		
Per Capita Water Use (AF/yr)	-		
Current Total Return Flows (AF/yr)	-		
Indirect Return Flows (AF/yr)	-		
Direct Return Flows (AF/yr)	-		
Current Conservation (AF/yr and/or description)	-		
Current Storage Capacity	15,879	489	

**Projected (year 2025, unless otherwise specified)**

Service Area Population	91,930		
# of Connections	-		
Water Source	-		
Projected Annual Water Use (AF/yr)	17,499	ERU-based	
Residential Use (AF/yr)	-		
Commercial/Industrial Use (AF/yr)	-		
Total Accounted for Water (AF/yr)	-		
Total Unaccounted for Water (AF/yr)	-		
Percent Unaccounted for Water (%)	-		
Per Capita Water Use (AF/yr)	-		
Projected Total Return Flows (AF/yr)	-		
Indirect Return Flows (AF/yr)	-		
Direct Return Flows (AF/yr)	-		
Projected Conservation (AF/yr and/or description)	4% conservation by 2008		
Projected Storage Capacity	-		

**Table C-4**

Water System Summary for the City of Wenatchee, Regional Wenatchee, E Wenatchee:

**East Wenatchee****Current (year 2005, unless otherwise specified)**

<i>Service Area Population</i>	23,566	
<i># of Connections</i>	8,075	
<i>Water Source</i>	wells	
<i>Current Annual Water Use (AF/yr)</i>	3,735	
<i>Residential Use (AF/yr)</i>		
<i>Commercial/Industrial Use (AF/yr)</i>		
<i>Total Accounted for Water (AF/yr)</i>	3,548	
<i>Total Unaccounted for Water (AF/yr)</i>	186	
<i>Percent Unaccounted for Water (%)</i>	5%	
<i>Per Capita Water Use (AF/yr)</i>	0.16	
<i>Current Total Return Flows (AF/yr)</i>		
<i>Indirect Return Flows (AF/yr)</i>		
<i>Direct Return Flows (AF/yr)</i>		
<i>Current Conservation (AF/yr and/or description)</i>	3	
<i>Current Storage Capacity</i>	19	includes equalizing flow, operational flow, standby flow
<b>Projected (year XX, unless otherwise specified)</b>		
<i>Service Area Population</i>	39,496	
<i># of Connections</i>		
<i>Water Source</i>		
<i>Projected Annual Water Use (AF/yr)</i>	6,066	
<i>Residential Use (AF/yr)</i>		
<i>Commercial/Industrial Use (AF/yr)</i>		
<i>Total Accounted for Water (AF/yr)</i>		
<i>Total Unaccounted for Water (AF/yr)</i>		
<i>Percent Unaccounted for Water (%)</i>	-	
<i>Per Capita Water Use (AF/yr)</i>	0.15	
<i>Projected Total Return Flows (AF/yr)</i>		
<i>Indirect Return Flows (AF/yr)</i>		
<i>Direct Return Flows (AF/yr)</i>		
<i>Projected Conservation (AF/yr and/or description)</i>		
<i>Projected Storage Capacity</i>		

**Table C-4****Water System Summary for the Quad Cities of:**

Kennewick  
West Richland

**Kennewick****Current (year 2004, unless otherwise specified)**

<i>Service Area Population</i>	64,144
<i># of Connections</i>	19,345
<i>Water Source</i>	Yakima River, Columbia River, wells
<i>Current Annual Water Use (AF/yr)</i>	11,475
<i>Residential Use (AF/yr)</i>	6,592
<i>Commercial/Industrial Use (AF/yr)</i>	3,145
<i>Total Accounted for Water (AF/yr)</i>	10,531
<i>Total Unaccounted for Water (AF/yr)</i>	944
<i>Percent Unaccounted for Water (%)</i>	8.2
<i>Per Capita Water Use (AF/yr)</i>	0.18
<i>Current Total Return Flows (AF/yr)</i>	7,712
<i>Indirect Return Flows (AF/yr)</i>	1,138
<i>Direct Return Flows (AF/yr)</i>	6,574
<i>Current Conservation (AF/yr and/or description)</i>	.096      quantified customer conservation measures
<i>Current Storage Capacity</i>	15,693      water right from Table F-1

**Projected (year XX, unless otherwise specified)**

<i>Service Area Population</i>	-
<i># of Connections</i>	-
<i>Water Source</i>	Same as Current
<i>Projected Annual Water Use (AF/yr)</i>	-
<i>Residential Use (AF/yr)</i>	-
<i>Commercial/Industrial Use (AF/yr)</i>	-
<i>Total Accounted for Water (AF/yr)</i>	-
<i>Total Unaccounted for Water (AF/yr)</i>	-
<i>Percent Unaccounted for Water (%)</i>	-
<i>Per capita Water Use (AF/yr)</i>	-
<i>Projected Conservation</i>	Customer education, data collection, 10% leak detection, source metering replacement and improvement
<i>Projected Total Return Flows (AF/yr)</i>	-
<i>Indirect Return Flows (AF/yr)</i>	-
<i>Direct Return Flows (AF/yr)</i>	-
<i>Projected Conservation (AF/yr and/or description)</i>	-
<i>Projected Storage Capacity</i>	-

**Table C-4****Water System Summary for the Quad Cities of:**

Kennewick  
West Richland

**Pasco****Current (year 2004, unless otherwise specified)**

<i>Service Area Population</i>	43,400
<i># of Connections</i>	12,555
<i>Water Source</i>	Columbia River, wells
<i>Current Annual Water Use (AF/yr)</i>	11,819
<i>Residential Use (AF/yr)</i>	5,398
<i>Commercial/Industrial Use (AF/yr)</i>	4,037
<i>Total Accounted for Water (AF/yr)</i>	11,285
<i>Total Unaccounted for Water (AF/yr)</i>	534
<i>Percent Unaccounted for Water (%)</i>	5.0
<i>Per Capita Water Use (AF/yr)</i>	0.27
<i>Current Total Return Flows (AF/yr)</i>	5,661
<i>Indirect Return Flows (AF/yr)</i>	582
<i>Direct Return Flows (AF/yr)</i>	5,079

*Current Conservation (AF/yr and/or description)*

*Current Storage Capacity*

-  
7,622 water right from Table F-1

**Projected (year XX, unless otherwise specified)**

<i>Service Area Population</i>	-
<i># of Connections</i>	-
<i>Water Source</i>	Same as Current
<i>Projected Annual Water Use (AF/yr)</i>	-
<i>Residential Use (AF/yr)</i>	-
<i>Commercial/Industrial Use (AF/yr)</i>	-
<i>Total Accounted for Water (AF/yr)</i>	-
<i>Total Unaccounted for Water (AF/yr)</i>	-
<i>Percent Unaccounted for Water (%)</i>	-
<i>Per capita Water Use (AF/yr)</i>	-

*Projected Conservation*

*Projected Total Return Flows (AF/yr)*

*Indirect Return Flows (AF/yr)*

*Direct Return Flows (AF/yr)*

*Projected Conservation (AF/yr and/or description)*

*Projected Storage Capacity*

-  
-  
-  
-  
-  
-  
-



**Table C-4****Water System Summary for the Quad Cities of:**

Kennewick  
West Richland

**Richland****Current (year 2004, unless otherwise specified)**

<i>Service Area Population</i>	49,059
<i># of Connections</i>	15,366
<i>Water Source</i>	Columbia River, wells
<i>Current Annual Water Use (AF/yr)</i>	22,147
<i>Residential Use (AF/yr)</i>	10,342
<i>Commercial/Industrial Use (AF/yr)</i>	3,632
<i>Total Accounted for Water (AF/yr)</i>	20,041
<i>Total Unaccounted for Water (AF/yr)</i>	2,105
<i>Percent Unaccounted for Water (%)</i>	9.5
<i>Per Capita Water Use (AF/yr)</i>	0.45
<i>Current Total Return Flows (AF/yr)</i>	11,455
<i>Indirect Return Flows (AF/yr)</i>	4,274
<i>Direct Return Flows (AF/yr)</i>	7,181

*Current Conservation (AF/yr and/or description)*

*Current Storage Capacity*

32,506 water rights from Table F-1

**Projected (year 2029, unless otherwise specified)**

<i>Service Area Population</i>	65,035
<i># of Connections</i>	21,682
<i>Water Source</i>	Same as Current
<i>Projected Annual Water Use (AF/yr)</i>	31,612 population-based
<i>Residential Use -ADD (AF/yr)</i>	13,400
<i>Commercial/Industrial Use -ADD (AF/yr)</i>	6,084
<i>Total Accounted for Water (AF/yr)</i>	28,451
<i>Total Unaccounted for Water (AF/yr)</i>	3,161
<i>Percent Unaccounted for Water (%)</i>	10%
<i>Per capita Water Use (AF/yr)</i>	-
<i>Projected Conservation</i>	-
<i>Projected Total Return Flows (AF/yr)</i>	-
<i>Indirect Return Flows (AF/yr)</i>	-
<i>Direct Return Flows (AF/yr)</i>	-
<i>Projected Conservation (AF/yr and/or description)</i>	-
<i>Projected Storage Capacity</i>	-

**Table C-4****Water System Summary for the Quad Cities of:**

Kennewick  
West Richland

**West Richland****Current (year 2004, unless otherwise specified)**

Service Area Population	9,840	
# of Connections	3,925	
Water Source	6 deep wells	
Current Annual Water Use (AF/yr)	2,796	
Residential Use (AF/yr)	2,131	
Commercial/Industrial Use (AF/yr)	85	
Total Accounted for Water (AF/yr)	2,416	
Total Unaccounted for Water (AF/yr)	381	
Percent Unaccounted for Water (%)	14.0	
Per Capita Water Use (AF/yr)	0.28	
Current Total Return Flows (AF/yr)	649	
Indirect Return Flows (AF/yr)	28	
Direct Return Flows (AF/yr)	621	
Current Conservation (AF/yr and/or description)	-	
Current Storage Capacity (AF/yr)	3,139	water rights from Table F-1

**Projected (year 2030, unless otherwise specified)**

Service Area Population	25,819	
# of Connections	8,800	
Water Source	Same as current	
Projected Annual Water Use (AF/yr)	7,359	
Residential Use -ADD (AF/yr)	6,425	
Commercial/Industrial Use -ADD (AF/yr)	-	
Total Accounted for Water (AF/yr)	6,623	
Total Unaccounted for Water (AF/yr)	735	
Percent Unaccounted for Water (%)	10%	
Per capita Water Use (AF/yr)	0.29	
Projected Conservation	10	
Projected Total Return Flows (AF/yr)	5210	water right amount
Indirect Return Flows (AF/yr)	-	
Direct Return Flows (AF/yr)	-	
Projected Conservation (AF/yr and/or description)	-	
Projected Storage Capacity	-	

**Table C-5. Federal Dams in the Columbia River Basin**

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Adams	Coyote Lake Dam	Tr-Crab Creek	US DOI FS Engineering	F	R	120
Adams	Deadman Lake Dam	Tr-Crab Creek	US DOI FS Engineering	F	R	15
	PEC 22.7 Hydro Power Plant					340
Adams		Potholes East Canal	US DOI BR Pacific NW Region	F	IH	
Adams	Quail Lake Dam	Tr-Lower Crab Creek	US DOI FS Engineering	F	F	45
Adams	Rock Check IV-15	Tr-Crab Creek	US DOI FS Engineering	F	R	90
Adams	Rock Check IV-16	Tr-Crab Creek	US DOI FS Engineering	F	R	40
Benton	McNary Dam	Columbia River	USARMY COE Walla Walla	F	HCNIRS	1,350,000
Benton	Prosser Dam	Yakima River	US DOI BR Pacific NW Region	F	I	350
	Sunheaven Farms Reservoir					100
Benton		Columbia River-Offstream	WA AGR SCS	F	I	
Chelan	Nada Lake Dam	Offstream--Snow Creek	US DOI Fish & Wildlife Service	F	FS	150
Chelan	Upper Snow Lake Dam	Snow Creek	US DOI Fish & Wildlife Service	F	FS	1,100
Columbia	Little Goose Dam	Snake River	USARMY COE Walla Walla	F	HNRIS	565,200
Douglas	Chief Joseph Dam	Columbia River	USARMY COE Seattle	F	HR	593,000
Ferry	Growden Dam	Sherman Creek	WA AGR FS Colville	F	R	80
Ferry	Twin Lakes Dam	Stranger Creek	US DOI Indian Affairs	F	IRS	18,950
Franklin	Eagle Lake Dam	Columbia River-Offstream	US DOI BR Pacific NW Region	F	I	7,933
	EBC 4.6 Hydro Power Plant	Tr-Columbia River-Offstream				50
Franklin		Tr-Columbia River-Offstream	US DOI BR Pacific NW Region	F	HI	
Franklin	Lower Monumental Dam	Snake River	USARMY COE Walla Walla	F	HNRFS	432,000
Franklin	North Scooteney Dike	Columbia River-Offstream	US DOI BR Pacific NW Region	F	I	15,250
Franklin	PEC 1973 Power Plant	Tr-Columbia River	US DOI BR Pacific NW Region	F	IH	150
	PEC 66.0 Hydro Power Plant	Tr-Columbia River-Offstream				6,030
Franklin		Tr-Columbia River-Offstream	US DOI BR Pacific NW Region	F	HI	
Franklin	Scooteney Reservoir Outlet Dam	Columbia River-Offstream	US DOI BR Pacific NW Region	F	I	15,250

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
	WB5 Wasteway					410
Franklin	Detention Dam	Columbia River-Offstream	US DOI BR Pacific NW Region	F	I	
Grant	Banks Lake North Dam	Upper Grand Coulee River	US DOI BR Pacific NW Region	F	CNIH	1,275,000
	Columbia Marsh Unit 1					570
Grant	Dam	Lower Crab Creek	US DOI FS Engineering	F	FR	
	Dry Falls Dam & Powerplant	Upper Grand Coulee River	US DOI BR Pacific NW Region	F	CNIH	1,275,000
Grant	Grand Coulee	Columbia River	US DOI BR Pacific NW Region	F	IHCNR	9,562,000
Grant	Lower Goose Lake Dam	Crab Creek	US DOI BR Pacific NW Region	F	R	1,550
Grant	Moses Lake South Dam	Crab Creek	US DOI BR Pacific NW Region	F	IR	50,000
Grant	OSullivan Dam	Lower Crab Creek	US DOI BR Pacific NW Region	F	CNIH	546,300
Grant	Pinto Dam	Crab Creek-Offstream	US DOI BR Pacific NW Region	F	ICR	76,500
	Quincy Chute Hydro					13
Grant	Power Plant	Tr-Crater Coulee-Offstream	US DOI BR Pacific NW Region	F	HI	
Grant	Soda Lake Dike	Columbia River-Offstream	US DOI BR Pacific NW Region	F	I	10,150
	Summer Falls Hydro					717
Grant	Power Plant	Main Canal to Crab Creek	US DOI BR Pacific NW Region	F	HI	
Kittitas	Cle Elum Dam	Cle Elum River	US DOI BR Pacific NW Region	F	ICR	710,000
Kittitas	Easton Diversion Dam	Yakima River	US DOI BR Pacific NW Region	F	IR	5,000
Kittitas	Kachess Dam	Kachess River	US DOI BR Pacific NW Region	F	ICR	245,000
Kittitas	Keechelus Dam	Yakima River	US DOI BR Pacific NW Region	F	ICR	171,000
Kittitas	Milk Pond Dam	Tr-Milk Creek	WA AGR FS Ellensburg	F	R	93
Kittitas	Roza Diversion Dam	Yakima River	US DOI BR Pacific NW Region	F	IH	100
Klickitat	John Day Dam	Columbia River	USARMY COE Portland	F	HCNR	2,530,000
Klickitat	The Dalles Dam	Columbia River	USARMY COE Portland	F	HNIR	330,000
	Beaver Lake					80
Okanogan	Dam_Okanogan Co.	Beaver Creek	WA AGR FS Supervisor Ok NF	F	R	
Okanogan	Beth Lake Dam	North Fork Beaver Creek	WA AGR FS Supervisor Ok NF	F	RI	120

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Okanogan	Conconully Dam	Salmon Creek	US DOI BR Pacific NW Region	F	ICR	16,670
Okanogan	Owhi Lake Dam	Little Nespelem Creek	US DOI Indian Affairs	F	IRS	6,400
Okanogan	Salmon Lake Dam	Salmon Creek-Offstream	US DOI BR Pacific NW Region	F	ICR	17,280
Okanogan	Spectacle Lake Dike	Okanogan River-Offstream	US DOI BR Pacific NW Region	F	IR	14,080
Pend Oreille	Conger Lake Dam	Trimble Creek	Forest Service or Frank Romero	F	R	150
Pend Oreille	Conger Pond Dam	Trimble Creek	Forest Service or Frank Romero	F	R	35
Pend Oreille	Tacoma Sportsman Pond	Tr-Tacoma Creek	WA AGR FS Spokane	F	R	50
Skamania	Bonneville Dam	Columbia River	USARMY COE Portland	F	HNR	537,000
	Little White Salmon Hatchery Dam	Little White Salmon River	US DOI FS Engineering	F	F	12
Skamania	Trout Creek Dam	Trout Creek	WA AGR FS Gifford Pinchot NF	F	I	180
Spokane	Lower Pine Lake Dam	Rock Creek	US DOI FS Engineering	F	FR	498
Spokane	Middle Pine Dike	Pine Creek Tr-Rock Creek	US DOI FS Engineering	F	FR	48
Spokane	Winslow Dike	Pine Creek Tr-Rock Creek	US DOI FS Engineering	F	FR	52
Stevens	Little Twin Lakes	Camp Creek	WA AGR FS Spokane	F	R	205
Walla Walla	Ice Harbor Dam	Snake River	USARMY COE Walla Walla	F	HNR	376,000
Walla Walla	Mill Creek Dam	Mill Creek-Offstream	USARMY COE Walla Walla	F	C	8,300
Walla Walla	Mill Creek Diversion Dam	Mill Creek	USARMY COE Walla Walla	F	C	12
Whitman	Lower Granite Dam	Snake River	USARMY COE Walla Walla	F	HNRFS	485,000
Yakima	Bumping Lake Dam	Bumping River	US DOI BR Pacific NW Region	F	ICR	37,700
Yakima	Clear Creek Dam	North Fork Tieton River	US DOI BR Pacific NW Region	F	IRF	3,500
Yakima	Sunnyside Diversion Dam	Yakima River	US DOI BR Pacific NW Region	F	I	20
Yakima	Tieton Dam	Tieton River	US DOI BR Pacific NW Region	F	ICR	203,600
Yakima	Wapato Diversion Dam	Yakima River	US DOI BR Pacific NW Region	F	I	10

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other



**Table C-6. Non-Federal Dams in the Columbia River Basin**

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Adams	Adams Conservation Dist. Sediment Pond 2	Bauer Coulee	Adams Conservation Dist	L		17
Adams	Adams Conservation Dist. Sediment Pond 6	Bauer Coulee	Adams Conservation Dist	L		21
Adams	Black Lake Dam	Crab Creek		P	R	250
Adams	Carnation Potato Waste Lagoon System	Tr-Lind Coulee-Offstream	Nestle Brands Food Serv Co	P	Q	900
Adams	Cow Lake Dam	Cow Creek		P	IR	900
Adams	Gering Sediment Retention Pond			P		13
Adams	Harder Dam	Cow Creek		P	IR	25
Adams	McCain Foods Process Water Storage Facilit	Offstream-Kansas Prairie Drain	McCain Foods USA Inc	P		1,683
Adams	McCain Foods Process Water Storage Facilit	Offstream-Kansas Prairie Drain	McCain Foods USA Inc	P		1,683
Adams	Othello Primary Treatment Pond 1A	Tr-Crab Creek-Offstream	OTHELLO CITY	L	Q	200
Adams	Othello Primary Treatment Pond 1B	Tr-Crab Creek-Offstream	OTHELLO CITY	L	Q	200
Adams	Ritzville Wastewater Lagoons		Ritzville City	L		401
Adams	Scabrock Feeders Dam 3	Tr-Crab Creek	Scabrock Feeders Inc	P	Q	95
Adams	Scabrock Feeders Dam 6A	Tr - Crab Creek	Scabrock Feeders Inc	P	S	182
Adams	Scabrock Feeders Dam 6B	Tr - Crab Creek	Scabrock Feeders Inc	P	Q	73
Adams	Scabrock Feeders Dam 6C	Tr - Crab Creek	Scabrock Feeders Inc	P	Q	133
Adams	Schoesler Sediment Retention Dam	PAHA COULEE		P		22
Adams	Sheep Springs Dam	Cow Creek		P	IR	150
Adams	Sprague Lake Dam	Cow Creek		P	IR	15,000

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Adams	Taggares Dam No. 1	Tr-Crab Creek	PJ Taggares Co	P	Q	80
Adams	Taggares Dam No. 2	Tr-Crab Creek	PJ Taggares Co	P	Q	135
Adams	Taggares Dam No. 4	Tr-Crab Creek	PJ Taggares Co	P	Q	24
Asotin	Powe Dam No. 1	Tr-Pintler Creek	DBA Peaceful Valley Rec	P		12
Asotin	Powe Dam No. 2	Pintler Creek-Offstream	DBA Peaceful Valley Rec	P		11
Benton	Ancora Estates Reservoir		ANCORA ESTATES			28
Benton	Badger Mountain Irr Dist Reservoir Expans	Tr-Amon Wasteway	Badger Mountain Irrigation Dist	P		14
Benton	Blair Reservoir Dam	Tr-Columbia River	Kennewick Irrigation District	U	IR	90
Benton	Coffin Sheep Dam No. 3	Four Mile Creek	K2H Farms	P	I	104
Benton	Columbia Park Dam	Tr-Columbia River	Kennewick City Public Works	L		30
Benton	Ely Pump Storage Dam	Columbia River-Offstream		P	I	70
Benton	Frontier Juice Wastewater Lagoon		Washington Frontier Juice Inc	P		15
Benton	Gap Road Reservoir		ZIRKLE FRUIT COMPANY			47
Benton	Horn Rapids Dam	Yakima River	Columbia Irrigation Dist	P		70
Benton	K2H Farms McNary No. 1 Reservoir	Columbia River-Offstream	K2H Farms	P	I	125
Benton	Kennewick No. 1-Aerated Wastewater Lagoon		Kennewick City Public Works	L		132
Benton	Kennewick No. 2 Aerated Wastewater Lagoon		Kennewick City Public Works	L		153
Benton	Kennewick Sewage Lagoon System		Kennewick City Public Works	L		286
Benton	Meadow Springs Dam	Amon Wasteway	Meadow Springs Country Club	P		25

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Benton	Prosser Wastewater Lagoon No. 1	Yakima River-Offstream	PROSSER CITY	L		23
Benton	Prosser Wastewater Lagoon No. 2	Yakima River-Offstream	PROSSER CITY	L		11
Benton	Roza Irrigation District Wasteway 7 Res.	Offstream		P		15
Benton	Sandpiper Farms Leveling Pond Dam	Columbia River-Offstream	Sandpiper Farms Inc	P	I	29
Benton	Seneca Foods Lagoon System Dam	Offstream	TreeTop Inc.	P	Q	163
Benton	Sunheaven Farms - Robert Munn Pond		Sunheaven Farms	P		31
Benton	Sunnyside MP 59.29 Reservoir		Sunnyside Valley Irrigation Dist.			385
Benton	West Richland Sewage Lagoon	Tr-Yakima River-Offstream	WEST RICHLAND CITY	L		12
Benton	West Richland Sewage Lagoon North	Tr-Yakima River-Offstream	WEST RICHLAND CITY	L		75
Benton	WR Smith Storage Pond	Unnamed Creek-Offstream		P		24
Benton	Zintel Canyon Dam	Zintel Canyon	Kennewick City Public Works	L	C	2,300
Chelan	3 Amigos Reservoir					124
Chelan	Antilon Lake Dam	Tr-Johnson Creek	Lake Chelan Reclamation Dist	U	IR	2,900
Chelan	Antilon Saddle Dam No. 1	Antilon Creek	Lake Chelan Reclamation Dist	U	IR	1,780
Chelan	Antilon Saddle Dam No. 2	Antilon Creek	Lake Chelan Reclamation Dist	U	IR	1,780
Chelan	Asamera-Cannon Mine Tailings Dam	Dry Gulch	Asamera Minerals US Inc	P	T	3,300
Chelan	Beehive Dam	Tr-Squilchuck Cr	Beehive Irrigation Dist	P	IR	300

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Chelan	Cammack Dam	Stemilt Creek-Offstream	Cammack Two Orchards Shop	P	I	12
Chelan	Chelan Dam	Chelan River	Chelan Cnty PUD No 1	U	HR	1,059,350
Chelan	Clear Lake Dam	Tr-Stemilt Creek-Offstream	Stemilt Irrigation District	P	IR	63
Chelan	Clear Lake Saddle Dam	Tr-Stemilt Creek-Offstream	Stemilt Irrigation District	P	IR	48
Chelan	Colchuck Lake Saddle Dam	Colchuck Creek	Icicle Irrigation Dist	P	IR	1,570
Chelan	Colchuck Lake Dam	Colchuck Creek	Icicle Irrigation Dist	P	IR	1570
Chelan	Eightmile Lake Outlet Dam	Eightmile Creek	Icicle Irrigation Dist	P	IR	1,610
Chelan	Great Depression Dam		Lappin Forest c/o Stemilt Management	P		38
Chelan	Greenwood Reservoir No. 1 Dam	Middle Creek-Offstream	Steve Shiflett Orchard Inc.	P		23
Chelan	Greenwood Reservoir No. 2 Dam	Middle Creek-Offstream	Steve Shiflett Orchard Inc.	P		17
Chelan	H & H Reservoir Dam No. 1	Tr-Squilchuck Creek		P		50
Chelan	Klonaqua Lake Dam	Tr-French Creek	Icicle Irrigation Dist	P	IR	1,920
Chelan	Lily Lake Dam	Tr-Stemilt Creek	Stemilt Irrigation District	P	IR	254
Chelan	McLaughlin Dam	Tr-Columbia River		P		19
Chelan	Meadow Lake Dam	Tr-Columbia River	Galler Ditch Co	P	IR	600
Chelan	Milo Wood Pond Dam	Little Stemilt Creek-Offstream		P	IR	15
Chelan	Rock Island Dam	Columbia River	Chelan Cnty PUD No 1	U	HR	131,000
Chelan	Rocky Reach	Columbia River	Chelan Cnty PUD No 1	L	HR	390,000
Chelan	Spring Hill Dam	Tr-Stemilt Creek-Offstream	Wenatchee Heights Reclamation District	P	IR	520
Chelan	Spring Hill Saddle Dam	Tr-Stemilt Creek-Offstream	Wenatchee Heights Reclamation District	P	IR	340

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Chelan	Square Lake Dam	Prospect Creek	Peshastin Irrigation Dist	P	IR	500
Chelan	Steffen Brothers Reservoir Dam	Little Stemilt Creek		P		36
Chelan	Stemilt Equalizing Reservoir	Tr-Stemilt Creek-Offstream	Stemilt Irrigation District	P		43
Chelan	Stemilt Main Dam	Orr Creek-Offstream	Stemilt Project, Inc.	P	I	580
Chelan	Stemilt Saddle Dam	Orr Creek-Offstream	Stemilt Irrigation District	P	I	200
Chelan	Three Lakes Reservoir Dam	Tr-Columbia River	Three Lakes Water Association	P	IR	600
Chelan	Tree Top Wastewater Treatment Facility Dam	Wenatchee River-Offstream	Cashmere City	L		11
Chelan	Tumwater Canyon Dam	Wenatchee River	Chelan Cnty PUD No 1	U	F	17
Chelan	Upper Wheeler Dam	Orr Creek	Wenatchee Hwights Reclamation Dist	P	IR	795
Chelan	Upper Wheeler Saddle Dam	Orr Creek	Wenatchee Heights Reclamation District	P	IR	495
Chelan	Wapato Lake Dam	Tr-Lake Chelan	Lake Chelan Reclamation Dist	P	R	3,500
Chelan	Wenatchee Heights Reservoir No. 1 Main Dam	Tr-Stemilt Creek-Offstream	Wenatchee Heights Reclamation District	P	IR	34
Chelan	Wenatchee Heights Reservoir No. 1 Saddle	Middle Creek-Offstream	Wenatchee Heights Reclamation District	P	IR	33
Chelan	Wenatchee Heights Reservoir No. 2 Dam	Orr Creek-Offstream	Wenatchee Heights Reclamation District	P	IR	86
Chelan	Wenatchee Heights Stabilization Pond	Springhill Irrigation Ditch	Wenatchee Heights Reclamation District	P		14
Chelan	Wood Reservoir Dam No. 1	Tr-Stemilt Creek-Offstream	Kyle Mathison	P	IR	73
Chelan	Wood Reservoir Dam No. 2	Tr-Stemilt Creek		P		33

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other



County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Chelan	Zimmerman Pond Dam	Squillchuck Creek-Offstream	Stemilt Mgmt	P	I	9
Clark	Alcoa-Vancouver Works Industrial Lagoons	Offstream	Vanalco Distribution Trust	P		30
Clark	Anderson Dam	Tr-Rock Creek		P	I	197
Clark	Binford Reservoir Dam	Tr-Breeze Creek	Highland Farms	P		30
Clark	Buckbee Dam	Tr-Lockwood Creek		P		10
Clark	Burres Dam	Tr--Lewis R.		P		17
Clark	Clark County Sewage Pond	Tr-Salmon Creek-Offstream	Clark Cnty Sewer Dist No 1	P	Q	28
Clark	Clark Reservoir Dam	Robinson Creek		P	IR	9
Clark	Columbia Tie Mill Pond	Columbia Tie Mill Creek		P	R	21
Clark	Elmer Dam	Tr-Mason Creek		P		20
Clark	Erickson Dam	Tr-Rock Creek	John & Doreen Paradis	P	I	160
Clark	Fargher Lake Dam	Tr-Rock Creek-Offstream	Mint Lake Farms Inc	P	R	66
Clark	Fargher Pond Dam	Tr-Rock Creek		P	IR	15
Clark	Fassett Reservoir Dam	Bitter Creek		P	IR	15
Clark	Green Mountain Pond	Lacamas Creek-Offstream		P		60
Clark	Haight Reservoir Dam	Tr-Columbia River	Webb Moyer Camas City co Camas	P		19
Clark	Harden Reservoir Dam	Tr-East Fork Lewis River		P	IR	10
Clark	Hiim Reservoir Dam	McCormick Creek		P	I	25
Clark	Homola Dam	Basket Creek		P		9
Clark	Jones Dam	Tr-Rock Creek	Farm Credit Services	P	I	100
Clark	L & B Dairy Lagoon	Offstream		P		15
Clark	Lacamas & Round Lakes, Lower Dam	Lacamas Creek	GEORGIA PACIFIC CORPORATION	P	SR	6,800

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Clark	Lacamas & Round Lakes, Upper Dam	Lacamas Creek	GEORGIA PACIFIC CORPORATION	P	SR	6,800
Clark	Lahti Dam	Tr-Lewis River		P		12
Clark	Malar Dam	Tr-Gee Creek		P	I	42
Clark	Merwin Dam	Lewis River	Pacificorp	U	HRF	423,000
Clark	Price Reservoir Dam	Tr-Lackamas Creek		P	IR	24
Clark	Salmon Spring Pond	Salmon Creek-Offstream	WA DFW Engineering	S	F	23
Clark	Tri Mountain Estates Dam	Tr-Mason Creek	Tri-Mountain Estates	P	IR	102
Clark	Warman Waterski Lake Dam	Tr-Lacamas Creek-Offstream		P	R	75
Columbia	Big Four Lake Dam	Tucannon River-Offstream	WA DFW	S		32
Columbia	Blue Lake Dam_Columbia Co.	Tr-Tucannon River	WA DFW	S	R	16
Columbia	Curl Lake Dam	Tucannon River-Offstream	WA DFW	S	R	12
Columbia	Dayton Lumber Co. Mill	Touchet River		P		28
Columbia	Deer Lake Dam	Tucannon River-Offstream	WA DFW	S	R	14
Columbia	Huckleberry Mountain Reservoir	Tr-Touchet River	Huckleberry Mountain Land Co	P	R	25
Columbia	Rainbow Lake Dam	Tucannon River-Offstream	WA DFW	S	R	70
Columbia	Spring Lake Dam	Tr-Tucannon River	WA DFW	S	R	24
Columbia	Watson Lake Dam	Tucannon River-Offstream	WA DFW	S		32
Cowlitz	Yale Dam	Lewis River	Pacificorp	U	HCR	402,000
Cowlitz	Yale Saddle Dam	Lewis River	Pacificorp	U	HCR	129,000
Douglas	Billingsley Dam	Rattlesnake Creek	Billingsley Ranch	P	IC	190
Douglas	Carl Malone Wildlife Pond	East Foster Creek	Foster Creek Conservation Dist	L	FCQ	296
Douglas	Deep Creek Water Control Structure	Deep Creek	Foster Creek Conservation Dist	L		30

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Douglas	Isaak Dam No. 1	Tr-East Foster Creek		P	I	12
Douglas	Isaak Dam No. 2	Tr-East Foster Creek		P	I	12
Douglas	Isaak Dam No. 3	Tr-East Foster Creek		P	I	45
Douglas	Jenkins-Webley Dam	Tr-Columbia River		P	I	1,200
Douglas	Jorgensen Dam	Tr-Columbia River		P	I	120
Douglas	Kohne Dam No. 1	Tr-Douglas Creek		P	I	90
Douglas	Kohne Dam No. 2	Tr-Rattlesnake Creek		P	I	100
Douglas	Lower Rimrock Dam	Mccartenev Creek		P	R	550
Douglas	McKay Dam	Tr-Columbia River		P	C	120
Douglas	Perry Dam No. 1	Tr-East Foster Creek		P	PR	10
Douglas	Perry Dam No. 2	Tr-East Foster Creek		P	PR	15
Douglas	Sims Dam	Tr-Columbia River		P	C	433
Douglas	Waterville Effluent Storage Pond	Tr-Corbaley Creek	Waterville City	L	Q	73
Douglas	Waterville Sewage Treatment Pond	Tr-Douglas Creek-Offstream	Waterville City	L	Q	60
Douglas	Wells Dam	Columbia River	Douglas County T & LS	U	HFRI	500,000
Ferry	Curlew Lake Dam	Curlew Creek		P		3,480
Ferry	Echo Bay Kettle River Tailings Dam Stage 1	N Fork Sanpoil River-Offstream	Echo Bay Minerals Main Office	P	T	8,000
Ferry	Hecla-Day Mine Aspen Tailings Dam	Tr-Granite Creek	Hecla Mining Co	P	T	1,250
Ferry	Hecla-Day Mine Aspen Tailings Saddle Dam	Tr-Granite Creek	Hecla Mining Co	P	T	700
Ferry	Republic Sewage Lagoon No. 1	Sanpoil River-Offstream	REPUBLIC TOWN	L		24
Ferry	Republic Sewage Lagoon No. 2	Sanpoil River-Offstream	REPUBLIC TOWN	L		24

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Ferry	Republic Sewage Lagoon No. 3	Sanpoil River-Offstream	REPUBLIC TOWN	L		41
Franklin	804 Reservoir Dam	Offstream	Mesa Lake Investments	P	I	160
Franklin	Bernsens 810 Reservoir Dam No. 1	Offstream	Jackass Mountain Dev Co	P	I	165
Franklin	Bernsens 810 Reservoir Dam No. 2	Offstream	Jackass Mountain Dev Co	P	I	165
Franklin	Bernsens 810 Reservoir Dam No. 3	Offstream	Jackass Mountain Dev Co	P	I	165
Franklin	Con Agra Foods Main Storage Basin Dam	Tr-Esquatzel Coulee	ConAgra Foods Packaged Foods Co., Inc.	P	Q	123
Franklin	Connell Wastewater Lagoons		Connell City			90
Franklin	Hendricks Lake Dam	Tr-Columbia River	Franklin County	L	IH	2,000
Franklin	Koreis Dam	Tr-Siphon Creek-Offstream		P	I	82
Franklin	Pasco Process Water Reuse Storage Lagoon	Offstream-Columbia R.	Pasco City Public Works Dept	L		231
Franklin	Ringold Pond Dam	Tr-Columbia River	WA DEPT OF FISH & WILDLIFE	S	F	60
Franklin	Ringold Springs Fish Pond	Tr-Columbia River	WA DFW	S	F	55
Franklin	Scooteney Inlet Power Plant	Tr-Columbia River-Offstream	South Columbia Basin Irrigation	U	HI	50
Franklin	Section 34 Re-Regulating Reservoir		Columbia Water Farms LLC			50
Franklin	Snakebite Reservoir Dam	Tr-Columbia River		P	IR	56
Franklin	West Bank Project Reservoir		Flat Top Ranch			162
Garfield	Kessler Dam	Tr-Bear Creek		P	I	50
Grant	Alkali Lake	Tr-Columbia Rive	WA DFW	S	R	2,449

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Grant	Carnation Waste Pond No. 5	Offstream	Carnation Co Field Dept	P		25
Grant	Carnation Waste Pond No. 6	Offstream	Carnation Co Field Dept	P		21
Grant	Carnation Waste Pond No. 7	Offstream	Carnation Co Field Dept	P	Q	99
Grant	Clayton Michaels Wildlife Pond No 2-3	Tr-Crab Creek		P		63
Grant	Clayton Michaels Wildlife Pond No. 1	Tr-Crab Creek		P		80
Grant	Cougar Ranch Reservoir		ZIRKLE FRUIT COMPANY			35
Grant	Coulee City Wastewater Lagoon	Grand Coulee - Offstream	Coulee City Public Works Dept	L		206
Grant	CSC Orchards Reservoir		CSC Partnership	P		23
Grant	Deep Lake Dam	Meadow Creek	WA PARKS	S	R	7,762
Grant	Falls Lake Dam	Tr-Meadow Creek	WA DFW Engineering & Const	S	R	976
Grant	George_City of_Wastewater Treatment Lagoon	Offstream-Columbia	George City	L	Q	80
Grant	Glyn Dam	Tr-Crab Creek	WA DFW	S	R	20
Grant	Higginbotham Reservoir Dam	Tr-Banks Lake		P	IR	145
Grant	Lenice Dam	Tr-Lower Crab Creek	WA DFW	S	R	133
Grant	Lindblad Brothers Dam	Wilson Creek		P	C	80
Grant	Lyon Lake Dam	Tr-Crab Creek	WA DFW	S	R	68
Grant	McDonald Dam	Tr-Crab Creek		P	C	200
Grant	Merry Dam	Tr-Lower Crab Creek	WA DFW	S	R	105
Grant	Moran Slough Dike	Moran Slough	Grant Cnty PUD No 1	U	HR	175

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other



County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Grant	Moses Lake North Dam	Crab Creek	Moses Lake Irrigation & Rehab Dist	P	IR	50,000
Grant	Nestle Potato Effluent Lagoon	Offstream	Nestle Brands Food Serv Co	P	Q	765
Grant	Priest Rapids Dam	Columbia River	Grant Cnty PUD No 1	U	HR	222,600
Grant	Quincy Aerated Lagoon No. 1	Columbia River-Offstream	Quincy Town Clerk	L		10
Grant	Quincy Aerated Lagoon No. 2	Columbia River-Offstream	Quincy Town Clerk	L		10
Grant	Quincy Industrial Wastewater Lagoon System	Tr-West Canal-Offstream	QUINCY CITY	L		19
Grant	Rearing Pond Dike	Moran Slough	Grant Cnty PUD No 1	U	FR	120
Grant	Rocky Ford Creek Dam	Rocky Ford Creek	Moses Lake Irrigation & Rehab Dist	P		40
Grant	Sun Basin Ski Ranch Pond	Tr-Rocky Coulee-Offstream		P		44
Grant	Wanapum Dam	Columbia River	Grant Cnty PUD No 1	U	HR	796,000
Grant	Western Polymer Process Water Lagoon		Western Polymer Corp			49
Kittitas	Brown Boys Effluent Pond		BROWN BOY FEED INC			41
Kittitas	Childress-Winegar Dam	Tr-Morrison Creek		P		11
Kittitas	Knudson Dam	Tr-Yakima River		P		11
Kittitas	Lower Sunlight Lake Dam		Sunlight Waters Country Club	P		12
Kittitas	Porky Pig Farm Dam	Tr-Yakima River-Offstream		P		30
Kittitas	Quilomene Creek Dam	Quilomene Creek		P		10
Kittitas	Reecer Creek Ranch Dam	Currier Creek		P		40

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Kittitas	Reimer Pond Dam	Tr-Yakima River-Offstream		P	I	22
Kittitas	Roslyn Wastewater Lagoon No. 1	Crystal Creek-Offstream	ROSLYN CITY	L		59
Kittitas	Roslyn Wastewater Lagoon No. 2	Crystal Creek-Offstream	ROSLYN CITY	L		58
Kittitas	Roslyn Wastewater Lagoon No. 3	Crystal Creek-Offstream	ROSLYN CITY	L		44
Kittitas	Snoqualmie Pass PUD - Sewage Lagoon No 1	Tr-Lake Keechelus-Offstream	Sonqualmie Pass Utility District	L	Q	54
Kittitas	Tjossem Pond	Wilson Creek-Offstream		P	R	25
Kittitas	Upper Sunlight Lake Dam	Yakima River	Sunlight Waters Country Club	P		42
Klickitat	Condit Dam	White Salmon River	Pacificorp	U	HRF	2,050
Klickitat	Goldendale Wastewater Pond 1A	Tr-Klickitat-Offstream	Goldendale City Hall	L	Q	115
Klickitat	Goldendale Wastewater Pond 1B	Tr-Klickitat-Offstream	Goldendale City Hall	L	Q	114
Klickitat	Goldendale Wastewater Pond 2	Tr-Klickitat-Offstream	Goldendale City Hall	L	Q	116
Klickitat	Goose Springs Dam	Spring Creek		P		10
Klickitat	Graves Dam	Tr-Major Creek		P		13
Klickitat	Johnson Creek Reservoir Dam	Johnson Creek		P	IP	150
Klickitat	Kelly Dam	Spring Creek		P		10
Klickitat	Martin Marietta Sludge Pond	Offstream	Martin Marietta Aluminum Environmental D	P	Q	95
Klickitat	Mill Pond Dam	Outlet Creek		P	SR	130
Klickitat	Mount Adams Orchards Dam No. 1	Tr-Gilmer Creek	Mt Admas Orchards Company	P		13

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Klickitat	Mount Adams Orchards Dam No. 2	Tr-Gilmer Creek	Mt Admas Orchards Company	P		9
Klickitat	San Refugio Ranch Dam	Cozy Nook Creek-Offstream		P	I	126
Klickitat	Schilling Dam	Tr-Mill Creek		P		12
Klickitat	Van Aelst Dam	Tr-Little Klickitat River		P		15
Lincoln	Almira Sewage Lagoon No. 1	Corbett Draw-Offstream	ALMIRA TOWN	L		12
Lincoln	Almira Sewage Lagoon No. 2	Corbett Draw-Offstream	ALMIRA TOWN	L		12
Lincoln	Brown Dam, Lincoln Co.	Tr-Ringwood Lake		P	IR	80
Lincoln	Davenport Sewage Lagoon No. 1	Tr-Cottonwood Creek-Offstream	DAVENPORT CITY	L		48
Lincoln	Davenport Sewage Lagoon No. 2	Tr-Cottonwood Creek-Offstream	DAVENPORT CITY	L		53
Lincoln	Davenport Sewage Lagoon No. 3	Cottonwood Creek-Offstream	DAVENPORT CITY	L	Q	121
Lincoln	Davenport Sewage Lagoon No. 4	Tr-Cottonwood Creek-Offstream	DAVENPORT CITY	L		45
Lincoln	Fishtrap Lake	Fishtrap Creek		P		4,483
Lincoln	Hansen Dam	Goose Creek		P	C	56
Lincoln	Little Falls Dam	Spokane River	Avista Utilities	U	HR	4,250
Lincoln	Little Falls Spillway Dam	Spokane River	WA Water Power Co	P	HR	4,250
Lincoln	Long Lake Dam	Spokane River	WA Water Power Co	U	HR	253,680
Lincoln	Nealy Dam	Tr-Rock Lake		P	I	50
Lincoln	Reisenauer Dam No. 1	Tr-Crab Creek		P		33
Lincoln	Reisenauer Dam No. 2	Tr-Crab Creek		P		28
Lincoln	Rock Lake Dam	Lake Creek-Offstream		P	I	60

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Lincoln	Sprague Wastewater Treatment Lagoons	Offstream	SPRAGUE CITY	L	Q	157
Okanogan	Alder Gold Copper Co Tailings Dam No. 1	Tr-Methow River		P	T	55
Okanogan	Alder Gold Copper Co Tailings Dam No. 2	Tr-Methow River		P	T	50
Okanogan	Blue Lake Dam_Okanogan Co.	Tr-Sinlahekin Creek	WA DFW	S	R	4,416
Okanogan	Bonaparte Lake Dam	Bonaparte Creek	Bonaparte Lake Water Users	P	IR	995
Okanogan	Brown Lake Dam	Tr-Johnson Creek		P	I	150
Okanogan	Campbell Lake Dam	Tr-Beaver Creek	WA DFW	S	R	85
Okanogan	Chalfa Dam	Tr-Benson Creek		P	RI	80
Okanogan	Chewack Canal Diversion Dam	Chewack River	Chewuch Canal Co	P		10
Okanogan	Conconully Sewage Lagoon No. 1	Salmon Creek-Offstream	CONCONULLY TOWN	L		36
Okanogan	Conconully Sewage Lagoon No. 2	Salmon Creek-Offstream	CONCONULLY TOWN	L		16
Okanogan	Conconully Sewage Lagoon No. 3	Salmon Creek Offstream	CONCONULLY TOWN	L		10
Okanogan	Crazy Rapids Reservoir Dam	Okanogan River-Offstream	WA DNR Engineering Div	S		37
Okanogan	Davis Lake Dam_Okanogan Co.	Tr-Bear Creek		P	R	552
Okanogan	Doran's Dam	Tr-Methow River		P	R	16
Okanogan	Enloe Dam	Similkameen River	Okanogan County PUD	U	H	2,400
Okanogan	Fanchers Dam	Antoine Creek	Derek Olma	P	IR	600
Okanogan	Fish Lake Dam	Coulee Creek	WA DFW	S	R	2,815
Okanogan	Gebbers Dam No. 1	Mckie Springs	Gebbers Farms Inc	P		9

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Okanogan	Gebbers Dam No. 4	Tr-Columbia River	Gebbers Farms Inc	P		9
Okanogan	Hawkins Dam	Tr-Benson Creek		P	RI	60
Okanogan	Horse Spring Coulee Dam	Horse Springs Coulee	Whitestone Reclamation Dist	P	I	7,000
Okanogan	Indian Dan Canyon Dam	Indian Dan Canyon Creek	WA DFW	S		65
Okanogan	Leader Lake Dam	Tr-Tallant Creek	Pleasant Valley Water Users Assoc	P	IR	7,681
Okanogan	Leader Lake Saddle Dam	Tr-Tallant Creek	Pleasant Valley Water Users Assoc	P	IR	1,850
Okanogan	Little Green Lake Dam	Tr-Salmon Creek	WA DFW	S	F	730
Okanogan	Milles Lake Dam		WA DFW	S		80
Okanogan	Moccasin Lake Dam	Tr-Thompson Creek-Offstream	Moccasin Lake Ranch	P	IR	490
Okanogan	Osoyoos Lake Control Dam	Okanogan River	WA ECY	S	IR	55,000
Okanogan	Patterson Lake Dam	Rader Creek	Wolf Creek Reclamation District	P	IR	3,800
Okanogan	Pearrygin Lake Dam	Lake Creek	Chewuch Canal Co	P		1,750
Okanogan	Rabel Dam	Tr-Benson Creek		P	R	150
Okanogan	Sasse Reservoir Dam	Tr-Okanogan River	WA DFW	S	R	60
Okanogan	Schallow Lake Dam	Coulee Creek	WA DFW	S	R	76
Okanogan	Sinlahekin Dam No. 1	Sinlahekin Creek	WA DFW Engineering	S	R	333
Okanogan	Sinlahekin Dam No. 2	Sinlahekin Creek	WA DFW Engineering	S	R	82
Okanogan	Sinlahekin Dam No. 3	Sinlahekin Creek	WA DFW Engineering	S	R	593
Okanogan	Stout Reservoir Dam	Tr-Chiliwist Creek		P	RP	86
Okanogan	Sullivan Pond Dam	Tr-Chewack River	WA DFW	S	R	40
Okanogan	Tice Dam	Tr-Beaver Creek-Offstream	Tice Ranch	P		9
Okanogan	Wenner Lake No. 5 Dam	Tr-Benson Creek		P	R	10
Okanogan	Whitestone Lake Dam	Tr-Okanogan River	Whitestone Reclamation Dist	P	RI	2,720

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other



County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Okanogan	Wolley Dam	Tr-Columbia River		P		10
Okanogan	Wright Ponds-West Pond Dam	Tr-Pearrygin Creek		P	RP	30
Pend Oreille	Baker Lake Dam	Tr-Deer Creek		P	IR	61
Pend Oreille	Big Meadow Lake Dam	Meadow Creek		P	R	500
Pend Oreille	Box Canyon Dam	Pend Oreille River	Pend Oreille Cnty Engineering	U	HR	100,000
Pend Oreille	Cedar Creek Reservoir Dam	Cedar Creek	Ione Town City Hall	L	S	25
Pend Oreille	Dahlin Dam	Bracket Creek		P		9
Pend Oreille	Decie Lake Dam	Tr-Little Spokane River	Wells Family Ranch Llc.	P		33
Pend Oreille	Diamond Lake Aeration Lagoon No. 2	Tr-Little Spokane River-Offstr	Diamond Lake Sewer Dist	P	Q	61
Pend Oreille	Diamond Lake Aeration Lagoon No. 3	Tr-Little Spokane River-Offstr	Diamond Lake Sewer Dist	P	Q	61
Pend Oreille	Diamond Lake Sewage Lagoon No. 1	Tr-Little Spokane River-Offstr	Diamond Lake Sewer Dist	P		12
Pend Oreille	Duncan Dam No. 1	Tr-Pend Oreille River		P	IR	150
Pend Oreille	Duncan Dam No. 2	Tr-Pend Oreille River		P	IR	150
Pend Oreille	Elliott Dam	South Fork Small Creek		P	PR	20
Pend Oreille	Flying Goose Ranch - Wetland Dam No. 1	Tr - Pend Oreille River	Bonneville Power Administration	U		100
Pend Oreille	Heater Pond Dam	Tr-Pend Oreille River		P	RP	40
Pend Oreille	Homestead Lake Dam	Tr-Moon Creek		P	R	52
Pend Oreille	Ione Mill Pond	Big Muddy Creek	Vaagen Brothers Lumber	P	R	557
Pend Oreille	Isabelle Lake Dam	Tr-Little Spokane River	Wells Family Ranch Llc.	P		16
Pend Oreille	Kettwig Wildlife Dam	Spring Heel Creek		P	FRS	180
Pend Oreille	Koenig Dam	Tr-Otter Creek		P		35

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Pend Oreille	Little Spokane River Dam	West Branch Little Spokane Rvr	WA DFW	S	R	35
Pend Oreille	Locke Dam	Tr-Pend Oreille River	Pend Oreille County Diking Dist No 3	P	C	1,860
Pend Oreille	Lynda Lake Dam	Tr-Little Spokane River	Wells Family Ranch Llc.	P		17
Pend Oreille	Marney Lake Dam	Tr-Deer Creek	Ron H Rock Et. Al.	P	RI	50
Pend Oreille	Marshall Lake Dam	Marshall Creek	Tom Miller	P	RI	1,919
Pend Oreille	Metaline Falls Wastewater Lagoon No. 3		METALINE FALLS TOWN			10
Pend Oreille	Mountain Meadows Lake Dam	Kent Creek	Pend Oreille Cnty Engineering	L	R	1,000
Pend Oreille	Pend Oreille County PUD Dam	Tr-Pend Oreille River	Pend Oreille Cnty Engineering	U	R	18
Pend Oreille	Pend Oreille Mine - NE Tailings Dam	Offstream, Pend Oreille R.	Cominco American Inc	P	T	4,100
Pend Oreille	Pend Oreille Mine - NW Tailings Dam	Offstream - Pend Oreille R.	Cominco American Inc	P	T	4,100
Pend Oreille	Ponderay Newsprint Mill Settling Lagoon	Pend Oreille River-Offstream	Ponderay Newsprint	P	Q	105
Pend Oreille	Power Lake Dam	North Fork Calispell Creek	Pend Oreille Cnty Engineering	U	H	1,450
Pend Oreille	Seattle City Light Boundary Hydro	Pend Oreille River	Seattle City Light	L	HR	122,000
Pend Oreille	Sullivan Lake Dam	Harvey Creek	Pend Oreille Cnty Engineering	U	HR	47,000
Pend Oreille	Vaagen Mitigation Control Structure	Pend Oreille River-Offstream	Vaagen Brothers Lumber	P		120
Pend Oreille	Willy O Lake Dam	Tr-Pend Oreille River		P		42
Pend Oreille	Woods Lake Dam	Tr-Little Spokane River		P	R	35
Pend Oreille	Yergens & Anselmo Dam No. 1	Tr-Pend Oreille River	Anselimo Living Trust	P	R	51

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Pend Oreille	Yergens & Anselmo Dam No. 2	Tr-Pend Oreille River	Anselimo Living Trust	P		24
Skamania	Berge Reservoir Dam	Tr-Little Wind River	Cominco American Inc	P	IR	34
Skamania	Caldwell Dam	Tr-Washougal River	Clair Caldwell	P	R	15
Skamania	Camp Kwoneesum Dam	Wildboy Creek Tr-Washougal Rvr	Longview Fiber Company	P	R	120
Skamania	Iman Lake Dam		Dolce Skamania Lodge	P		16
Skamania	Little Brush Lake Dam	Le Bong Creek	STEVENSON CITY	L	S	10
Skamania	Swift Dam	Lewis River	Pacificorp	U	HCR	756,000
Skamania	Wind River Logging Co Pond	Tr-Wind River		P	OP	150
Skamania	Woodard (Skamania Landing) Dam	Duncan Creek	Skamania Landing Homeowners Association	P	R	300
Spokane	Chapman Lake Dam	Rock Creek	Chapman Lake Resort Inc	P	R	8,000
Spokane	Chapman Lake Saddle Dam	Rock Creek	Chapman Lake Resort Inc	P	R	8000
Spokane	Deer Park Sewage Treatment Lagoon	Tr-Dragoon Creek-Offstream	DEER PARK CITY	L		25
Spokane	Deer Park Waste Water Storage Lagoon	Tr-Dragoon Creek-Offstream	DEER PARK CITY	L		205
Spokane	Deer Park Wastewater Storage Lagoon No. 3	Tr-Dragoon Creek	DEER PARK CITY	L		259
Spokane	Deruwe Dam	Saltese Creek		P		39
Spokane	Dosser Reservoir Dam	Quinnamose Creek	Charles Williams	P	I	55
Spokane	Dragoon Lake Dam	Dragoon Creek	North Park Dev Co	P	R	157
Spokane	Emtman Dam No. 2	Tr-Minnie Creek		P		24
Spokane	Fairfield Sewage Lagoon No. 1	Rattler Run Creek-Offstream	Fairfield City	L		18

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Spokane	Fairfield Sewage Lagoon No. 2	Rattler Run Creek-Offstream	Fairfield City	L		12
Spokane	Fairfield Waste Treatment Aerated Lagoon		Fairfield City			14
Spokane	Gatlin Dam No. 2	Dartford Creek-Offstream		P		50
Spokane	Gatlin Dam No. 3	Dartford Creek-Offstream		P		50
Spokane	Hog Lake Dam	Fishtrap Creek	WA DFW Engineering	S	R	540
Spokane	Martin Dam	Tr-Deadman Creek		P	I	55
Spokane	Monroe Street Dam	Spokane River	WA Water Power Co	U	H	68
Spokane	Morisson Dam	Saltese Creek	Morrison Cattle Co	P		50
Spokane	Newman Lake Flood Control Dam	Thompson Creek	Newman Lake Flood Control Zone Dist	P	CR	11,300
Spokane	Nine Mile Dam	Spokane River	WA Water Power Co	U	HR	5,275
Spokane	Reflection Lake North Dam	Sheets Creek	Reflection Lake Homeowners Association	P	R	440
Spokane	Reflection Lake South Dam	Sheets Creek	Reflection Lake Homeowners Association	P	R	570
Spokane	UCA Treatment Lagoon System		UPPER COLUMBIA ACADEMY			28
Spokane	UCA Wastewater Treatment Storage Lagoon		UPPER COLUMBIA ACADEMY			39
Spokane	Upper Falls Dam	Spokane River	WA Water Power Co	U	H	800
Spokane	Upriver Station Control Works	Spokane River	Spokane City	L	H	3,000
Spokane	Wandermere Lake Dam	Tr-Little Spokane River		P	R	70
Spokane	Warner Dam	Thompson Creek-Offstream		P	R	25
Spokane	Williams Dam	Saltese Creek		P		50
Stevens	Beitey Lake Dam	Tr-Colville River	Jerry Beitey	P	R	220

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Stevens	Beryl Baker Dam	Tr-Dragoon Creek		P	R	48
Stevens	Blue Gulch Reservoir Dam	Tr-Columbia River		P	RI	9
Stevens	Boise Cascade Mill Waste Pond	Tr-Columbia River-Offstream	Boise Cascade Corp	P	Q	30
Stevens	Browns Lake Dam	Wrights Creek		P		40
Stevens	Czeglenski Beaver Pond Dam					418
Stevens	Dawn Mines Evaporative Ponds	Offstream- Chamokane Park	Dawn Mining Co	P	T	822
Stevens	Dawn Mines Tailings Pond No. 4	Tr-Chumckane Creek-Offstream	Dawn Mining Co	P	T	1,121
Stevens	D'Hondt Dam	Tr-Stensgar Creek		P	IR	110
Stevens	Fletcher Dam	South Fork Harve		P	I	10
Stevens	Garvey Dam	Truman Wood Creek		P	I	80
Stevens	Hill Lake Dam	Pingston Creek		P	IR	120
Stevens	Horseshoe Lake Dam		Mike Matney			500
Stevens	Keystone Dam	Tr-Cedar Creek		P		31
Stevens	Little Sweden Dam	Tr-Colville River		P	R	200
Stevens	Loon Lake Aeration Lagoon	Tr-Loon Lake-Offstream	Loon Lake Sewer Dist No 4	P		18
Stevens	Loon Lake Control Structure	Tr-Sheep Creek	WA DFW	S	R	5,590
Stevens	Loon Lake Polishing Lagoon	Tr-Loon Lake-Offstream	Loon Lake Sewer Dist No 4	P	Q	41
Stevens	Loon Lake Sewer Dist No. 4 Waste Lagoon No	Offstream	Loon Lake Sewer Dist No 4	L		87
Stevens	Loon Lake Waste Storage Lagoon	Tr-Loon Lake-Offstream	Loon Lake Sewer Dist No 4	P	Q	76

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other



County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Stevens	Madre Mine Tailings Dam E	Alder Creek	Cortez Intl Ltd	P		12
Stevens	Matney Dam	Joe Creek	Mike Matney	P	SR	525
Stevens	May Lake Dam	Tr-Mill Creek	Briscot Limited Partnership	P		15
Stevens	McDowell Lake Dam	Tr-Little Pend Oreille River	WA DFW	S	R	596
Stevens	Meyers Falls Dam	Colville River	WA Water Power Co	U	HR	75
Stevens	Miller Reservoir Dam	Kline Creek-Offstream		P	IR	98
Stevens	Ponderosa Lake Dam	Beaver Creek		P	R	710
Stevens	Rosanna Lake Dam	Tr-Prouty Creek		P		120
Stevens	Serenity Lake Dam	Tr-Colville River	Long Wood Limited Partnership	P	R	270
Stevens	Sherry Lake Dam	Little Pend Oreille River	WA DFW	S	FR	50
Stevens	Snook Lake Dam	Tr-Columbia River	Lantzy Brothers Inc.	P	I	92
Stevens	Sowers Reservoir Dam	Tr-Sheep Creek		P	IR	51
Stevens	Springdale Wastewater Pond System	Offstream-Sheep Creek	SPRINGDALE TOWN	L		78
Stevens	Van Stone Tailings Dam	Offstream	Equinox Resources of Washington Inc	P	T	150
Stevens	Waitts Lake Dam	Waitts Creek	Stevens Cnty PUD No 1	P		600
Stevens	Western Nuclear Tailings Pond	Tr-Spokane River	Spokane Tribe Natural Resources Dept	P	T	1,190
Walla Walla	Blalock Lake Dam	Cold Creek		P		13
Walla Walla	Broetje Main Equalizing Pond		Broetje Orchards			34
Walla Walla	Broetje Mountain Pond Dam		Broetje Orchards			26
Walla Walla	Broetje Orchards Block 92 Dam					54

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O – Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Walla Walla	Flat Top Ranch		Flat Top Ranch	P		52
Walla Walla	Iowa Beef Processors Waste Pond No.1	Columbia River-Offstream	Tyson's Fresh Meats	P	Q	270
Walla Walla	Iowa Beef Processors Wastewater Lagoon	Tr-Columbia River	Tyson's Fresh Meats	P	Q	870
Walla Walla	Pepper Bridge Farms Irrigation Reservoir	Offstream	Pepper Bridge Farms Inc	P		41
Walla Walla	Stiller Dam	Mill Creek-Offstream		P	I	90
Walla Walla	Twin Reservoirs Dam	Tr-Mill Creek-Offstream	Walla Walla City	L	S	46
Whitman	Bennett Pond Dam	Pine Creek		P		10
Whitman	Farmington Sewage Lagoon Dike No. 1	Tr-Pine Creek-Offstream	FARMINGTON TOWN	L		13
Whitman	Farmington Sewage Lagoon Dike No. 2	Tr-Pine Creek-Offstream	FARMINGTON TOWN	L		10
Whitman	Horn School Rest Area Sewage Lagoon		WA DOT	S		22
Whitman	Uniontown Sewage Pond No. 1	Union Flat Creek-Offstream	Uniontown City	L		12
Whitman	Uniontown Sewage Pond No. 2	Union Flat Creek-Offstream	Uniontown City	L		15
Whitman	Uniontown Sewage Pond No. 3	Union Flat Creek-Offstream	Uniontown City	L		42
Yakima	Berghoff Dam			P		20
Yakima	Bosma Dairy Waste Pond Dam	Offstream		P		14
Yakima	Byron Ponds Dam	Tr-Yakima River	WA DFW	S	R	200
Yakima	Callison Dam	Tr-Yakima River	Pride Packing	P	I	15
Yakima	Grandview Wastewater Lagoon Dam	Offstream	Grandview City Hall	L	Q	85
Yakima	Hornby Dairy Waste Pond No. 3	Tr-Sulphur Creek-Offstream		P		19

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Yakima	Marvin Eberle Dam	Tr-Sunnyside Canal		P	I	30
Yakima	National Food Corp. Orchard Reservoir Dam	Roza Canal-Offstream	National Food Corp	P		40
Yakima	Parker Reservoir Dam	Tr-Wide Hollow Creek		P	IR	54
Yakima	Roy Dam	Tr-Yakima River		P		10
Yakima	Roy Farms Irrigation Pond	Tr-Siphon Creek-Offstream		P		9
Yakima	Roza Hills Vinyard Dam	Tr-Rosa Canal	Pleasant Valley Farms	P	I	24
Yakima	Roza Wasteway 6 Reregulation Reservoir	Snipes Creek	Roza Irrigation Dist	P	I	150
Yakima	Selah Aerated Lagoon	Tr-Yakima River-Offstream	Selah City Public Works Dept	L		21
Yakima	Stevenson Dam	Tr-Wide Hollow Creek		P		27
Yakima	Sunnyside Industrial Wastewater Lagoon	Tr-Yakima River	Sunnyside Port	L	Q	604
Yakima	Tieton Wastewater Lagoon No. 1	Cowiche Creek-Offstream	TIETON TOWN	L		12
Yakima	Tieton Wastewater Lagoon No. 2	Cowiche Creek-Offstream	TIETON TOWN	L		25
Yakima	Tieton Wastewater Lagoon No. 3	Cowiche Creek-Offstream	TIETON TOWN	L		17
Yakima	Tieton Wastewater Lagoon No. 4	Cowiche Creek-Offstream	TIETON TOWN	L		10
Yakima	Tree Top (Selah) Wastewater Lagoon	Tr-Yakima River	Tree Top Inc	P		210
Yakima	Veldhuis Animal Waste Pond	Offstream		P		46
Yakima	Wenas Dam	Wenas Creek	Wenas Irrigation Dist	P	IR	5,500
Yakima	Wyna Dam	Tr-Toppenish Creek		P	IP	25
Yakima	Marvin Eberle Dam	Tr-Sunnyside Canal		P	I	30

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

County	Dam	River	Owner	Type	Purpose <sup>1</sup>	Max Storage (acre-feet)
Spokane	Fairfield Sewage Lagoon No. 2	Rattler Run Creek-Offstream	Fairfield City	L		12
Spokane	Fairfield Waste Treatment Aerated Lagoon		Fairfield City			14
Spokane	Gatlin Dam No. 2	Dartford Creek-Offstream		P		50
Spokane	Gatlin Dam No. 3	Dartford Creek-Offstream		P		50
Spokane	Hog Lake Dam	Fishtrap Creek	WA DFW Engineering	S	R	540
Spokane	Martin Dam	Tr-Deadman Creek		P	I	55
Spokane	Monroe Street Dam	Spokane River	WA Water Power Co	U	H	68
Spokane	Morisson Dam	Saltese Creek	Morrison Cattle Co	P		50
Spokane	Newman Lake Flood Control Dam	Thompson Creek	Newman Lake Flood Control Zone Dist	P	CR	11,300
Spokane	Nine Mile Dam	Spokane River	WA Water Power Co	U	HR	5,275
Spokane	Reflection Lake North Dam	Sheets Creek	Reflection Lake Homeowners Association	P	R	440
Spokane	Reflection Lake South Dam	Sheets Creek	Reflection Lake Homeowners Association	P	R	570
Spokane	UCA Treatment Lagoon System		UPPER COLUMBIA ACADEMY			28
Spokane	UCA Wastewater Treatment Storage Lagoon		UPPER COLUMBIA ACADEMY			39
Spokane	Upper Falls Dam	Spokane River	WA Water Power Co	U	H	800
Spokane	Upriver Station Control Works	Spokane River	Spokane City	L	H	3,000
Spokane	Wandermere Lake Dam	Tr-Little Spokane River		P	R	70
Spokane	Warner Dam	Thompson Creek-Offstream		P	R	25
Spokane	Williams Dam	Saltese Creek		P		50
Stevens	Beitey Lake Dam	Tr-Colville River	Jerry Beitey	P	R	220

**NOTES**

<sup>1</sup> I - Irrigation; H – Hydroelectric; C – Flood Control & Stormwater; N – Navigation; S – Water Supply; R – Recreation; P – Small Farm Pond; F – Fish & Wildlife; D – Debris Control; T – Mine Tailings; Q – Water Quality; O - Other

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
32	Storage	ASR		878.02		Storage	ASR	City of Walla Walla ASR program. No year is given for future storage increase; total storage in future will be 1535 af/yr	656.98	Proposed	HDR/EES, Inc. Walla Walla Watershed Pla	Units reported in Plan were in MG/Y, converted to AF/Y. File: WRIA32_6.pdf
32						Storage	SAR	Walla Walla county has identified 2 sites for pilot testing. No quantity for SAR is provided in Plan.		Proposed	HDR/EES, Inc. Walla Walla Watershed Pla	Units reported in Plan were in MG/Y, converted to AF/Y. File: WRIA32_6.pdf
32						Storage	Reservoir	Explore the potential of using Bennington Lake as a storage reservoir.		2015	HDR/EES, Inc. Walla Walla Watershed Pla	No quantity provided. File WRIA32_8.pdf.
32						Storage		Support new storage on Pine Creek in Oregon		2015	HDR/EES, Inc. Walla Walla Watershed Pla	No quantity provided. File WRIA32_9.pdf.
34						Storage			8,340		Golder Associates Inc. Phase II - Level 1	Application for new water right. File WRIA34_1.pdf. No watershed plan or storage report available yet.
35						Storage	PC6	Implement pilot project to encourage beaver activity to improve storage.			HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, groundwater. File WRIA35_13.pdf.
35						Storage	TR13	Identify wetland storage projects.			HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, groundwater. File WRIA35_14.pdf.
37						Storage	Black Rock Alternative	Construct a pumping plant, dam, and powerplant to pump water from the Columbia River to a newly constructed reservoir.	1,300,000	Proposed	United States Bureau of Reclamation. 2004. Summary Report Appraisal Assessment of the Black Rock Alternative. December 2004.	One of two storage alternatives reviewed for the area, 3 options for this alternative ranging from 800,000 AF storage to 1,300,000 AF storage.
38	Storage	Bumping Reservoir		33,970							Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
38	Storage	Rimrock Reservoir		198,000							Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
39	Storage	Keechelus Reservoir		157,800							Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	Dam currently operated with maximum capacity of 140,920 AF due to safety concerns.
39	Storage	Kachess Reservoir		239,000							Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
39	Storage	Cle Elum Reservoir		436,900							Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
37						Storage	Wymer Dam and Reservoir	WRIAs 37, 38, 39 Construct two rockfill embankments and a pumping plant on the Yakima River to the reservoir.	174,000	Proposed	United States Bureau of Reclamation. 2006. Yakima River Basin Storage Alternatives Appraisal Assessment. May 2006.	One of two storage alternatives reviewed for the area.
45						Storage	CMZ Project 6	Reconnect an oxbow/former channel using a bridge or large culverts which would increase the floodplain capacity.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project 9	Reconnect a cattail marsh located in a farmed area using an at-grade culvert through the railroad embankment to increase floodplain capacity		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	



Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
45						Storage	CMZ Project 10	Construct a surface connection to the river from the existing pond to increase floodplain capacity on a site that contains native riparian forest, an open-water wetland and several former back channels.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project 11	Create additional open water/backchannel habitat to increase the floodplain capacity of a floodplain hardwood forest between SR2 and the river which currently floods during 2 yr+ events.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project 15	Pull back or breach the levee to restore back-channel access on the site of a former floodplain that has an open water wetland. Plant riparian vegetation to maintain recreational river access.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Cashmere Wastewater Lagoon	Replace the wastewater lagoon with a more compact wastewater treatment facility and use the lagoon as a stormwater holding pond, possibly using it to recharge groundwater	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Derby Canyon Off-channel Reservoir	Construct small off-channel reservoirs on available private land to hold water diverted in the winter or spring months and release the water in the summer months.	20	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity 1-20 AF
45						Storage	Williams Canyon Off-channel Reservoir	Construct small off-channel reservoirs on available private land or National Forest land to hold water diverted in the winter or spring months and release the water in the summer months.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-50 AF
45						Storage	Olalla Canyon Off-channel Reservoir	Construct small off-channel reservoirs on available private land or National Forest land to hold water diverted in the winter or spring months and release the water in the summer months.	20	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-20 AF
45						Storage	Nahahum Canyon Off-channel Reservoir	Construct small off-channel reservoirs on available private land to hold water diverted in the winter or spring months and release the water in the summer months.	20	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-20 AF
45						Storage	Peshastin Recharge Basin	Divert water from the Wenatchee River to a recharge basin that would be constructed near the Wenatchee River to augment groundwater supplies.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	East Fork Mission Creek Reservoir	Divert water to an existing depression on National Forest land.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF

Table C-7

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
45						Storage	Upper Reach Mission Creek Lake	Divert water to an existing lake on National Forest land.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Little Camas Creek Reservoir	Instream reservoir located on National Forest land.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Headcut Repair on Peavine Canyon, Poison Canyon, Sand Creek	Install check structures in the creeks to increase the bed level, thereby increasing bank storage along the creek.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Cashmere Recharge Basin	Divert water in the winter or spring when flow is sufficient to a recharge basin located on privately owned land in the Lower Mission Creek area to augment groundwater supplies.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Upper Camas Creek Lakes	Divert water from Camas Creek to an off-channel reservoir located on private land at two small lakes in the upper reaches of the Camas Creek basin at about elevation 2,960 ft.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Camas Land Off-channel Reservoir	Divert water from Camas Creek to an off-channel reservoir located on private land owned by a church camp at about elevation 2,900 ft.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Camas Land Groundwater Level Management	Remove or block drainage ditches that are located on privately owned land or use other methods to increase groundwater levels in Camas Prairie.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Campbell Off-channel Reservoir	Water from the existing Tandy pipeline and collected from the canyon can be used to supply an off-channel reservoir in a canyon on the west side of the Peshastin Creek valley.	1000	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 500-1,000 AF
45						Storage	Hansel Lane Pond	Divert water to expand an existing pond located on privately owned land at about elevation 1640 ft to provide additional storage.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Hansel Creek Off-channel Reservoir	Divert water from Peshastin Creek or Hansel Creek to an off-channel reservoir located on privately owned land at about elevation 1,760 ft.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Ingalls Creek Off-channel Reservoir	Divert water to an off-channel reservoir on private land.	300	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 100-300 AF
45						Storage	Tronsen Creek Off-channel Reservoir	Divert water to an off-channel reservoir on National Forest land.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Negro Creek Instream Reservoir	Instream reservoir located on National Forest land.	500	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 100-500 AF

Table C-7

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
45						Storage	Headcut Repairs to Ruby Creek, Lower Camas Creek, Mill Creek, Larsen Creek	Install check structures in the creeks to increase the bed level, thereby increasing bank storage along the creek.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Eagle Creek Tributary Lakes	Divert water to two small existing lakes or ponds on National Forest land.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Eagle Creek SW Tributary Lake	Divert water to two small existing lakes on National Forest land.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	East Van Creek Off-channel Reservoir	Divert water to two small existing lakes or ponds on National Forest land.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Small off-channel reservoirs in Chumstick Creek, Little Chumstick Creek and Eagle Creek valleys	Divert water during winter or spring to reservoirs which would be constructed on private land (where land is available) near Chumstick Creek. The water would be released in the summer.	30	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 acre-feet each
45						Storage	CMZ Project 19–Irwin Property	Construct a backchannel on an undeveloped floodplain across from the Leavenworth city park to increase storage capacity in the floodplain.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project 20	Provide additional backchannel habitat and increase floodplain storage on a particularly active portion of the floodplain which has one active side channel.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Ski Hill Wetlands/Storm water Storage or recharge	The City of Leavenworth would like to study a project that would help control runoff from the Ski Hill area, and store the water in constructed wetlands and recharge it where possible. The project would be located on city or currently privately owned land.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Alpine Lakes Optimization	Review the potential to optimize the discharge from the high Alpine Lakes (Snow, Nada, Colchuck, Square, Kionaqua, Eightmile) to retain water longer and provide more flow in late summer and early fall.	5500	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Total Lake Volume: 5500 AF
45						Storage	Icicle Creek Recharge Basin	Divert water in the winter or spring time when flow is sufficient from Icicle Creek or use an existing diversion to a recharge basin that would be constructed on privately owned land in the Icicle Creek valley to augment groundwater supplies.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Mountain Home Off-channel Reservoirs	Divert water to two potential storage reservoir sites on privately owned land.	350	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
45						Storage	Upper Wenatchee Recharge Basin	Divert water from the Wenatchee River or enlarge the Wenatchee-Chiwawa Irrigation ditch to convey water to a recharge basin on private land near Plain.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-100 AF
45						Storage	Canyon Creek Off-Channel Reservoir	Divert water to a reservoir on National Forest lands to store runoff from Chiwaukum and Canyon Creek	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Lower Chiwaukum Creek Off-Channel Reservoir	Divert water to an off-stream reservoir located on private property near the mouth of Chiwaukum Creek.	200	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 100-200 AF
45						Storage	Marble Creek Instream Reservoir	Construct an instream reservoir in the upper reaches of the Marble Creek basin at Marble Meadow on National Forest land at about elevation 5,920 ft.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Marble Creek off-channel Reservoir	Divert water to an off-channel reservoir adjacent to Marble Creek on National Forest land at about elevation 2,940 ft.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Gate Creek Off-channel Reservoir	Divert water to an off-channel reservoir between Gate Creek and Marble Creek on National Forest land at about elevation 2,560 ft.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Minnow Creek Off-channel Reservoir	Divert water to an off-channel reservoir adjacent to Minnow Creek on National Forest land at about elevation 2,860 ft.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Goose Creek North Tributary Reservoir	Divert water to an off-channel reservoir in a tributary valley north of Goose Creek on National Forest land at about elevation 2,380 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Deep Creek Instream Reservoir	Construct an instream reservoir opposite Morrow Meadow on National Forest land at an elevation of about 2,260 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Beaver Creek Off-channel Reservoir	Divert water to an off-channel reservoir located adjacent to Beaver Creek on private land at about elevation 2,240 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Connection to old oxbows and other floodplain storage areas	There are numerous areas in the Chiwawa River floodplain that may benefit from improving connection between the river and floodplain or constructing side channels or oxbows to increase water storage in the floodplain		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
45						Storage	CMZ Project N1	Reconnect an oxbow located to the east of Hwy 207 to the main Nason Creek channel using a culvert to provide high-flow off-channel habitat for juvenile salmonids and increase floodplain storage.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project N2	Reconnect an oxbow located to the east of Hwy 207 using a culvert which has been cut-off to fish access from the main Nason Creek channel to provide high-flow off-channel habitat for juvenile salmonids.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project N3	Reconnect a remnant oxbow to the mainstem by the construction of a proper culvert to provide high-flow off-channel habitat for juvenile salmonids within the N3 and N2 wetland complex. A larger connection would increase floodplain storage.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	CMZ Project N4	Reconnect a remnant oxbow to the mainstem by the construction of a proper culvert to provide high-flow off-channel habitat for juvenile salmonids and increase floodplain storage. Channel reconstruction on the west side of Hwy 207 would also be necessary for fish passage to and from the Nason Creek mainstem.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Nason Creek Floodplain Storage	Review the feasibility of improving the connection between Nason Creek and the floodplain wetland that is separated from Nason Creek by the railroad embankment or constructing a water level control in the wetland to increase storage.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Coulter Creek Instream Reservoir	Potential site for an instream reservoir on National Forest land at elevation 3,300 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Roaring Creek Tributary Off-channel Reservoir	Potential site for an off-channel reservoir at the site of a small existing lake on National Forest land at about elevation 5,120 ft.	10	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 1-10 AF
45						Storage	Roaring Creek instream reservoir	Potential site for instream reservoir is at elevation 4,400 ft. Site is located on National Forest land.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Lanham Lake	Potential site at small existing lake on National Forest land at about elevation 4,140 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF



Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
45						Storage	Nason Creek Off channel Reservoir	Divert water to an off-channel reservoir on National Forest land at an elevation of about 2,350 ft near the confluence of Whitepine Creek and Nason Creek.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-100 AF
45						Storage	Rock Lake	Potential site at a small existing lake on National Forest land at about elevation 5,900 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Cresent Lake	Potential site at a small existing lake on National Forest land at about elevation 5,450 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Canaan Lake	Potential site at a small existing lake on National Forest land at about elevation 5,900 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Merritt Lake	Potential site at a small existing lake on National Forest land at about elevation 5,000 ft.	50	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 10-50 AF
45						Storage	Mill Creek Instream Reservoir	Construct a large instream reservoir on National Forest land. A potential problem is a railroad tunnel located 200-300 feet under the reservoir site.	500	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 100-500 AF
45						Storage	Upper Nason Creek Off-channel Reservoir	Construct an off-channel reservoir on the north side of Hwy 2 to hold diverted water.	100	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 50-100 AF
45						Storage	Connection to old oxbows and other floodplain storage areas	There are numerous areas in the White River floodplain that may benefit from improving connection between the river and floodplain or constructing side channels or oxbows to increase water storage in the floodplain.		Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	
45						Storage	Lake Creek Instream Reservoir	Construct an instream reservoir on Lake Creek on National Forest land at about elevation 2,600 ft.	500	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 100-500 AF
45						Storage	Fish Creek Instream Reservoir	Construct an instream reservoir Fish Creek on National Forest land at about elevation 2,800 ft.	500	Proposed	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Capacity: 100-500 AF
48						Storage	Uphill Reservoir	Raise the level of Patterson Lake	2,298	Proposed	Methow basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005.	p. 10
48						Storage	Elbow Coulee and Dead Horse Reservoirs	Raise the level of Pearygin Lake	5,253	Proposed	Methow basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005.	p. 10
55						Storage	Beaver Creek Alternative	Construct reservoir on Beaver Creek.	1,850	Proposed	Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	One of two storage alternatives reviewed for the area, storage ranges from 930-1850 AF based on existing inflows.
55						Storage	Buck Creek Alternative	Construct reservoir on Buck Creek.	4,750	Proposed	Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	One of two storage alternatives reviewed for the area, storage ranges from 4560-4750 AF based on existing inflows.
56						Storage	Wetland Restoration Complex A	Restore wetland area.	531	Proposed	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	

Table C-7

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
56						Storage	Wetland Restoration Complex B	Restore wetland area.	694	Proposed	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	
56						Storage	Catchment/Balancing Basins	Install 40-82 catchment basins or 6 balancing basins.	600	Proposed	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Storage assessment (2004) indicates there were a total of 550 basins.
56						Storage	Courtney Canyon Dam	Construct Courtney Canyon Dam near Spangle.	992	Proposed	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Range of 56-992 AF storage.
56						Storage	Spangle Creek Dam	Construct Spangle Creek Dam near Spangle.	496	Proposed	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Range of 30-496 AF storage.
56						Storage	Smith Creek Dam	Construct Smith Creek Dam.	534	Proposed	Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	
57						Storage	Saltese Flats Restoration	Restore shallow lake system using dikes, topography, or within critical wetland area.	11,400	Proposed	Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	Storage ranges from 2000-11400 AF depending on which of three options is completed.
62	Storage	Lake Pend Oreille									Golder Associates. 2005. Pend Oreille (WRIA 62) Watershed Management Plan. Prepared for the Pend Oreille Planning Unit. March 2005.	Capacity is 1,122,100 AF.
30						Storage	Swale Creek Subbasin	Potential options include ASR, on-channel impoundment of tributaries, diversion of multiple tributaries to off-channel impoundment, or storage in constructed wetlands.	Few tributaries to Swale Creek are capable of providing significant volumes of water (i.e. > 1,000 acre feet).		Aspect Consulting. 2003. Multipurpose Water Storage Screening Assessment Report WRIA 30. June 20, 2003.	
30						Storage	Little Klickitat Subbasin	ASR option of subsurface storage of excess winter water from Simcoe Springs for Goldendale public water supply and ASR in Simcoe Volcanics for diverted winter peak flows. Other options include on-channel impoundment of tributaries, off-channel impoundment, and wetland storage.	Potential storage from Dry Creek winter/spring discharge of 3,900 acre feet and Idlewild Creek winter/spring discharge of 1,600 acre feet. Potential storage in upper reaches of Bowman and/or Mill Creeks.		Aspect Consulting. 2003. Multipurpose Water Storage Screening Assessment Report WRIA 30. June 20, 2003.	
30						Storage	Swale Creek Subbasin	No change in conclusions.			Aspect Consulting. 2003. Addendum to WRIA 30 Multipurpose Water Storage Screening Assessment Report. November 25, 2003.	
30						Storage	Little Klickitat Subbasin	No change in conclusions. Alluvium exhibit strong influence on infiltration and potential recharge.			Aspect Consulting. 2003. Addendum to WRIA 30 Multipurpose Water Storage Screening Assessment Report. November 25, 2003.	
32						Storage	East Little Walla Walla River Site	Suggest SASR testing; although small in volume there is increased opportunity for suprabasalt aquifer recharge along entire length of river and this site would facilitate a Bi-State approach to the Bi-State issue of surface and groundwater declines.			Kennedy Jenks Consultants. 2003. Candidate SASR Sites Hydrogeology, Walla Walla Basin Aquifer Recharge. Prepared for Economic and Engineering Services, Portland, Oregon	

Table C-7

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
32						Storage	Locher Road gravel pit site	Suggest SASR testing; water supply is close and easy to control and residential density is low.			Kennedy Jenks Consultants. 2003. Candidate SASR Sites Hydrogeology, Walla Walla Basin Aquifer Recharge. Prepared for Economic and Engineering Services, Portland, Oregon	
32						Storage	Lower Yellowhawk Creek	Suggest SASR testing; Touchet Beds could limit infiltration capacity and efficiency but it is close to Walla Walla River.			Kennedy Jenks Consultants. 2003. Candidate SASR Sites Hydrogeology, Walla Walla Basin Aquifer Recharge. Prepared for Economic and Engineering Services, Portland, Oregon	
32						Storage	Cottonwood Creek	SASR testing questionable. Groundwater and spring flow problems may be unknown at this time.			Kennedy Jenks Consultants. 2003. Candidate SASR Sites Hydrogeology, Walla Walla Basin Aquifer Recharge. Prepared for Economic and Engineering Services, Portland, Oregon	
38						Storage	ASR Ahtanum-Moxee	Storage in the Lower Member of the Upper Ellensburg Formation	5,220		Golder Associates. 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.	
38						Storage	Long-term ASR in Ahtanum-Moxee		2,386		Golder Associates. 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.	
38						Storage	Kittitas Valley	Appears to have significant storage capacity.			Golder Associates. 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.	
38						Storage	Richland-West Richland; Cle Elum area and lower Yakima Valley	Appear to be hydrologically favorable.			Golder Associates. 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.	
38						Storage	Wymer Reservoir	WRIAs 37, 38, 39 Potential if ASR developed in conjunction with exisitng infrastructure.			Golder Associates. 2002. Naches Basin (WRIA 38) Storage Assessment, Application of Aquifer Storage and Recovery Report.	
50						Storage	Foster Creek erosional control check-dams	Dams trap sediments, raise streambed level of creek, and increase water storage by increasing adjacent groundwater level.	35		Pacific Groundwater Group and MWG. 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.	
44						Storage	Douglas Creek In-Stream Storage	Potential site located in Douglas Creek canyon upstream of Moses Coulee.	247 to 291		Pacific Groundwater Group and MWG. 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.	
44						Storage	Douglas Creek Offstream Storage	Likely located near Palisades Irrigation District diversion at mouth of Douglas Creek.	247		Pacific Groundwater Group and MWG. 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.	
44						Storage	Douglas Creek Flood Infiltration	Potential groundwater storage in lower Moses Coulee (infiltration basin of 50'x7000') Would be designed to hold 2-year flood event (249cfs)	83		Pacific Groundwater Group and MWG. 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.	
44						Storage	McCarteney Creek Flood Infiltration	Would be designed to collect 2-year flood event (280 cfs)	113		Pacific Groundwater Group and MWG. 2004. WRIA 44/50 Storage Assessment and Feasibility Study Final. Prepared for Foster Creek Conservation District. August 2004.	

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
46						Storage	Indian Spring Canyon	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	600		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	McCleish Canyon	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	360		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	McCarthur Canyon	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	200		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Asher Canyon	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	180		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Saunders Creek	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	1,700		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Crum Canyon	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	10,000		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Morical Creek	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	500		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Medsker Creek	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	2,000		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Gray Canyon	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	11,300		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Preston Falls	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	11,300		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Mills Canyon Tributary	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	900		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Bear Gulch	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	1,000		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
46						Storage	Murdock Gulch	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	1,800		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Potato Creek Tributary	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	1,300		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Pyramid Creek	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	700		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Stormy Creek	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	11,300		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Lake Creek	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	11,300		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Myrtle Lake	Potential Off-channel storage; focus on natural depressions and ephemeral drainages.	1,900		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Entiat On-channel Reservoir	Potential surface water impoundment on Entiat River mainstem or large tributary.	>10,000		Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Whitehall/Entiat Wells	Planned for irrigation; Lower Entiat River		Proposed	Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46						Storage	Columbia River Basin Transfer	Investigative Stage in Lower Entiat River; for irrigation, fish habitat			Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46	Storage	Hanan-Detwiler Improvements	Ongoing; Lower Entiat River; for instream flows		2006						Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46	Storage	Knapp-Wham Improvements	Ongoing; Lower Entiat River; for instream flows		2006						Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46	Storage	Jon Small Off-Channel Habitat	Entiat River at Roaring Creek; rearing habitat								Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	



Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
46	Storage	Jon Small Rearing Pond	Entiat River at Roaring Creek; rearing habitat								Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
46	Storage	Entiat Demonstration Project	Between river miles 3 and 4 for fish habitat								Golder Associates. 2006. Report to WRIA 46 (Entiat) Storage Sub-Committee, Step A Water Storage Assessment. Submitted to Chelan County Conservation District and WRIA 46 Planning Unit.	
55	Storage	Ponderosa Lake Dam	Max Storage is 710 AF/yr	357	2004	Storage	Ponderosa Lake Dam	Add 20 feet to Dam Height	2,090		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Ponderosa Lake Dam	Add 40 feet to Dam Height	6,630		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
57	Storage	Newman Lake Flood Control Dam	Max Storage is 11,300 AF/yr	8,700	2004		Newman Lake Flood Control Dam	Add 20 feet to Dam Height	35,040		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
57						Storage	Newman Lake Flood Control Dam	Add 40 feet to Dam Height	81,120		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Chain Lake	Add 20 feet to Dam Height	2,939		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Horseshoe Lake	Add 20 feet to Dam Height	14,660		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Horseshoe Lake	Add 40 feet to Dam Height	45,880		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Lake of the Woods	Add 20 feet to Dam Height	494		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Lake of the Woods	Add 40 feet to Dam Height	2,221		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Trout Lake	Add 20 feet to Dam Height	3,831		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Trout Lake	Add 40 feet to Dam Height	12,489		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
55						Storage	Wetlands		1,840		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
57						Storage	Saltese Flats	Wetlands	2,540		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
57						Storage	Newman Lake	Wetlands	1,400		Golder Associates. 2004. Final Storage Assessment Little and Middle Spokane Watersheds. December 2004.	
56	Storage	Emtman Dam	Used for irrigation	24	2004						Golder Associates Inc., 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.	
56	Storage	Fairfield Sewage Lagoon #1	Used for water quality; may not be appropriate for the storage of water.	13	2004						Golder Associates Inc., 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.	
56	Storage	Fairfield Sewage Lagoon #2	Used for water quality; may not be appropriate for the storage of water.	8	2004						Golder Associates Inc., 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.	

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
56	Storage	Fairfield Waste Treatment Aerated Lagoon	Used for water quality; may not be appropriate for the storage of water.	10	2004						Golder Associates Inc., 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.	
56	Storage	Sewell	Potential storage.	3	2004						Golder Associates Inc., 2004. Multi-Purpose Storage Assessment for Hangman (Latah) Creek Watershed: Project completion report to WRIA 56 Planning Unit.	
39						Storage	Wymer Off-Channel Reservoir	WRIAs 37, 38, 39 Upstream of Roza Diversion in Lmuma Creek Canyon	142,000	Under evaluation		
37						Storage	Black Rock Alternative 2		800,000	Proposed	United States Bureau of Reclamation. 2004. Summary Report Appraisal Assessment of the Black Rock Alternative. December 2004.	
						Storage	Ninemile Flat Dam and Reservoir	Off-channel storage. Located entirely within Colville Indian Reservation boundary in south Ferry County, west of Columbia River, approx. 55 river miles upstream of Grand Coulee Dam.	1,024,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Hawk Creek Dam and Reservoir	Off-channel storage. South of Columbia River approx. 40 river miles upstream of Grand Coulee Dam. Would inundate portions of Hawk, Indian, Stock Creeks, and Snook Canyon.	1,550,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Goose Lake Dam and Reservoir	Off-channel storage. Between Rufus Woods Lake (Chief Joseph Reservoir) and Omak Lake within Colville Indian Reservation. Area of dry land farming and semi-arid vegetation.	3,619,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Foster Creek Dam and Reservoir	Off-channel storage. South of Chief Joseph Dam on Columbia River. Would be located in north Douglas County.	1,321,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Mission Creek Dam and Reservoir	Off-channel storage. South of Cashmere on Wenatchee River, north of Leavenworth. Would inundate portions of Mission Creek, Tripp, Sherman and Slawson canyons and Bear Gulch.	481,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Moses Coulee Dam and Reservoir	Off-channel storage. Lies in flood drainage channel from Pleistocene Lake Missoula. Would be approx. 20 miles long. In area of irrigated farming and natural semi-arid vegetation.	4,126,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Sand Hollow Dam and Reservoir	Off-channel storage. 3.7 miles north of Wanapum Dam in SW Grant County.	1,228,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	

Table C-7. Water Storage Opportunities Inventory Results

WRIA No.	Current Use Type	Current Storage Name	Current Storage Description	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Storage Name	Future Storage Description	Future Annual Quantity (AFY)	Future Year	Citation	Additional Information
						Storage	Crab Creek Dam and Reservoir	Off-channel storage. 4 miles south of Wanapum Dam in SW Grant County inundating portions of large low-relief Lower Crab Creek drainage.	2,653,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Alder Creek Dam and Reservoir	Off-channel storage. Approx. 33 miles below McNary Dam in east Klickitat County and would inundate Alder and Sixprong Creeks.	331,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Rock Creek East Dam and Reservoir	Off-channel storage. Approx. 13 river miles upstream from John Day Dam in eastern Klickitat County and would inundate Squaw and Rock Creeks.	998,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	
						Storage	Kalama River Dam and Reservoir	Off-channel storage. At river mile 13.3, approx. 2.6 river miles upstream from the Lower Kalama River Falls and 2.4 miles upstream from Kalama Falls Salmon Hatchery. In Cowlitz County and would extend up to river mile 28.	1,185,000	Identified as feasible	Montgomery Water Harza (MWH). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. December 2005.	

**Table C-8.** Water Rights Within the Management Zone<sup>1</sup>, Designated Agriculture<sup>2</sup>

County	Ground Water		Surface Water	
	No. Records	Q <sub>a</sub> <sup>3</sup> (AF)	No. Records	Q <sub>a</sub> <sup>4</sup> (AF)
Benton	198	18,489	160	684,662
Chelan	39	8,170	145	958,092
Douglas	168	355,452	326	81,167
Ferry	5	153	87	7,995
Franklin	132	35,011	76	453,420
Grant	47	45,991	14	1,463
Kittitas	17	10,961	27	212
Klickitat	39	2,513	165	5,061
Lincoln	8	520	105	501,481
Okanogan	57	19,783	178	58,675
Skamania	10	91	27	154
Stevens	34	4,226	199	18,197
Walla Walla	44	35,776	53	291,058
Yakima	NA	NA	4	0
<b>Total</b>	<b>798</b>	<b>537,136</b>	<b>1,566</b>	<b>3,061,637</b>

**NOTES**

Abbreviations: AF: acre-feet; NA: Not applicable; Q<sub>a</sub>: annual quantity

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Agriculture incorporates the following uses: DY, FP, IR, ST.

<sup>3</sup> Q<sub>a</sub> for ground water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.6141 AFY).

<sup>4</sup> Q<sub>a</sub> for surface water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 CFS = 724.4615 AFY).

**Table C-9.** Water Rights Within the Management Zone<sup>1</sup>, Designated Commercial and Industrial<sup>2</sup>

County	Ground Water		Surface Water	
	No. Records	Q <sub>a</sub> <sup>3</sup> (AF)	No. Records	Q <sub>a</sub> <sup>4</sup> (AF)
Benton	23	8,427	12	231,113
Chelan	16	4,412	10	55,325
Douglas	6	644	9	4,466
Ferry	NA	NA	2	6
Franklin	5	1,074	2	1,197
Grant	3	2,731	6	3,128,101
Kittitas	1	78	1	98
Klickitat	6	1,682	5	25,991
Lincoln	2	843	2	743
Okanogan	5	1,308	2	2,465
Skamania	2	47	6	1,460
Stevens	NA	NA	5	1,065
Walla Walla	19	25,740	2	32,731
Yakima	1	1,372	NA	NA
<b>Total</b>	<b>89</b>	<b>48,358</b>	<b>64</b>	<b>3,484,761</b>

**NOTES**

Abbreviations: AF: acre-feet; NA: Not Applicable; Q<sub>a</sub>: annual quantity

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Commercial and Industrial incorporates the following uses: CI, CO, HW, MI, RW

<sup>3</sup> Q<sub>a</sub> for ground water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.6141 AFY)

<sup>4</sup> Q<sub>a</sub> for surface water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 CFS = 724.4615 AFY)



**Table C-10.** Water Rights Within the Management Zone<sup>1</sup>, Designated Domestic<sup>2</sup>

County	Ground Water		Surface Water	
	No. Records	Q <sub>a</sub> <sup>3</sup> (AF)	No. Records	Q <sub>a</sub> <sup>4</sup> (AF)
Benton	773	32,095	15	70,903
Chelan	187	37,081	128	54,617
Douglas	476	254,807	109	4,718
Ferry	78	235	146	9,541
Franklin	698	6,475	17	7,685
Grant	102	7,839	12	2,244
Kittitas	15	521	10	605
Klickitat	130	8,194	105	22,216
Lincoln	74	3,367	80	1,169
Okanogan	120	6,823	32	2,393
Skamania	136	1,106	180	11,826
Stevens	201	1,566	352	13,419
Walla Walla	198	10,691	1	1
Yakima	2	6	1	0
<b>Total</b>	<b>3,190</b>	<b>370,806</b>	<b>1,188</b>	<b>201,337</b>

**NOTES**

Abbreviations: AF: acre-feet; Q<sub>a</sub>: annual quantity

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Domestic incorporates the following uses: DG, DM, DS, HE, MU, RE.

<sup>3</sup> Q<sub>a</sub> for ground water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.6141 AFY).

<sup>4</sup> Q<sub>a</sub> for surface water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 CFS = 724.4615 AFY).

**Table C-11.** Water Rights Within the Management Zone<sup>1</sup>, Designated Environment and Wildlife<sup>2</sup>

County	Ground Water		Surface Water	
	No. Records	Q <sub>a</sub> <sup>3</sup> (AF)	No. Records	Q <sub>a</sub> <sup>4</sup> (AF)
Benton	NA	NA	3	31,152
Chelan	7	35,294	3	18,871
Douglas	2	39,819	1	5,796
Ferry	NA	NA	3	75
Franklin	1	3,632	6	72,820
Grant	2	16,070	4	89,690
Kittitas	NA	NA	1	1,449
Klickitat	NA	NA	1	21,735
Lincoln	NA	NA	1	1
Okanogan	NA	NA	2	318
Skamania	2	891	16	139,188
Stevens	NA	NA	5	361
Walla Walla	NA	NA	1	4,832
Yakima	NA	NA	NA	NA
<b>Total</b>	<b>14</b>	<b>95,706</b>	<b>47</b>	<b>386,288</b>

**NOTES**

Abbreviations: AF: acre-feet; NA: Not Applicable; Q<sub>a</sub>: annual quantity

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Environment and Wildlife incorporates the following uses: EN, FR, FS, WL.

<sup>3</sup> Q<sub>a</sub> for ground water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.6141 AFY).

<sup>4</sup> Q<sub>a</sub> for surface water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 CFS = 724.4615 AFY).

**Table C-12.** Water Rights Within the Management Zone<sup>1</sup>, Designated Undefined Use<sup>2</sup>

County	Ground Water		Surface Water	
	No. Records	Q <sub>a</sub> <sup>3</sup> (AF)	No. Records	Q <sub>a</sub> <sup>4</sup> (AF)
Benton	13	1,669	2	3,186
Chelan	4	0	8	0
Douglas	19	508	9	5
Ferry	9	0	2	0
Franklin	13	0	NA	NA
Grant	9	3,091	NA	NA
Kittitas	1	0	1	98
Klickitat	8	0	11	0
Lincoln	NA	NA	4	0
Okanogan	1	0	1	0
Skamania	3	0	3	0
Stevens	6	0	3	0
Walla Walla	1	0	NA	NA
Yakima	NA	NA	NA	NA
<b>Total</b>	<b>87</b>	<b>5,268</b>	<b>44</b>	<b>3,289</b>

**NOTES**

Abbreviations: AF: acre-feet; NA: Not Applicable; Q<sub>a</sub>: annual quantity

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Primary use is undefined or unrecognized (non-standard) use code.

<sup>3</sup> Q<sub>a</sub> for ground water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 GPM = 1.6141 AFY).

<sup>4</sup> Q<sub>a</sub> for surface water rights is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. (1 CFS = 724.4615 AFY).

**Table C-13. Oregon Water Record General Use Designations**

General Use Designation	Use Code <sup>1</sup>	General Purpose of Use
Agriculture	AG, DB, FR, GH, NU	Agriculture, Dairy Barn, Frost Protection, Greenhouse, Nursery Uses
	CH, CI, CR	Harvesting of Cranberries, Irrigation of Cranberries, Cranberries
	I*, IC, ID, IL, IR, Is, OI	Irrigation, Livestock & Domestic, Primary & Supplemental Irrigation, Irrigation & Domestic, Irrigation & Livestock, Supplemental Irrigation, Out of Season Irrigation
	LV, LW	Livestock, Livestock and Wildlife
Commercial and Industrial	CM, IM, LA, MI, MS	Commercial Uses, Manufacturing, Mining Laboratory, Mint Still
	LD, SM	Log Deck Sprinkling, Sawmill
	RW, SH	Road Construction, Shop
Domestic	AS, CS, R3, RA, RC, RR, SW	Aesthetics, Campsite, Supporting Recreation & Aesthetic Benefits, Supporting Recreational Boating, Recreation, Restroom, Swimming
	DI, DN, DO, DS, GD, HC	Domestic Including Lawn & Garden, Domestic Expanded Including Non Commercial Garden, Domestic, Domestic & Livestock, Group Domestic, Human Consumption
	AH, GT, MP, MU, QM, SC	Air Conditioning or Heating, Geo Thermal (Heating & Cooling), Multiple Purpose, Municipal, Quasi Municipal, School
Environment and Wildlife	AQ, F1, F3, F5, F6, F7, F8, FE, FI, FW, PF, R1, R2, RF, WI	Aquaculture, Supporting Aquatic Life, Anadromous & Resident Fish Habitat, Instream Fishery Enhancement, Fisheries Enhancement, Flow Augmentation for Fish Enhancement, Anadromous & Resident Fish Rearing, Fish Habitat for Resident Borax Lake Chub, Fish Culture, Fish & Wildlife, Supporting Aquatic & Minimizing Pollution, Anadromous & Recreation Fish & Recreation, Supporting Aquatic Life, Recreation & Aesthetics, Supporting Aquatic Life & Recreation, Wildlife
	CF, F2, F4, GR, PM	Supplemental Flood Harvesting, Best Use of Waters from Storage, Instream, Groundwater Recharge, Pond Maintenance
	FM, FP	Forest Management, Fire Protection
	PA	Pollution Abatement

**NOTES**

<sup>1</sup> Provided by OWRD September 14, 2006.

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
28	Domestic and Industrial - public supplied	41,564.96	2000					GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.	Units converted from MG/mo; Groundwater use from major purveyors.
28	Domestic and Industrial - public supplied	2,677.4	2000					GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.	Units converted from MG/mo; Surface water use from major purveyors.
28	Domestic - self-supplied (Exempt Well)	7,752	2000					GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.	Units converted from MG/mo; data does not include major purveyors (listed above).
28	Crop Irrigation	6,843.61	2000					GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.	Units converted from MG/mo; based on CIR estimate.
28	Industrial - self-supplied	44,686	2000					GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.	Units converted from MG/mo; data does not include major purveyors (listed above).
30	Domestic - public supplied	1,376	2003					Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.	
30	Domestic - self-supplied (Exempt Well)	871	2003					Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.	
30	Industrial - public supplied	471	2003					Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.	
30	Crop Irrigation	29,459	2003					Watershed Professional Network. 2005. Klickitat Basin (WRIA 30) Watershed Management Plan. May 3, 2005.	
31	Crop Irrigation	622,571	2000					Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.	
31	Domestic - public supplied	7,635	2000					Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.	



WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
31	Domestic - self-supplied (Exempt Well)	515	2000					Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.	
31	Industrial - public supplied	4,009	2000					Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.	
31	Industrial - self-supplied	5,556	2000					Aspect Consulting. 2004. Level I Watershed Assessment WRIA 31 (Rock-Glade Watershed). November 12, 2004.	
32	Crop Irrigation	92,500	1997					HDR/EES, Inc. Walla Walla Watershed PI	Based upon data from 1997. File WRIA32_4.pdf.
32	Crop Irrigation	123.30	2005	Crop Irrigation	134.51	2010		HDR/EES, Inc. Walla Walla Watershed PI	Projected surface water use. Includes only Consolidated Irrigation District No. 14 data. File WRIA32_2.pdf.
32	Crop Irrigation	246.60	2005	Crop Irrigation	257.81	2010		HDR/EES, Inc. Walla Walla Watershed PI	Projected ground water use. Includes only Consolidated Irrigation District No. 14 data. File WRIA32_3.pdf.
32	Domestic - self-supplied (Exempt Well)	3,799.88	2000	Domestic - self-supplied (Exempt Well)	4,651.78	2020		HDR/EES, Inc. Walla Walla Watershed PI	Calculated values. Exempt well use. File: WRIA32_7.pdf.
32	Domestic and Industrial - public & self supplied	10,715.90	2005	Domestic and Industrial - public & self supplied	11,825.60	2010		HDR/EES, Inc. Walla Walla Watershed PI	Projected surface water use. Consolidated Irrigation District No. 14 data not included. File WRIA32_2.pdf.
32	Domestic and Industrial - public supplied	7,891.21	2005	Domestic and Industrial - public supplied	8,249.90	2010		HDR/EES, Inc. Walla Walla Watershed PI	Projected ground water use. Consolidated Irrigation District No. 14 and Industrial data not included. File WRIA32_3.pdf.
32	Industrial - self-supplied	56.05	2005	Industrial - self-supplied	56.05	2010		HDR/EES, Inc. Walla Walla Watershed PI	Projected ground water use. Includes only Industrial (not served by WWW) data. File WRIA32_3.pdf.
32				Domestic and Industrial - public & self supplied	12,173.08	2020		HDR/EES, Inc. Walla Walla Watershed PI	Projected surface water use. Consolidated Irrigation District No. 14 data not included. File WRIA32_2.pdf.

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
32				Crop Irrigation	145.72	2020		HDR/EES, Inc. Walla Walla Watershed Plan	Projected surface water use. Includes only Consolidated Irrigation District No. 14 data. File WRIA32_2.pdf.
32				Domestic and Industrial - public supplied	9,079.37	2020		HDR/EES, Inc. Walla Walla Watershed Plan	Projected ground water use. Consolidated Irrigation District No. 14 and Industrial data not included. File WRIA32_3.pdf.
32				Crop Irrigation	291.44	2020		HDR/EES, Inc. Walla Walla Watershed Plan	Projected ground water use. Includes only Consolidated Irrigation District No. 14 data. File WRIA32_3.pdf.
32				Industrial - self-supplied	56.05	2020		HDR/EES, Inc. Walla Walla Watershed Plan	Projected ground water use. Includes only Industrial (not served by WWW) data. File WRIA32_3.pdf.
34	Crop Irrigation	184,286						Golder Associates Inc. Phase II - Level 1	Consumptive use from 3 surface water claims. File WRIA34_1.pdf. No watershed plan or storage report available yet.
34	Domestic - public supplied	7,112	2000	Domestic - public supplied	9,630	2025		Golder Associates Inc. Phase II - Level 1	Domestic Water Use File WRIA34_3.pdf. No watershed plan or storage report available yet.
34				Crop Irrigation	2,683.5			Golder Associates Inc. Phase II - Level 1	Applications for new water rights. File WRIA34_2.pdf. No watershed plan or storage report available yet.
34				Domestic - self-supplied (Exempt Well)	4,868			Golder Associates Inc. Phase II - Level 1	Applications for new water rights. File WRIA34_2.pdf. No watershed plan or storage report available yet.
34	Domestic - self-supplied (Exempt Well)	2,968	2000	Domestic - self-supplied (Exempt Well)	3,754			Golder Associates Inc. Phase II - Level 1	Domestic Water Use File WRIA34_3.pdf. No watershed plan or storage report available yet.
34	Domestic - self-supplied (Exempt Well)	2,968		Domestic - self-supplied (Exempt Well)	3,754			Golder Associates Inc. Phase II - Level 1 Technical Assessment for the Palouse Basin (WRIA 34). December 8, 2004.	Applications for new water rights. File WRIA34_2.pdf.

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
35	Crop Irrigation	790						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, consumptive use, surface water. File WRIA35_1.pdf. Includes both irrigation and stock watering.
35	Crop Irrigation	314.9						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, consumptive use, groundwater. File WRIA35_2.pdf.
35	Domestic - surface water	7.5						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, consumptive use, surface water. File WRIA35_1.pdf.
35	Fish and Wildlife Propagation	10						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, non-consumptive use, surface water. File WRIA35_1.pdf.
35	Domestic and Industrial - public supplied	409	2005	Domestic and Industrial - public supplied	499	2025		HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, consumptive use, groundwater. File WRIA35_3.pdf. Assumed use type, Plan only listed "Municipal" but separated it from "Domestic". Note, projected use greatly exceeds municipal water rights listed in Plan (156.2 AF/Y per WRIA35_2.pdf).
35	Domestic - self-supplied (Exempt Well)	147	2005	Domestic - self-supplied (Exempt Well)	109	2025		HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, consumptive use, groundwater. File WRIA35_3.pdf. Assumed use type, Plan only listed "Domestic" but separated it from "Municipal". Note, projected use greatly exceeds domestic water rights listed in Plan (9.3 AF/Y per WRIA35_2.pdf).

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
35	Industrial - public supplied	120						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Asotin Creek Implementation Area, consumptive use, groundwater. File WRIA35_2.pdf. Assumed use type, Plan listed "Highway Maintenance"
35	Crop Irrigation	4,319.73						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, surface water. File WRIA35_4.pdf. Includes irrigation and stock watering.
35	Domestic - surface water	234.7						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, surface water. File WRIA35_4.pdf.
35	Industrial - public supplied	131.6						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, surface water. File WRIA35_4.pdf. Includes manufacturing, environmental quality, fire, irrigation, stock watering.
35	Fish and Wildlife Propagation	51.38						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, surface water. File WRIA35_4.pdf.
35	Recreation	2						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, surface water. File WRIA35_4.pdf.
35	Crop Irrigation	13,454.26						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, groundwater. File WRIA35_5.pdf.
35	Domestic - self-supplied (Exempt Well)	489	2005	Domestic - self-supplied (Exempt Well)	470			HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, groundwater. File WRIA35_6.pdf.

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
35	Domestic and Industrial - public supplied	5,719	2005	Domestic and Industrial - public supplied	6,934			HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Middle Snake Implementation Area, groundwater. File WRIA35_6.pdf. Note, projected use exceeds water rights listed in Plan (4882.78 AF/Y per WRIA35_5.pdf).
35	Crop Irrigation	625						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Pataha Creek Implementation Area, surface water. File WRIA35_7.pdf.
35	Domestic - surface water	567						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Pataha Creek Implementation Area, surface water. File WRIA35_7.pdf.
35	Crop Irrigation	1,003.3						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Pataha Creek Implementation Area, groundwater. File WRIA35_7.pdf.
35	Domestic - self-supplied (Exempt Well)	70						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Pataha Creek Implementation Area, groundwater. File WRIA35_8.pdf.
35	Domestic - public & self supplied	385.28						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Pataha Creek Implementation Area, groundwater. File WRIA35_7.pdf.
35	Domestic - public supplied	462	2005	Domestic - public supplied	510			HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Pataha Creek Implementation Area, groundwater. File WRIA35_8.pdf.
35	Crop Irrigation	3,139						HDR Inc. Middle Snake Watershed Plan	Tucannon River
35	Domestic - surface water	5						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, surface water. File WRIA35_9.pdf.
35	Domestic - public & self supplied	17						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, surface water. File WRIA35_9.pdf.



**Table C-14.** Watershed Plan Water Use Inventory Results

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
35	Domestic - self-supplied (Exempt Well)	161						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, groundwater. File WRIA35_9.pdf.
35	Domestic and Industrial - public & self supplied	590.14						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, groundwater. File WRIA35_9.pdf.
35	Fish and Wildlife Propagation	1,440						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, groundwater. File WRIA35_9.pdf.
35	Crop Irrigation	822						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, groundwater. File WRIA35_9.pdf.
35	Domestic - public supplied	38	2005		38	2005		HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, groundwater. File WRIA35_10.pdf.
35	Domestic - self-supplied (Exempt Well)	108	2005		106			HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Tucannon River Implementation Area, groundwater. File WRIA35_10.pdf.
35	Domestic - surface water	41						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, surface water. File WRIA35_11.pdf.
35	Crop Irrigation	1,961						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, surface water. File WRIA35_11.pdf.
35	Domestic - self-supplied (Exempt Well)	3						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, groundwater. File WRIA35_11.pdf.

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
35	Domestic - public & self supplied	158						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, groundwater. File WRIA35_11.pdf.
35	Domestic - self-supplied (Exempt Well)	308						HDR Inc. Middle Snake Watershed Plan Draft. April 2006.	Grande Ronde Implementation Area, groundwater. File WRIA35_12.pdf.
37	Domestic and Industrial - public & self supplied	95,422	2000	Domestic and Industrial - public & self supplied	134,383	2020		Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
38	Domestic and Industrial - public & self supplied	4,765	2000	Domestic and Industrial - public & self supplied	6,481	2020		Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
39	Domestic and Industrial - public & self supplied	15,585	2000	Domestic and Industrial - public & self supplied	22,451	2020		Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	
43	Crop Irrigation	323,140	2003					Kennedy/Jenks Consultants. 2005. Watershed Assessment Report WRIA 43. November 2005.	
43	Domestic and Industrial - public & self supplied	4,103	2003	Domestic and Industrial - public & self supplied	5,714	2028		Kennedy/Jenks Consultants. 2005. Watershed Assessment Report WRIA 43. November 2005.	
44	Domestic and Industrial - public & self supplied	6,446.6	unknown	Domestic and Industrial - public & self supplied	15,691	2025		Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.	Future use includes WRIA 50.
44	Crop Irrigation	56,023.8	unknown					Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.	
44	Domestic and Industrial - public & self supplied	3,761.2	unknown					Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.	Use for irrigation season only (April-October); subset of above value.
45	Domestic and Industrial - public & self supplied	5,405	2002	Domestic and Industrial - public & self supplied	7,950	2025	1.18	WRIA 45 Planning Unit. 2006. Final Wenatchee Watershed Management Plan. April 26, 2006.	Current and Future demand is average day demand
46	Domestic - public & self supplied	50.1	2004	Domestic - public & self supplied	64.5	2025	1.156	WRIA 46 Planning Unit. 2004. Management Plan. October 2004	CFS to Aclt/y, current and future demand is
46				Domestic and Industrial - self-supplied	724	2025	1.156	WRIA 46 Planning Unit. 2004. Management Plan. October 2004	CFS to Aclt/y, current and future demand is
46	Crop Irrigation	7,685.9	2004	Crop Irrigation	9,858.9	2025	1.156	WRIA 46 Planning Unit. 2004. Management Plan. October 2004	CFS to Aclt/y, current and future demand is

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
48	Crop Irrigation	55,467	Not given	Domestic - public & self supplied	3,026.46	2015		Methow basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005. p. 34	p. 34 Current; p. 13 Future; Future water use based on population.
48	Domestic - self-supplied (Exempt Well)	956	Not given					Methow basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005. p. 34	
48	Domestic - public supplied	210	Not given					Methow basin Planning Unit. 2005. Methow Basin (WRIA 48) Watershed Plan. Approved June 20, 2005. p. 34	
50	Domestic and Industrial - public & self supplied	109.4	unknown	Domestic and Industrial - public & self supplied	15,691	2025		Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.	Future use includes WRIA 44.
50	Crop Irrigation	127.2	unknown					Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.	
50	Domestic and Industrial - public & self supplied	63.8	unknown					Pacific Groundwater Group. 2003. WRIA 44/50 Final Phase II Basin Assessment. April 2003.	Use for irrigation season only (April-October); subset of above value.
55	Crop Irrigation	6,398	unknown					Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	
55	Domestic - public supplied	24,553	unknown		29,631.6	2020		Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	Future use converted from 12,914 MG/yr
55	Industrial - public & self supplied	3,929	unknown					Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	
55	Domestic - self-supplied (Exempt Well)	11,000	unknown					Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	
56	Domestic - public supplied	6,867.76	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Units converted from 9.48 cfs.
56	Industrial - public supplied	1,861.83	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Units converted from 2.57 cfs.

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
56	Commercial	5,817.31	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Units converted from 8.03 cfs.
56	Domestic - self-supplied (Exempt Well)	1,130.14	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Units converted from 1.56 cfs.
56	Industrial - self-supplied	6,099.85	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Units converted from 8.42 cfs.
56	Crop Irrigation	7,860.25	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Units converted from 10.85 cfs.
56		38,556	2000					Hangman (Latah) Creek Watershed Planning Unit. 2005. The Hangman (Latah) Creek Water Resources Management Plan. May 19, 2005.	Total estimated WRIA water use.
57	Crop Irrigation	1,278	unknown					Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	
57	Domestic - public supplied	103,962	unknown		156,872	2020		Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	Future use converted from 51,117 MG/yr
57	Industrial - public & self supplied	34,254	unknown					Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	
57	Domestic - self-supplied (Exempt Well)	5,600	unknown					Little Spokane River and Middle Spokane River Planning Unit. 2005. Watershed Management Plan - WRIA 55 & WRIA 57. January 31, 2006.	
59	Crop Irrigation	21,600	2001					GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 12	Does not include the 310 AF in 2001 for watering livestock
59	Industrial - public & self supplied	239	2001					GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 12	

**Table C-14. Watershed Plan Water Use Inventory Results**

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
59	Domestic - self-supplied (Exempt Well)	1,870	2001					GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 12	
59	Domestic - public supplied	4,670	2001					GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 12	
59				Crop Irrigation	29,894.4	2025		GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 13	Calculated using 38.4% increase from 2001 to 2025 for irrigation; Livestock watering 2.6% yearly decrease
59				Industrial - public & self supplied		2025		GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 13	
59				Domestic - self-supplied (Exempt Well)		2025		GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 13	
59				Domestic - public supplied		2025		GeoEngineers. 2005. WRIA 59 Colville River Watershed Plan. November 15, 2005. p. 13	
60	Domestic - public & self supplied	5,311	2000					GeoEngineers. 2004. Level I Technical Assessment Water Resource Inventory Area 60, Kettle River Watershed. March 16, 2004. p. 27	Used 2000 census data to estimate demand - is based on number of households
27 & 28				Domestic - public & self supplied	116,190	2020		GeoEngineers. 2001. Level I Technical Assessment Water Resource Inventory Areas 27 and 28. June 29, 2001.	Based on average day demand of 175 gpcd
37,38 & 39				Domestic and Industrial - public & self supplied	195,772	2050		Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	Based on 80,000 AF more than current use as described in Plan for WRIA 37, 38, & 39.
37,38 & 39	Crop Irrigation	2,490,755	2000					Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	WRIA 38 & 39, based on surface water entitlements, for April-October, 49% non-proratable entitlements.
37,38 & 39	Crop Irrigation	529,627	2000					Economic and Engineering Services. 2003. Watershed Management Plan Yakima River Basin. January 2003.	WRIA 37, 38, & 39, estimated from ground water use, one-third is supplemental use, two-thirds are primary use.



**Table C-14.** Watershed Plan Water Use Inventory Results

WRIA No.	Current Use Type	Current Annual Quantity (AFY)	Current Year	Future Use Type	Future Annual Quantity (AFY)	Future Year	Future Water Use Annual Percent Increase	Citation	Additional Information
62	Crop Irrigation	1,468	2003	Crop Irrigation	1,800	2008		Golder Associates. 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to The Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004. p. 34	
62	Domestic - self-supplied (Exempt Well)	690	2000					Golder Associates. 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to The Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004. table 5.10	
62	Domestic - public supplied	1,327	2000					Golder Associates. 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to The Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004. Table 5.10	
62				Domestic - public & self supplied	3,202	2020		Golder Associates. 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to The Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004. Table 5.11	
62	Industrial - public supplied	35	2000					Golder Associates. 2004. Draft Pend Oreille (WRIA 62) Watershed Planning Phase II, Level 2 Technical Assessment. Submitted to The Pend Oreille Watershed Planning Unit and Pend Oreille Conservation District. March 2004. Table 5.10	

County	Size (acres)	Ownership Type	Ownership Entities	Ownership (acres)	Land Use Type	Land Use (acres)	Year Land Use Reported	Land Use Trends	Current Water Quantity Trends	Current Water Quality Trends	Future Water Quantity Trends	Future Water Quality Trends	Additional Information	Citation
Benton	1,095,910							Expansion of agricultural acreage: conversion of undeveloped or rangeland to dryland/ irrigated crop production; Conversion of lands to irrigated agriculture; Continued growth of commercial retail centers; Construction of residential/golf course communities; Rural Population growth.					Table 4.0	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton		Public	Owned or managed by other public entities (port districts, state, federal - including U.S. Department of Energy's Hanford Reservation, and local government lands)	339,732			2005						Reported as 31% of total land in county; 25% of Benton County is occupied by the U.S. Department of Energy's Hanford Reservation.	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton		Private		756,178			2005						Reported as 69% of total land in county	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton					Agriculture (irrigated and dryland)	526,037	2005						Reported as approx. 48% of total land in county	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton					Range land and undeveloped	208,223	2005						Reported as approx. 19% of total land in county	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton					Urban (five cities and their Urban Growth Areas)	65,339	2005							Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton					Other	296,311	2005						No access to table 4-3 so did not have the original information. Was calculated from acres left over.	Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Benton								Regionally however, though the picture is complex, the trend is one of declining ground water levels in lower aquifers, and declining water quality in upper aquifers. This regional phenomena is largely attributable to expansions in the amount of acreage under irrigated agricultural production: water from deeper aquifers is withdrawn, augmented with agricultural chemicals, and applied to crops, where it then percolates through the soil column to low lying upper aquifers. This is occurring within portions of the Pasco Basin (which extends westerly into Benton County from the east and underlies the Finley plain, Badger Canyon and the Yakima River westerly to the Red Mountain anticline). As the Yakima Basin is heavily irrigated, the trend is also likely within the Yakima Basin lying to the west of Red Mountain.		Nitrate contaminations occur principally in upper aquifer wells drilled in the lower lying areas of the county. The spatial correlation between elevated concentrations of nitrates in groundwater and irrigated croplands indicates that the major source of contamination is applied fertilizers for irrigated crops. A complicating factor in the nitrate picture is evidence which suggests that currently, seepage from irrigation district canals actually serves to dilute what would otherwise be higher nitrate levels within groundwater (U.S. Geological Survey, Water Resources Investigations Report 93-4060). As federal and state sponsored conservation projects reduce or eliminate this seepage, nitrate concentrations in the upper aquifer may actually rise.		For reasons relating to a broader range of issues than groundwater contamination, the groundwater resources within Benton County east of the Pasco Basin must be characterized. This should occur as part of the new state and local initiative to transfer management responsibilities for entire watersheds to local jurisdictions within them. Such characterizations need to include: 1. identification of hydro-geologic units; 2. connectivity, including with surface waters; 3. potential yields versus demand; 4. recharge areas and water quality.		Benton County. 2005. Benton County Comprehensive Land Use Plan. Revised by Resolution 2005.
Chelan						123,731	1997	Data from recent changes in agricultural use, production and conversion from 1997 to the year 2000 are not yet available. The average farm size increased in the county, and the number of farms less than 500 acres in size significantly declined from 1987 to 1997. The trend appears to indicate a shift to larger farming operations and a significant decrease in the number of farms, in all but the largest farm operations.						Chelan County. 2005. Chelan County Comprehensive Plan 2000. Last Amended 2-14-05.

County	Size (acres)	Ownership Type	Ownership Entities	Ownership (acres)	Land Use Type	Land Use (acres)	Year Land Use Reported	Land Use Trends	Current Water Quantity Trends	Current Water Quality Trends	Future Water Quantity Trends	Future Water Quality Trends	Additional Information	Citation
Grant		Public	State or federal government	1,150,668	Agriculture	1,100,000	1994						Public Ownership: The largest single public ownership is the Wahluke Slope area owned by the U.S. Department of Energy Atomic Energy Commission, which totals about 64,209 acres.	Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Residential	19,872								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Commercial/Industrial	12,753								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Irrigated Agriculture	340,878								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Dryland Agriculture	314,836								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Orchard	34,577								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Rangeland	183,425								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Unimproved/Vacant	584,738								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant					Not classified	296,135								Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Grant								Most of the new housing in Grant County will locate in the UGAs during the next twenty years, and most of the public spending for facilities and services will be directed to the UGAs. This will promote efficient use of public infrastructure dollars and enhance community diversity and livability. Commercial and industrial activity will also be encouraged within the UGAs.						Grant County. 1999. Grant County Comprehensive Plan. Prepared by Proulx Cearn, Inc. September 1999.
Kittitas	1,486,476	Public	State or federal government	877,020	coniferous forests	743,238							fifty-nine percent (59%) of Kittitas County is managed by State and Federal Agencies; More than half of the county is coniferous forest land use	Kittitas County. 2005. Kittitas County Comprehensive Plan. December 2001. Revised 9-28-2005.
Kittitas					pasture or unimproved g	445,943							approximately thirty percent (30%)	Kittitas County. 2005. Kittitas County Comprehensive Plan. December 2001. Revised 9-28-2005.

County	Size (acres)	Ownership Type	Ownership Entities	Ownership (acres)	Land Use Type	Land Use (acres)	Year Land Use Reported	Land Use Trends	Current Water Quantity Trends	Current Water Quality Trends	Future Water Quantity Trends	Future Water Quality Trends	Additional Information	Citation
Kittitas					urban development	29,730							Less than two percent (2%)	Kittitas County. 2005. Kittitas County Comprehensive Plan. December 2001. Revised 9-28-2005.
Kittitas					Other	267,566								Kittitas County. 2005. Kittitas County Comprehensive Plan. December 2001. Revised 9-28-2005.
Okanogan	3,411,203	Public	Federal	1,574,262										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		Private		953,301										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		Tribal		485,695										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		Public	City	1,343										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		Public	County	937										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		Public	Public Utility Districts	1,505										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		Public	State	357,721										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan		None	water bodies	36,439										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan					Agriculture	1,240,000								Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan					Mining	14,318							reported by subarea: 789 acres + 2,643 acres + 3,676 acres + 2,996 acres + 4,214 acres	Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Okanogan					Privately-owned forest land	46,307							reported by subarea: 8,111 acres + 2,948 acres + 3,948 acres + 21,948 acres + 9,352 acres	Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Skamania	1,070,080	Public	State	59,876										Okanogan County. 2005. Okanogan County Comprehensive Plan Update. June 15, 2005.
Skamania		Public	County	62,478										Advanced Planning Solutions, Inc. 2006. Report Of Findings For Skamania County Comprehensive Plan Update Visioning Exercise with Emphasis in the Swift Area. June 2006.
Skamania		Public	City	5,000										Advanced Planning Solutions, Inc. 2006. Report Of Findings For Skamania County Comprehensive Plan Update Visioning Exercise with Emphasis in the Swift Area. June 2006.

Table C-15

County	Size (acres)	Ownership Type	Ownership Entities	Ownership (acres)	Land Use Type	Land Use (acres)	Year Land Use Reported	Land Use Trends	Current Water Quantity Trends	Current Water Quality Trends	Future Water Quantity Trends	Future Water Quality Trends	Additional Information	Citation
Skamania		Public	Federal: Gifford Pinchot National Forest	855,000										Advanced Planning Solutions, Inc. 2006. Report Of Findings For Skamania County Comprehensive Plan Update Visioning Exercise with Emphasis in the Swift Area. June 2006.
Skamania		Public	Federal: National Scenic Area	85,204										Advanced Planning Solutions, Inc. 2006. Report Of Findings For Skamania County Comprehensive Plan Update Visioning Exercise with Emphasis in the Swift Area. June 2006.
Skamania		Private	Swift Subarea and Westend Subarea	65,000										Advanced Planning Solutions, Inc. 2006. Report Of Findings For Skamania County Comprehensive Plan Update Visioning Exercise with Emphasis in the Swift Area. June 2006.
Stevens	1,587,840												converted 2481 sq mi	Stevens County Land Services. 2006. Stevens County Comprehensive Land Use Plan. Resolution #59- 2006. Effective July 13, 2006.
Yakima		Public	Federal: Wenatchee National Forest and the Department of Defense's Yakima Training Center	670,000					Securing certainty in our water supply will be a major issue over the next twenty years. Reliable access to water is necessary for direct human uses like household, agriculture, commercial and industrial operations, and for indirect human needs such as habitat and recreation. Today, irrigated agriculture is the biggest user of water. But recently the needs of other surface water uses, particularly those dealing with the protection and restoration of anadromous fish runs, have been fiercely fought for.					Yakima County Planning Department. 1998. Plan 2015: A Blueprint for Yakima County Progress. Adopted May 20, 1997. Amended December 28, 1998.
Yakima		Public	Department of Natural Resources and the Department of Fish and Wildlife (63,925).	205,925										Yakima County Planning Department. 1998. Plan 2015: A Blueprint for Yakima County Progress. Adopted May 20, 1997. Amended December 28, 1998.
Yakima		Tribal	Yakama Indian Reservation	1,100,000										Yakima County Planning Department. 1998. Plan 2015: A Blueprint for Yakima County Progress. Adopted May 20, 1997. Amended December 28, 1998.
Yakima		Public	fourteen incorporated cities	29,000										Yakima County Planning Department. 1998. Plan 2015: A Blueprint for Yakima County Progress. Adopted May 20, 1997. Amended December 28, 1998.
Yakima		Private		733,000										Yakima County Planning Department. 1998. Plan 2015: A Blueprint for Yakima County Progress. Adopted May 20, 1997. Amended December 28, 1998.



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
65071	59ER DINER	45	Act	A	TNC	26	20	Chelan
8	ADAMS COUNTY FAIR	36	Act	A	TNC	144	0	Adams
22525	ADAMS COUNTY WATER DIST #1	41	Act	A	Comm	203	740	Adams
34544	ADMIRAL WATER USERS ASSN	41	Act	A	Comm	24	74	Grant
27782	AENEAS GENERAL STORE	52	Act	A	TNC	1	0	Okanogan
AB279	Agrex Water System	41	Act	A	NTNC	2		Grant
12690	AGRIUM - KENNEWICK AREA	31	Act	A	NTNC	1	0	Benton
83830	AIRWAY EXPRESS INN INC	56	Act	A	Comm	23	45	Spokane
650	AIRWAY HEIGHTS, CITY OF	54	Act	A	Comm	986	4600	Spokane
650	AIRWAY HEIGHTS, CITY OF		Act	A	Comm	986		Spokane
800	ALBION WATER DEPT	34	Act	A	Comm	330	618	Whitman
750	ALCOA	40	Act	A	NTNC	1	0	Chelan
750	ALCOA	45	Act	A	NTNC	1	0	Chelan
750	ALCOA		Act	A	NTNC	1		Chelan
26214	ALDERDALE WATER ASSN	31	Act	A	Comm	30	115	Klickitat
26214	ALDERDALE WATER ASSN		Act	A	Comm	30		Klickitat
1608	ALLAN BROS WAREHOUSE	38	Act	A	NTNC	1	0	Yakima
1700	ALMIRA WATER SYSTEM	43	Act	A	Comm	172	302	Lincoln
6319	ALOHA PINES ESTATES WATER SYSTEM	55	Act	A	Comm	44	110	Spokane
6319	ALOHA PINES ESTATES WATER SYSTEM		Act	A	Comm	44		Spokane
1815	ALPENHORN CAFE	47	Act	A	TNC	1	0	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
1822	ALPINE ACRES COMMUNITY ASSOCIATION	45	Act	A	Comm	71	46	Chelan
25315	ALPINE WATER DISTRICT	45	Act	A	TNC	153	24	Chelan
HD007	ALPOWA SUMMIT REST AREA	35	Act	A	TNC	2	0	Garfield
14572	ALPS MOBILE HOME PARK	37	Act	A	Comm	60	150	Yakima
14572	ALPS MOBILE HOME PARK		Act	A	Comm	60		Yakima
19204	ALTA LAKE GOLF COURSE PLAT	48	Act	A	Comm	72	89	Okanogan
19204	ALTA LAKE GOLF COURSE PLAT		Act	A	Comm	72		Okanogan
SP010	ALTA LAKE STATE PARK	48	Act	A	TNC	70	6	Okanogan
1985	AMERICAN LEGION	37	Act	A	TNC	2	0	Yakima
87510	AMERICOLD LOGISTICS	41	Act	A	NTNC	2	0	Grant
2330	ANDERSON HAY & GRAIN CO	39	Act	A	NTNC	1	0	Kittitas
6372	Annas Mini Mart	37	Act	A	TNC	1	0	Benton
2735	APPLE ACRES VILLAGE	47	Act	A	Comm	70	212	Chelan
2735	APPLE ACRES VILLAGE		Act	A	Comm	70		Chelan
62020	APPLE KING LLC	38	Act	A	NTNC	2	0	Yakima
603	APPLEWAY TRAILER COURT	49	Act	A	Comm	13	40	Okanogan
2885	ARDEN HILLS WATER SYSTEM	59	Act	A	Comm	24	64	Stevens
2942	ARLENES ADDITION	32	Act	A	Comm	129	650	Walla Walla
3150	ARTESIAN WATER DISTRICT 8	32	Act	A	Comm	110	219	Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
3150	ARTESIAN WATER DISTRICT 8		Act	A	Comm	110		Walla Walla
3250	ASOTIN WATER DEPT	35	Act	A	Comm	544	1125	Asotin
9066	ASTON ESTATES	49	Act	A	Comm	54	128	Okanogan
9066	ASTON ESTATES		Act	A	Comm	54		Okanogan
863	AUVIL FRUIT CO INC	40	Act	A	Comm	32	95	Kittitas
3427	AUVIL FRUIT COMPANY INC	44	Act	A	Comm	32	72	Douglas
3523	AZWELL ORCHARDS	47	Act	A	Comm	47	28	Chelan
92230	B & J WATER CO	55	Act	A	Comm	22	77	Spokane
604	BADGER CANYON WATER ASSN	37	Act	A	Comm	14	41	Benton
22617	BADGER MOUNTAIN IRRIGATION DISTRICT	37	Act	A	Comm	655	1710	Benton
22617	BADGER MOUNTAIN IRRIGATION DISTRICT	37	Act	A	Comm	655	1710	Benton
4177	BALLARD RESORT	41	Act	A	TNC	13	3	Grant
8343	BAR DEVELOPMENT WATER USERS	50	Act	A	Comm	26	29	Douglas
1983	BASIC AMERICAN FOODS	41	Act	A	NTNC	1	0	Grant
4460	BASIN CITY MOBILE HOME COURT	36	Act	A	Comm	106	400	Franklin
4152	BASIN CITY OCHOA CENTER	36	Act	A	NTNC	1	0	Franklin
4461	BASIN CITY WATER COMPANY	36	Act	A	Comm	106	150	Franklin
4530	BASIN VIEW WATER ASSOCIATION	36	Act	A	Comm	22	60	Adams

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
4530	BASIN VIEW WATER ASSOCIATION	41	Act	A	Comm	22	60	Adams
4600	BASIN WATER SOURCES INC	41	Act	A	Comm	283	668	Grant
5836	BAUERS LANDING LODGE	44	Act	A	Comm	123	160	Douglas
29070	BAYOU ON BARKER	57	Act	A	TNC	4	0	Spokane
AA373	BC WATER CO	37	Act	A	Comm	62	155	Benton
5065	BEAMERS LANDING INC	35	Act	A	TNC	6	0	Asotin
27684	BEAR CREEK GOLF COURSE	48	Act	A	TNC	2	0	Okanogan
47370	BEAR CREEK LODGE	55	Act	A	TNC	1	0	Spokane
5232	BEAVER LODGE	59	Act	A	TNC	21	2	Stevens
7929	BEAVER VALLEY SCHOOL	45	Act	A	NTNC	1	0	Chelan
15126	BENEFICIAL WATER	36	Act	A	Comm	30	84	Franklin
15126	BENEFICIAL WATER		Act	A	Comm	30		Franklin
7544	BENNINGTON LAKE	32	Act	A	TNC	1	0	Walla Walla
5800	BENTON CITY WATER		Act	A	Comm	735		Benton
5800	BENTON CITY WATER		Act	A	Comm	735		Benton
5800	BENTON CITY WATER	37	Act	A	Comm	735	2175	Benton
90070	BENTON COUNTY TWO RIVERS PARK	31	Act	A	TNC	7	0	Benton
33827	BERRY ENTERPRISES	54	Act	A	TNC	3	0	Spokane
5885	BERTSCH SUBDIVISION WATER ASSN	38	Act	A	Comm	34	100	Yakima
6350	BEVERLY WATER DISTRICT	41	Act	A	Comm	57	120	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
6485	BICKLETON SCHOOL WATER SUPPLY	31	Act	A	NTNC	5	6	Klickitat
9555	BIG Y CAFE	45	Act	A	TNC	1	0	Chelan
52172	BIRD DOG FAMILY LTD PARTNERSHIP II	36	Act	A	Comm	51	186	Adams
51764	BJ LINCOLN ROCK	44	Act	A	TNC	1	0	Douglas
51786	BJ S FOOD AND FUEL 2	45	Act	A	TNC	1	0	Chelan
7270	BLACK BEACH RESORT	60	Act	A	TNC	73	2	Ferry
7350	BLALOCK ORCHARD DIST 10	32	Act	A	Comm	78	250	Walla Walla
7350	BLALOCK ORCHARD DIST 10		Act	A	Comm	78		Walla Walla
7400	BLALOCK ORCHARDS DIST 12	32	Act	A	Comm	69	150	Walla Walla
7400	BLALOCK ORCHARDS DIST 12		Act	A	Comm	69		Walla Walla
2368	BLUE LAKE RESORT	42	Act	A	TNC	61	1	Grant
HD055	BLUE LAKE REST AREA	42	Act	A	TNC	1	0	Grant
7504	BLUE LAKE SUMMER HOMES WATER ASSN	42	Act	A	TNC	36	10	Grant
7504	BLUE LAKE SUMMER HOMES WATER ASSN		Act	A	TNC	36		Grant
7513	BLUE MOUNTAIN HOMESITES	35	Act	A	TNC	19	6	Asotin
7516	BLUE SKY COUNTRY FARMS	55	Act	A	Comm	16	44	Spokane
31568	BLUEBIRD INN	31	Act	A	TNC	2	0	Klickitat
1726	BLUEWOOD SKI AREA	32	Act	A	TNC	2	0	Columbia
12292	BLU-SHASTIN RV PARK	45	Act	A	TNC	86	3	Chelan
7597	BOISE CASCADE CORP - WALLULA	32	Act	A	NTNC	1	0	Walla Walla



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
6643	BOISE CASCADE TRUCKING DIVISION	32	Act	A	TNC	2	0	Walla Walla
7634	BONAPARTE LAKE RESORT	49	Act	A	TNC	6	2	Okanogan
4410	BORTON & SONS INC	37	Act	A	NTNC	4	10	Yakima
FS062	BOULDER CAVE/NACHES RD	38	Act	A	TNC	1	0	Yakima
8015	BOYER PARK & MARINA	35	Act	A	TNC	55	5	Whitman
AB027	Brandt Orchards	44	Act	A	TNC	2	4	Douglas
7289	BRAYS LANDING WATER USERS	44	Act	A	Comm	50	48	Douglas
8290	BREWSTER FLAT DOMESTIC WATER ASSN	49	Act	A	Comm	144	414	Okanogan
34101	BREWSTER SDA SCHOOL	49	Act	A	NTNC	2	2	Okanogan
34101	BREWSTER SDA SCHOOL		Act	A	NTNC	2		Okanogan
8300	BREWSTER, CITY OF	49	Act	A	Comm	675	2055	Okanogan
8300	BREWSTER, CITY OF		Act	A	Comm	675		Okanogan
SP100	BRIDGEPORT STATE PARK	50	Act	A	TNC	39	2	Okanogan
8350	BRIDGEPORT, CITY OF	50	Act	A	Comm	577	2075	Douglas
8350	BRIDGEPORT, CITY OF		Act	A	Comm	577		Douglas
8356	BRIDGEVIEW HOMESITES WATER ASSN	39	Act	A	Comm	21	80	Yakima
8364	BRIDLE MOOR WATER ASSOCIATION	37	Act	A	Comm	17	44	Yakima
1393	BRISSEY WATER SYSTEM	41	Act	A	TNC	12	1	Grant
8690	BROETJE ORCHARDS	33	Act	A	Comm	10	37	Walla Walla
AB300	Broetje Wallula Ranch	32	Act	A	NTNC	2	2	Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
SP120	Brooks Memorial SP Admin	30	Act	A	TNC	58	4	Klickitat
8850	BROWN ROAD WATER USERS ASSN	45	Act	A	TNC	16	19	Chelan
8815	BROWN TAYLOR WATER CO INC	38	Act	A	Comm	26	45	Yakima
51696	BROWNIE KORNER	41	Act	A	TNC	4	5	Grant
9540	BRUCE WATER SYSTEM	36	Act	A	NTNC	11	0	Adams
47044	BUCKBOARD CAFE	45	Act	A	TNC	1	0	Chelan
9277	BUNKERS RESORT 1	34	Act	A	TNC	47	4	Spokane
9350	BURBANK HEIGHTS	32	Act	A	Comm	59	177	Walla Walla
9300	BURBANK IRRIGATION DISTRICT 4	32	Act	A	Comm	208	512	Walla Walla
9300	BURBANK IRRIGATION DISTRICT 4		Act	A	Comm	208		Walla Walla
9355	BURBANK LDS CHURCH	32	Act	A	TNC	1	0	Walla Walla
5103	BURBANK LIBRARY WATER SYSTEM	32	Act	A	TNC	1	0	Walla Walla
9370	BURGER ROYAL	57	Act	A	TNC	5	4	Spokane
9570	BURMAN ACRES WATER	37	Act	A	Comm	23	92	Yakima
10085	BUTTE RANCH	47	Act	A	TNC	11	22	Chelan
10100	BUTTERFIELD WATER COMPANY	37	Act	A	Comm	36	108	Yakima
3392	BYBEE, CLYDE W.	31	Act	A	NTNC	6	16	Benton
7291	C&O ORCHARDS - GEORGE LABOR CAMP	41	Act	A	TNC	14	10	Grant
AA476	Cabin Creek	39	Act	A	TNC	30	2	Kittitas
10568	CALVARY BAPTIST CHURCH	39	Act	A	NTNC	1	0	Kittitas

Table C-16

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
10795	CAMAS MEADOWS BIBLE CAMP	45	Act	A	TNC	4	7	Chelan
47079	CAMP CAMREC 1	45	Act	A	TNC	6	4	Chelan
111	CAMP COWLES	55	Act	A	TNC	36	2	Pendoreille
SP135	CAMP DELANEY	42	Act	A	TNC	3	0	Grant
27550	CAMP GHORMLEY	38	Act	A	TNC	16	10	Yakima
10865	CAMP KOINONIA	39	Act	A	TNC	9	10	Kittitas
NP070	CAMP NABOR LEE	58	Act	A	TNC	12	0	Stevens
73927	CAMP ROGANUNDA	38	Act	A	TNC	11	1	Yakima
10947	CAMP SEKANI	57	Act	A	TNC	2	2	Spokane
SP140	CAMP WOOTEN STATE PARK	35	Act	A	TNC	22	4	Columbia
10972	CAMP ZANIKA LACHE	45	Act	A	TNC	7	0	Chelan
10972	CAMP ZANIKA LACHE		Act	A	TNC	7		Chelan
AB363	Campbell Farm Potable Well	37	Act	A	TNC	5	9	Yakima
2380	Canoe Ridge Winery	31	Act	A	NTNC	5	2	Benton
5801	CANYON VILLAGE WATER SYSTEM INC	37	Act	A	Comm	80	290	Benton
11250	CARNHOPE IRRIGATION DISTRICT 7	57	Act	A	Comm	455	1120	Spokane
11250	CARNHOPE IRRIGATION DISTRICT 7		Act	A	Comm	455		Spokane
26445	CARRIAGE HILL ESTATES	37	Act	A	Comm	83	200	Yakima
7285	CASCADE FOOTHILLS LLC	44	Act	A	Comm	13	38	Douglas
2791	CASCADE MOUNTAIN BIBLE CHURCH	45	Act	A	TNC	1	0	Chelan
11500	CASCADE VALLEY WATER DISTRICT	41	Act	A	Comm	138	330	Grant
11500	CASCADE VALLEY WATER DISTRICT		Act	A	Comm	138		Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
11488	CASCADE VILLAGE MHP	41	Act	A	Comm	61	127	Grant
11625	CASCADIA PARK WATER COMPANY	37	Act	A	Comm	31	93	Yakima
11700	CASHMERE WATER DEPARTMENT	45	Act	A	Comm	882	2715	Chelan
11700	CASHMERE WATER DEPARTMENT		Act	A	Comm	882		Chelan
AB045	Cave B Inn	41	Act	A	TNC	23	0	Grant
AB184	Cave B Winery	41	Act	A	TNC	2	0	Grant
21127	CENTERVILLE GRADE SCHOOL	30	Act	A	NTNC	1	0	Klickitat
21127	CENTERVILLE GRADE SCHOOL		Act	A	NTNC	1		Klickitat
AA344	CENTRAL FERRY PARK	35	Act	A	TNC	84	5	Whitman
12170	CENTRAL MOBILE HOME PARK	39	Act	A	Comm	52	156	Kittitas
6164	CENTRAL PRE MIX - SULLIVAN RD	57	Act	A	NTNC	4	0	Spokane
8124	CFI	41	Act	A	NTNC	2	0	Grant
24266	CHAMPERTY SHORES	49	Act	A	TNC	18	1	Okanogan
9626	CHARBONNEAU PARK	33	Act	A	TNC	33	0	Walla Walla
12239	CHARLENE HEIGHTS WELL CO	37	Act	A	Comm	12	30	Yakima
4424	CHATEAU STE MICHELLE - VINEYARD 8	37	Act	A	TNC	4	4	Benton
51684	CHATTAROY SPRINGS NORTH	55	Act	A	Comm	14	41	Spokane
12247	CHATTAROY SPRINGS WATER ASSN	55	Act	A	Comm	16	40	Spokane
12249	Chattaroy Springs West WD #11	55	Act	A	Comm	28	75	Spokane
12243	CHATTAROY VALLEY MOBILE ESTATES	55	Act	A	Comm	101	175	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
12243	CHATTAROY VALLEY MOBILE ESTATES		Act	A	Comm	101		Spokane
7083	CHELAN CO PUD - BEEBE PARK	50	Act	A	TNC	47	2	Douglas
631	CHELAN CO PUD - CHELAN RIDGE	47	Act	A	Comm	18	45	Chelan
631	CHELAN CO PUD - CHELAN RIDGE		Act	A	Comm	18		Chelan
20100	CHELAN CO PUD - DRYDEN	45	Act	A	Comm	69	152	Chelan
20100	CHELAN CO PUD - DRYDEN		Act	A	Comm	69		Chelan
63408	CHELAN CO PUD - OLLALA CANYON	45	Act	A	Comm	27	67	Chelan
63408	CHELAN CO PUD - OLLALA CANYON		Act	A	Comm	27		Chelan
12284	CHELAN CO PUD 1		Act	A	Comm	4304		Chelan
12286	CHELAN COUNTY FAIRGROUND	45	Act	A	TNC	2	0	Chelan
12350	CHELAN FALLS WATER DISTRICT	47	Act	A	Comm	118	295	Chelan
12350	CHELAN FALLS WATER DISTRICT		Act	A	Comm	118		Chelan
12291	CHELAN HEIGHTS	47	Act	A	TNC	17	8	Chelan
56211	CHELAN PARK RANCHES WATER ASSN	47	Act	A	Comm	24	52	Chelan
12296	CHELAN RIVER IRRIGATION DISTRICT	47	Act	A	Comm	113	250	Chelan
12300	CHELAN WATER DEPT, CITY OF	47	Act	A	Comm	2028	6170	Chelan
12300	CHELAN WATER DEPT, CITY OF		Act	A	Comm	2028		Chelan
12384	CHELMINAR SUMMER HOME ASSN	38	Act	A	TNC	2	2	Yakima
12400	CHENEY, CITY OF	34	Act	A	Comm	1883	10070	Spokane



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
12400	CHENEY, CITY OF	56	Act	A	Comm	1883	10070	Spokane
12400	CHENEY, CITY OF		Act	A	Comm	1883		Spokane
27981	CHEROKEE TRADING POST	57	Act	A	TNC	8	3	Spokane
23381	CHEWELAH LDS CHAPEL	59	Act	A	TNC	1	0	Stevens
7469	Chewelah Peak Community Water Co.	59	Act	A	TNC	35	20	Stevens
7469	Chewelah Peak Community Water Co.		Act	A	TNC	35		Stevens
9156	CHEWELAH WATER DEPT NORTH	59	Act	A	Comm	155	274	Stevens
9156	CHEWELAH WATER DEPT NORTH		Act	A	Comm	155		Stevens
12750	CHEWELAH WATER DEPT SOUTH	59	Act	A	Comm	1009	2200	Stevens
12750	CHEWELAH WATER DEPT SOUTH		Act	A	Comm	1009		Stevens
AA342	CHIEF TIMOTHY PARK	35	Act	A	TNC	49	0	Asotin
7776	Chinook Wines	37	Act	A	TNC	2	0	Benton
12850	CHIWAWA COMMUNITIES ASSN	45	Act	A	Comm	309	150	Chelan
12850	CHIWAWA COMMUNITIES ASSN		Act	A	Comm	309		Chelan
47128	CHRIST COMMUNITY FELLOWSHIP	32	Act	A	NTNC	1	0	Walla Walla
12910	CHRISTENSEN WATER SYSTEM.	59	Act	A	Comm	18	31	Stevens
4455	CHRISTIAN FAITH TABERNACLE	37	Act	A	TNC	2	4	Yakima
8355	CHURCH OF GOD IN CHRIST	36	Act	A	NTNC	3	2	Franklin
73401	City of Rock Island Water Dept	44	Act	A	Comm	301	739	Douglas
73401	City of Rock Island Water Dept		Act	A	Comm	301		Douglas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
13335	CLARKTOWN WATER SYSTEM	36	Act	A	Comm	31	81	Franklin
13335	CLARKTOWN WATER SYSTEM		Act	A	Comm	31		Franklin
AB441	Clayton Cherry Labor Camp	44	Act	A	TNC	6		Douglas
FS111	CLE ELUM RIVER CG/CLE ELUM RD	39	Act	A	TNC	1	0	Kittitas
13500	CLE ELUM WATER DEPARTMENT	39	Act	A	Comm	1000	1820	Kittitas
13500	CLE ELUM WATER DEPARTMENT		Act	A	Comm	1000		Kittitas
FS116	CLEAR LAKE CG SOUTH/NACHES RD	38	Act	A	TNC	1	0	Yakima
8242	CLEAR LAKE GRACE BRETHERN CAMP INC	38	Act	A	TNC	6	2	Yakima
13532	CLEAR LAKE PINES BEACH CLUB	43	Act	A	TNC	151	0	Spokane
10647	CLEAR LAKE REC AREA	43	Act	A	TNC	40	5	Spokane
10647	CLEAR LAKE REC AREA		Act	A	TNC	40		Spokane
13525	CLEAR LAKE WATER USERS ASSN	34	Act	A	Comm	69	205	Spokane
13550	CLEARWATER DOMESTIC WATER ASSN	36	Act	A	Comm	26	78	Franklin
18620	CLIFFDELL SUMMER HOMES ASSN	38	Act	A	TNC	29	6	Yakima
NP110	CLOVERLEAF CAMPGROUND	58	Act	A	TNC	1	0	Stevens
13940	COLEMAN BUTTE WATER ASSN	49	Act	A	Comm	96	250	Okanogan
14000	COLFAX WATER DEPARTMENT, CITY OF	34	Act	A	Comm	959	2841	Whitman
14000	COLFAX WATER DEPARTMENT, CITY OF		Act	A	Comm	959		Whitman
14050	COLLEGE PLACE WATER DEPT	32	Act	A	Comm	2771	7125	Walla Walla
14050	COLLEGE PLACE WATER DEPT		Act	A	Comm	2771		Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
4074	COLT WATER SYSTEM	41	Act	A	TNC	3	4	Grant
14100	COLTON WATER DEPARTMENT	34	Act	A	Comm	185	403	Whitman
14100	COLTON WATER DEPARTMENT		Act	A	Comm	185		Whitman
8174	COLUMBIA CEDAR	58	Act	A	NTNC	1	0	Ferry
770	COLUMBIA COLSTOR INC	31	Act	A	NTNC	1	0	Benton
17641	COLUMBIA CREST WINERY	31	Act	A	NTNC	4	3	Benton
14129	COLUMBIA ELEMENTARY SCHOOL	32	Act	A	NTNC	2	0	Walla Walla
92024	COLUMBIA GENERATING STATION	40	Act	A	NTNC	35	0	Benton
14145	COLUMBIA HIGH SCHOOL	32	Act	A	NTNC	5	0	Walla Walla
SP325	COLUMBIA HILLS STATE PARK	30	Act	A	TNC	16	3	Klickitat
17166	COLUMBIA PARK - CAMPGROUND	31	Act	A	TNC	39	0	Benton
14169	COLUMBIA RIM WATER SYSTEM		Act	A	Comm	38		Klickitat
7664	COLUMBIA SCHOOL DISTRICT 206	58	Act	A	NTNC	1	0	Stevens
14176	COLUMBIA VIEW WATER SYSTEM	32	Act	A	Comm	116	350	Walla Walla
14176	COLUMBIA VIEW WATER SYSTEM	36	Act	A	Comm	116	350	Walla Walla
14176	COLUMBIA VIEW WATER SYSTEM		Act	A	Comm	116		Walla Walla
AB191	Colville SDA Church	59	Act	A	NTNC	4		Stevens
14200	COLVILLE WATER DEPARTMENT	59	Act	A	Comm	2631	4970	Stevens
14200	COLVILLE WATER DEPARTMENT		Act	A	Comm	2631		Stevens

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
14327	COMMELLINI RESTAURANT	55	Act	A	TNC	1	0	Spokane
5133	CONCERT CAMPING INC	41	Act	A	TNC	2	0	Grant
27795	CONCONULLY CITY WELL	49	Act	A	TNC	4	0	Okanogan
8912	CONCONULLY LAKE RESORT	49	Act	A	TNC	16	2	Okanogan
SP019	CONCONULLY SP BOAT LAUNCH	49	Act	A	TNC	1	0	Okanogan
SP018	CONCONULLY SP PRIMITIVE AREA	49	Act	A	TNC	1	0	Okanogan
SP170	CONCONULLY STATE PARK	49	Act	A	TNC	22	4	Okanogan
SP172	CONFLUENCE STATE PARK	45	Act	A	TNC	82	5	Chelan
14540	CONGDON ORCHARDS INC	37	Act	A	Comm	10	25	Yakima
14600	CONNELL, CITY OF	36	Act	A	Comm	680	3190	Franklin
14600	CONNELL, CITY OF		Act	A	Comm	680		Franklin
10220	CONSOLIDATED IRRIG DIST 19 SYSTEM 1	57	Act	A	Comm	3129	8045	Spokane
10220	CONSOLIDATED IRRIG DIST 19 SYSTEM 1		Act	A	Comm	3129		Spokane
10221	CONSOLIDATED IRRIG DIST 19 SYSTEM 2	57	Act	A	Comm	3921	8900	Spokane
10221	CONSOLIDATED IRRIG DIST 19 SYSTEM 2		Act	A	Comm	3921		Spokane
14650	CONSOLIDATED IRRIGATION DIST 14	32	Act	A	Comm	476	1400	Walla Walla
14650	CONSOLIDATED IRRIGATION DIST 14		Act	A	Comm	476		Walla Walla
21850	CONSOLIDATED SUPPORT SERVICES	54	Act	A	Comm	1214	920	Spokane
21850	CONSOLIDATED SUPPORT SERVICES		Act	A	Comm	1214		Spokane
29790	CORBETT CREEK WATER SYSTEM	59	Act	A	Comm	38	87	Stevens

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
51714	CORRAL SPRINGS WATER SYSTEM	50	Act	A	Comm	1	1	Douglas
51714	CORRAL SPRINGS WATER SYSTEM		Act	A	Comm	1		Douglas
15112	COTTONWOOD GLEN WATER ASSN	32	Act	A	Comm	24	65	Walla Walla
1143	COULEE CITY RV PARK	42	Act	A	TNC	40	23	Grant
15300	COULEE CITY, TOWN OF	42	Act	A	Comm	382	600	Grant
15300	COULEE CITY, TOWN OF		Act	A	Comm	382		Grant
15400	COULEE DAM WATER DEPT	42	Act	A	Comm	514	1161	Okanogan
15400	COULEE DAM WATER DEPT		Act	A	Comm	514		Okanogan
15451	COULEE GRANDE-BANKS LK GOLF COURSE	42	Act	A	TNC	2	1	Grant
15460	COULEE LODGE RESORT	42	Act	A	TNC	23	0	Grant
15501	COUNTRY CLUB ESTATES HOA	37	Act	A	Comm	37	70	Yakima
18189	COUNTRY CLUB ESTATES WATER SYSTEM	41	Act	A	Comm	65	159	Grant
64830	COUNTRY CLUB WATER ASSOCIATION	36	Act	A	Comm	79	158	Adams
6456	COUNTRY CORNER MOBILE HOME PARK	41	Act	A	Comm	39	95	Grant
6456	COUNTRY CORNER MOBILE HOME PARK		Act	A	Comm	39		Grant
7168	COUNTRY FOODS USA	37	Act	A	TNC	1	0	Yakima
15461	COUNTRY HAVEN ACADEMY	36	Act	A	Comm	10	32	Franklin
15523	COUNTRY LANE EAST	36	Act	A	Comm	14	32	Adams
51851	COUNTRY MERCANTILE	36	Act	A	TNC	1	0	Franklin



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
15514	COUNTRY MOBILE ESTATES	37	Act	A	Comm	64	180	Yakima
4136	COUNTRY PLACE MARKET	37	Act	A	TNC	1	0	Yakima
15515	COUNTRY SQUIRE MOBILE MANOR	39	Act	A	Comm	61	131	Yakima
15518	COUNTRY VILLA MOBILE PARK	59	Act	A	Comm	45	120	Stevens
33000	COUNTRYSIDE SCHOOL	54	Act	A	TNC	2	0	Spokane
15595	COVE OWNERS ASSOCIATION	47	Act	A	TNC	69	9	Chelan
15636	COWICHE COMMUNITY WELL	38	Act	A	TNC	9	10	Yakima
56398	COWICHE GROWERS INC	38	Act	A	NTNC	3	10	Yakima
4316	COWICHE WATER ASSOCIATION	38	Act	A	Comm	18	48	Yakima
2777	COXVILLE WATER ASSN #1	31	Act	A	Comm	17	52	Benton
15818	CRANE & CRANE INC	50	Act	A	Comm	28	78	Douglas
15947	CRESCENT BAR OUTDOOR REC CLUB	41	Act	A	TNC	51	3	Douglas
827	CRESCENT BAR RESORT/LEISURE TIME	41	Act	A	TNC	126	1	Grant
15950	CRESCENT BAR SYSTEM	41	Act	A	Comm	470	120	Grant
15950	CRESCENT BAR SYSTEM		Act	A	Comm	470		Grant
3129	CRESCENT VIEW CONDOMINIUM OWNERS	41	Act	A	Comm	102	28	Grant
3129	CRESCENT VIEW CONDOMINIUM OWNERS		Act	A	Comm	102		Grant
16150	CRESTON PUBLIC WATER	43	Act	A	Comm	135	251	Lincoln
16150	CRESTON PUBLIC WATER		Act	A	Comm	135		Lincoln
16218	CRESTVIEW WATER ASSOCIATION	36	Act	A	Comm	17	28	Adams

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
14174	CRO FARMS INC	44	Act	A	Comm	46	150	Douglas
683	CROSSROADS BAR AND GRILL	59	Act	A	TNC	1	0	Stevens
34531	CROSSWIND CHURCH	55	Act	A	TNC	2	0	Spokane
AA341	CROW BUTTE PARK	31	Act	A	TNC	63	4	Benton
13916	CRUMBACHER ESTATES WATER SYSTEM	49	Act	A	Comm	39	100	Okanogan
FS153	CRYSTAL SPRINGS CG/CLE ELUM RD	39	Act	A	TNC	11	0	Kittitas
FS165	CURLEW CONSERVATION CENTER	60	Act	A	Comm	31	300	Ferry
10581	CURLEW KAI HOMEOWNER WATER SYSTEM	60	Act	A	Comm	87	126	Ferry
SP200	CURLEW LAKE STATE PARK	60	Act	A	TNC	48	3	Ferry
16900	CURLEW WATER DISTRICT	60	Act	A	Comm	65	115	Ferry
2431	CUSTOM AG SERVICES	31	Act	A	NTNC	1	0	Benton
7993	CUSTOM ORCHARD 1	49	Act	A	TNC	16	18	Okanogan
15077	DALLESFORT DOMESTIC WATER SHARERS	30	Act	A	Comm	14	32	Klickitat
238	DALLESFORT INDUSTRIAL PARK	30	Act	A	NTNC	56	0	Klickitat
238	DALLESFORT INDUSTRIAL PARK		Act	A	NTNC	56		Klickitat
8136	DALLESFORT MOBILE HOME PARK	30	Act	A	Comm	44	135	Klickitat
17715	DALLESFORT WATER ASSOCIATION	30	Act	A	Comm	197	398	Klickitat
17765	DAMMAN SCHOOL	39	Act	A	NTNC	2	5	Kittitas
SP202	DAROGA STATE PARK NORTH	44	Act	A	TNC	45	4	Douglas
18100	DAVENPORT WATER DIVISION	53	Act	A	Comm	784	1720	Lincoln
18188	DAWN LEE COURTS	45	Act	A	Comm	35	100	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
18188	DAWN LEE COURTS		Act	A	Comm	35		Chelan
3018	DAWN SONG ORCHARD	48	Act	A	TNC	4	2	Okanogan
18250	DAYTON WATER DEPARTMENT	32	Act	A	Comm	1555	2715	Columbia
18250	DAYTON WATER DEPARTMENT		Act	A	Comm	1555		Columbia
93986	DE CHENNE WATER SYSTEM	40	Act	A	Comm	16	34	Chelan
18375	DEEP CREEK HUTTERITE	54	Act	A	Comm	12	75	Spokane
39003	DEEP CREEK RANCHETTES	54	Act	A	Comm	49	141	Spokane
SP213	DEEP LAKE STATE PARK	42	Act	A	TNC	3	0	Grant
1852	DEER MEADOWS WATER COMPANY INC	53	Act	A	Comm	129	48	Lincoln
1852	DEER MEADOWS WATER COMPANY INC		Act	A	Comm	129		Lincoln
18500	DEER PARK, CITY OF	55	Act	A	Comm	1676	3100	Spokane
18500	DEER PARK, CITY OF		Act	A	Comm	1676		Spokane
19056	DESERT AIRE OWNER ASSN	36	Act	A	Comm	1017	1174	Grant
19056	DESERT AIRE OWNER ASSN		Act	A	Comm	1017		Grant
2498	DESERT CANYON DOMESTIC WATER SYSTEM	44	Act	A	Comm	49	30	Douglas
2498	DESERT CANYON DOMESTIC WATER SYSTEM		Act	A	Comm	49		Douglas
3699	DESERT FOOD MART	37	Act	A	TNC	1	0	Benton
19060	DESERT HOUSE CAFE & GROCERY	31	Act	A	TNC	10	15	Benton
19068	DESERT VILLA	41	Act	A	Comm	44	100	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
19068	DESERT VILLA	42	Act	A	Comm	44	100	Grant
19068	DESERT VILLA		Act	A	Comm	44		Grant
19207	DIAMOND LAKE SEWER DISTRICT	55	Act	A	Comm	617	628	Pendoreille
6536	DIAMOND POINT WATER SYSTEM	41	Act	A	Comm	24	45	Grant
6536	DIAMOND POINT WATER SYSTEM		Act	A	Comm	24		Grant
19480	DIXIE WATER ASSOCIATION	32	Act	A	Comm	93	200	Walla Walla
29808	DOLOMITE WATER SYSTEM	59	Act	A	Comm	17	43	Stevens
23379	DOMINION VIEW WATER ASSN	59	Act	A	Comm	19	36	Stevens
AB519	Dons Fruit Stand	49	Act	A	TNC	1		Okanogan
12994	DOUBLE K CHRISTIAN RETREAT CENTER	39	Act	A	TNC	10	8	Kittitas
19910	DOWNING TOWNSITE WATER DISTRICT	50	Act	A	Comm	50	153	Douglas
19910	DOWNING TOWNSITE WATER DISTRICT		Act	A	Comm	50		Douglas
19927	DRAKES MOBILE HOME PARK	41	Act	A	TNC	52	20	Grant
19943	DRIFTWOOD ACRES MAINTENANCE CORP	39	Act	A	Comm	107	60	Kittitas
20030	DRUSE WATER ASSOCIATION	37	Act	A	Comm	12	32	Yakima
20070	DRY FALLS CAFE	42	Act	A	TNC	3	1	Grant
SP220	DRY FALLS STATE PARK	42	Act	A	TNC	3	3	Grant
20110	DRYDEN COMPLEX	45	Act	A	TNC	24	18	Chelan
20200	DUCK LAKE WATER ASSOCIATION	49	Act	A	Comm	83	175	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
20200	DUCK LAKE WATER ASSOCIATION		Act	A	Comm	83		Okanogan
8425	DUSTY CAFE	35	Act	A	TNC	3	2	Whitman
AB047	Dusty Country Store	35	Act	A	TNC	1	0	Whitman
AA301	EAGLE LAKES RANCH	34	Act	A	TNC	2	3	Franklin
20816	EAGLE ROCK RESORT	38	Act	A	TNC	14	2	Yakima
6384	EAGLE VALLEY CAMPGROUND	39	Act	A	TNC	71	0	Kittitas
4109	EARLY WINTERS CABINS	48	Act	A	TNC	18	0	Okanogan
FS204	EARLY WINTERS WC - METHOW RD	48	Act	A	TNC	13	10	Okanogan
21200	EAST MONITOR WATER ASSN	45	Act	A	Comm	36	80	Chelan
21450	EAST RIDGE PARK WATER CO	37	Act	A	Comm	64	150	Yakima
47145	EAST SIDE LIBERTY LAKE IMP CLUB	57	Act	A	Comm	221	537	Spokane
47145	EAST SIDE LIBERTY LAKE IMP CLUB		Act	A	Comm	221		Spokane
21650	EAST SPOKANE WATER DIST 1	57	Act	A	Comm	1252	3722	Spokane
21650	EAST SPOKANE WATER DIST 1		Act	A	Comm	1252		Spokane
21728	EAST VALLEY MARKET	37	Act	A	TNC	1	0	Yakima
21740	EAST VALLEY MOBILE RANCH	37	Act	A	Comm	62	114	Yakima
21800	EAST WENATCHEE WATER DISTRICT	44	Act	A	Comm	10143	24645	Douglas
21800	EAST WENATCHEE WATER DISTRICT		Act	A	Comm	10143		Douglas
21900	EASTERN WASHINGTON UNIVERSITY	56	Act	A	Comm	1178	2800	Spokane
21900	EASTERN WASHINGTON UNIVERSITY		Act	A	Comm	1178		Spokane



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
26707	EASTLAKE WATER ASSOCIATION	49	Act	A	Comm	22	27	Okanogan
26707	EASTLAKE WATER ASSOCIATION	54	Act	A	Comm	22	27	Okanogan
4302	EATON HILL WINERY WELL	37	Act	A	TNC	3	1	Yakima
22285	EATON PARK SUBDIVISION	31	Act	A	Comm	21	50	Benton
6390	ECHO VALLEY SKI RESORT	47	Act	A	TNC	2	2	Chelan
22340	EDELWEISS MAINTENANCE COMMISSION	48	Act	A	Comm	135	77	Okanogan
22418	EDGEWATER CAMP	37	Act	A	TNC	17	23	Yakima
AA351	EDGEWATER ORCHARDS	44	Act	A	TNC	7	19	Douglas
22550	EDWALL WATER ASSN	43	Act	A	Comm	40	85	Lincoln
22550	EDWALL WATER ASSN		Act	A	Comm	40		Lincoln
22596	EL CORRAL MOTEL	37	Act	A	TNC	18	3	Yakima
3386	EL RINCON RESTAURANT	38	Act	A	TNC	1	0	Yakima
22850	ELECTRIC CITY, TOWN OF	42	Act	A	Comm	467	1200	Grant
22914	ELK PARK CEMETERY DISTRICT	55	Act	A	TNC	1	0	Spokane
22936	ELLENSBURG GOLF AND COUNTRY CLUB	39	Act	A	TNC	1	0	Kittitas
22940	ELLENSBURG KOA	39	Act	A	TNC	106	2	Kittitas
22950	ELLENSBURG WATER DEPT	39	Act	A	Comm	4135	16700	Kittitas
22950	ELLENSBURG WATER DEPT		Act	A	Comm	4135		Kittitas
5797	ELM GROVE RV PARK	37	Act	A	TNC	126	3	Benton
23128	ELM TREE WATER & SEWER ASSN	59	Act	A	Comm	19	27	Stevens
23120	ELMER CITY WATER SYSTEM	51	Act	A	Comm	142	267	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
23120	ELMER CITY WATER SYSTEM	53	Act	A	Comm	142	267	Okanogan
23180	ELOIKA PINES ESTATES MHP	55	Act	A	Comm	55	115	Spokane
23180	ELOIKA PINES ESTATES MHP		Act	A	Comm	55		Spokane
23240	ELTOPIA WATER ASSOCIATION	36	Act	A	Comm	25	100	Franklin
26916	EMANUEL HEIGHTS WATER SYSTEM	49	Act	A	Comm	23	60	Okanogan
23400	ENDICOTT WATER DEPT	34	Act	A	Comm	173	350	Whitman
177	ENERGY, DEPT OF/100K	40	Act	A	NTNC	22	0	Benton
41853	ENERGY, DEPT OF/100N	40	Act	A	NTNC	13	0	Benton
41866	ENERGY, DEPT OF/200E	40	Act	A	NTNC	76	0	Benton
100	ENERGY, DEPT OF/200W	40	Act	A	NTNC	73	0	Benton
41840	ENERGY, DEPT OF/300 AREA	40	Act	A	NTNC	47	0	Benton
41947	ENERGY, DEPT OF/400 AREA	37	Act	A	NTNC	19	0	Benton
41947	ENERGY, DEPT OF/400 AREA	40	Act	A	NTNC	19	0	Benton
13020	ENSIGN RANCH	39	Act	A	TNC	18	8	Kittitas
AA777	Ensign Ranch Girls Camp	39	Act	A	TNC	24	0	Kittitas
23500	ENTIAT, CITY OF	46	Act	A	Comm	503	995	Chelan
23500	ENTIAT, CITY OF		Act	A	Comm	503		Chelan
51856	EPHRATA RACEWAY PARK	41	Act	A	TNC	4	0	Grant
23650	EPHRATA WATER DEPARTMENT	41	Act	A	Comm	2319	6890	Grant
23650	EPHRATA WATER DEPARTMENT	42	Act	A	Comm	2319	6890	Grant
23650	EPHRATA WATER DEPARTMENT		Act	A	Comm	2319		Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
66185	EPIC HEADSTART	37	Act	A	NTNC	1	0	Yakima
66185	EPIC HEADSTART		Act	A	NTNC	1		Yakima
24162	EVERGREEN SCHOOL DISTRICT #205	58	Act	A	NTNC	1	0	Stevens
2150	EVERGREEN VALLEY WATER SYSTEM	39	Act	A	Comm	58	30	Kittitas
2150	EVERGREEN VALLEY WATER SYSTEM		Act	A	Comm	58		Kittitas
24350	FAIRCHILD AIR FORCE BASE	34	Act	A	Comm	1363	4732	Spokane
24350	FAIRCHILD AIR FORCE BASE	54	Act	A	Comm	1363	4732	Spokane
24350	FAIRCHILD AIR FORCE BASE	57	Act	A	Comm	1363	4732	Spokane
24350	FAIRCHILD AIR FORCE BASE		Act	A	Comm	1363		Spokane
24355	FAIRCHILD MOBILE HOME PARK	54	Act	A	Comm	54	98	Spokane
24450	FAIRFIELD, TOWN OF	56	Act	A	Comm	253	586	Spokane
24450	FAIRFIELD, TOWN OF		Act	A	Comm	253		Spokane
24500	FAIRVIEW DOMESTIC WATER ASSN	36	Act	A	Comm	18	75	Adams
6287	FAITH COMMUNITY CHURCH	37	Act	A	TNC	2	4	Yakima
24700	FARMINGTON WATER DEPT	34	Act	A	Comm	76	142	Whitman
24700	FARMINGTON WATER DEPT		Act	A	Comm	76		Whitman
25840	FASMAST INC	55	Act	A	TNC	1	0	Spokane
SP250	FIELD SPRINGS STATE PARK	35	Act	A	TNC	12	3	Asotin
FS250	FIELDS POINT - CHELAN RD	47	Act	A	TNC	2	0	Chelan
25032	FIFE BSA CAMP	38	Act	A	TNC	34	1	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
2558	FINLEY ELEMENTARY SCHOOL (NEW)	31	Act	A	NTNC	1	0	Benton
25115	FINLEY SCHOOL DISTRICT #53	31	Act	A	NTNC	1	0	Benton
25250	FIRST POTHOLES WATER USERS ASSN	41	Act	A	Comm	42	90	Grant
25549	FISHERMANS COVE	60	Act	A	TNC	30	4	Ferry
9639	FISHHOOK PARK	33	Act	A	TNC	45	0	Walla Walla
25555	FISHTRAP LAKE RESORT	34	Act	A	TNC	26	2	Lincoln
25726	FLYING H YOUTH RANCH	38	Act	A	NTNC	8	16	Yakima
25774	FOOTHILLS COMMUNITY CHURCH	55	Act	A	TNC	2	0	Spokane
20446	FOOTHILLS MISSION CHURCH	56	Act	A	TNC	2	5	Spokane
25800	FORDAIR WATER CO-OP INC	42	Act	A	Comm	26	48	Grant
39553	FOREST GLEN WATER SYSTEM	45	Act	A	TNC	22	15	Chelan
SP295	FORT OKANOGAN STATE PARK	50	Act	A	TNC	2	0	Okanogan
SP300	FORT SIMCOE STATE PARK	37	Act	A	TNC	7	4	Yakima
NP280	FORT SPOKANE CAMPGROUND	54	Act	A	TNC	57	2	Lincoln
26200	FOUR LAKES WATER DISTRICT 10	34	Act	A	Comm	157	510	Spokane
26200	FOUR LAKES WATER DISTRICT 10	56	Act	A	Comm	157	510	Spokane
26200	FOUR LAKES WATER DISTRICT 10		Act	A	Comm	157		Spokane
46661	FOUR SEASONS CAMPGROUND	34	Act	A	TNC	43	2	Adams
26460	FREEMAN SCHOOL DIST #358	56	Act	A	NTNC	7	0	Spokane
19208	FRESHWATER WATER COMPANY	41	Act	A	Comm	30	67	Grant
26790	FRUITLAND BIBLE CAMP	58	Act	A	TNC	52	4	Stevens
2873	G & G ORCHARD	38	Act	A	TNC	2	3	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
27195	GARFIELD COUNTY FAIRGROUNDS	35	Act	A	TNC	6	0	Garfield
27200	GARFIELD WATER DEPARTMENT	34	Act	A	Comm	291	630	Whitman
27200	GARFIELD WATER DEPARTMENT		Act	A	Comm	291		Whitman
27395	GEORGE, CITY OF	41	Act	A	Comm	176	538	Grant
27395	GEORGE, CITY OF		Act	A	Comm	176		Grant
4524	GETTYS COVE	40	Act	A	TNC	54	5	Kittitas
NP300	GIFFORD CAMPGROUND	58	Act	A	TNC	18	0	Stevens
FS024	Gillette/Lake Thomas Campground	59	Act	A	TNC	17	0	Stevens
SP315	GINKGO STATE PARK HERITAGE AREA	40	Act	A	TNC	5	3	Kittitas
SP316	GINKGO STATE PARK-NATURAL AREA	40	Act	A	TNC	2	3	Kittitas
1141	GISH WATER SYSTEM	36	Act	A	NTNC	7	22	Franklin
27750	GLACIER SPRINGS WATER ASSN		Act	A	Comm	407		Klickitat
27828	GLEED MOBILE ESTATES	38	Act	A	Comm	36	75	Yakima
28220	GLENWOOD WATER SYSTEM	30	Act	A	Comm	203	480	Klickitat
28220	GLENWOOD WATER SYSTEM		Act	A	Comm	203		Klickitat
89060	GOLDEN PLAINS MHP #1	36	Act	A	Comm	68	149	Adams
28400	GOLDEN VALLEY WATER ASSN	41	Act	A	Comm	44	128	Grant
SP318	GOLDENDALE OBSERVATORY STATE PARK	30	Act	A	TNC	1	0	Klickitat
28450	GOLDENDALE, CITY OF	30	Act	A	Comm	1899	3760	Klickitat
28450	GOLDENDALE, CITY OF		Act	A	Comm	1899		Klickitat



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
76468	GOOD NEIGHBORS WATER ASSN	31	Act	A	Comm	18	40	Benton
3414	GOODNIGHT WATER SYSTEM	31	Act	A	Comm	13	46	Benton
3404	GOOSE GAP WATER ASSOCIATION	37	Act	A	Comm	9	30	Benton
3839	GOOSE PRAIRIE INN	38	Act	A	TNC	1	0	Yakima
62514	GORGE AMPHITHEATRE	41	Act	A	TNC	11	0	Grant
28695	GRAND COULEE DAM	42	Act	A	NTNC	14	0	Grant
28695	GRAND COULEE DAM	53	Act	A	NTNC	14	0	Grant
28700	GRAND COULEE WATER DEPT, CITY OF	42	Act	A	Comm	511	926	Grant
28700	GRAND COULEE WATER DEPT, CITY OF		Act	A	Comm	511		Grant
28900	GRAND RONDE RANCHES #1	35	Act	A	TNC	15	13	Asotin
9701	GRANDVIEW FARMS PASCO - DODD ROAD	32	Act	A	NTNC	9	19	Walla Walla
28970	GRANDVIEW, CITY OF	37	Act	A	Comm	2604	8700	Yakima
28970	GRANDVIEW, CITY OF		Act	A	Comm	2604		Yakima
29000	GRANGER WATER DEPARTMENT	37	Act	A	Comm	603	2835	Yakima
29000	GRANGER WATER DEPARTMENT		Act	A	Comm	603		Yakima
29060	GRANITE POINT PARK	59	Act	A	TNC	117	6	Stevens
29062	GRANITE SHORES WATER SYSTEM		Act	A	TNC	38		Pendoreille
29069	GRANT COUNTY FAIRGROUND	41	Act	A	TNC	503	0	Grant
29069	GRANT COUNTY FAIRGROUND	42	Act	A	TNC	503	0	Grant
29172	GRASSLANDS WATER SYSTEM	39	Act	A	Comm	73	260	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
29335	GREAT NORTHERN SCHOOL DIST #312	54	Act	A	NTNC	2	2	Spokane
1483	GREEN BLUFF WATER ASSN	55	Act	A	Comm	85	115	Spokane
29450	GREEN MEADOWS SUBDIVISION	38	Act	A	Comm	14	39	Yakima
29485	GREEN RIDGE ESTATES	57	Act	A	Comm	32	71	Spokane
29550	GREEN TANK IRR DISTRICT 11	32	Act	A	Comm	169	437	Walla Walla
29550	GREEN TANK IRR DISTRICT 11		Act	A	Comm	169		Walla Walla
29597	GREEN VALLEY ESTATES WATER ASSN	37	Act	A	Comm	15	60	Yakima
29714	GREENBLUFF TRADING POST	55	Act	A	TNC	1	0	Spokane
29903	GRIGGS, MARCUS	44	Act	A	TNC	11	15	Douglas
3698	GROMORE TRADING COMPANY	37	Act	A	TNC	1	0	Yakima
8520	GROVE TERRACE MOBILE PARK	41	Act	A	Comm	88	249	Grant
3287	GUNDERSON NORTHWEST INC	31	Act	A	NTNC	1	0	Benton
NP330	HAAG COVE CAMPGROUND	58	Act	A	TNC	1	0	Ferry
30848	HANGMAN HILLS WATER DIST 15	56	Act	A	Comm	198	508	Spokane
30848	HANGMAN HILLS WATER DIST 15		Act	A	Comm	198		Spokane
19928	HANSON HARBOR HOMEOWNERS ASSN	53	Act	A	Comm	37	27	Lincoln
31400	HARRAH WATER SYSTEM	37	Act	A	Comm	174	550	Yakima
31450	HARRINGTON, CITY OF	43	Act	A	Comm	214	481	Lincoln
AB071	Harrison Well #2	39	Act	A	NTNC	11	0	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
10724	HARRISON-KIONA WATER SYSTEM	37	Act	A	Comm	221	520	Benton
31477	HARRISON-RAY-BURBANK WATER SYSTEM	32	Act	A	Comm	212	656	Walla Walla
31477	HARRISON-RAY-BURBANK WATER SYSTEM		Act	A	Comm	212		Walla Walla
31495	HART CREEK SUMMER HOMES	38	Act	A	TNC	57	2	Yakima
31495	HART CREEK SUMMER HOMES		Act	A	TNC	57		Yakima
31500	HARTLINE WATER SYSTEM	42	Act	A	Comm	74	152	Grant
47671	HARTMANS LOG CABIN RESORT INC	58	Act	A	TNC	133	0	Ferry
HD280	HATTON COULEE REST AREA	36	Act	A	TNC	2	0	Adams
31600	HATTON, TOWN OF	36	Act	A	Comm	40	105	Adams
NP335	HAWK CREEK CAMPGROUND	53	Act	A	TNC	1	0	Lincoln
7956	HAWKS MEADOW WATER SYSTEM	47	Act	A	NTNC	11	11	Chelan
7956	HAWKS MEADOW WATER SYSTEM		Act	A	NTNC	11		Chelan
AA941	Heritage University Water System #1	36	Act	A	NTNC	18	0	Yakima
2141	HGH INC WATER SYSTEM	36	Act	A	TNC	1	0	Adams
85203	HI LO HOMEOWNERS ASSN	36	Act	A	Comm	26	85	Adams
431	HI VALLEY VIEW	37	Act	A	Comm	19	67	Yakima
32642	HIDDEN HILLS ESTATES	56	Act	A	Comm	15	38	Spokane
32648	HIDDEN VALLEY GUEST RANCH	39	Act	A	TNC	15	6	Kittitas
32648	HIDDEN VALLEY GUEST RANCH		Act	A	TNC	15		Kittitas
32653	HIDEAWAY TRAILER PARK	56	Act	A	Comm	71	200	Spokane
33515	HIGH VALLEY MOBILE HOME COURT	39	Act	A	Comm	56	142	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
32736	HIGHLAND ESTATES WATER SYSTEM	36	Act	A	Comm	13	40	Adams
32740	HIGHLAND FIRE CAMP	49	Act	A	TNC	3	0	Okanogan
32745	HIGHLAND HIGH SCHOOL	38	Act	A	NTNC	2	0	Yakima
32745	HIGHLAND HIGH SCHOOL		Act	A	NTNC	2		Yakima
32810	HIGHLAND ORCHARDS	50	Act	A	TNC	3	10	Douglas
6673	HIGHLAND QUICK STOP	38	Act	A	TNC	1	0	Yakima
7937	HILL TOP ACRES	32	Act	A	Comm	15	40	Walla Walla
33200	HILLCREST WATER USERS ASSN	41	Act	A	Comm	126	275	Grant
33200	HILLCREST WATER USERS ASSN		Act	A	Comm	126		Grant
33260	HILLSIDE PARK ADDITION	37	Act	A	Comm	14	45	Yakima
33327	HILLTOP MOBILE HOME PARK	56	Act	A	Comm	34	56	Spokane
33366	HILLVIEW MOBILE HOME COURT	37	Act	A	Comm	58	114	Benton
33365	HILLVIEW WATER ASSN	39	Act	A	Comm	30	95	Yakima
33590	HODGSONS RIVERSIDE SERVICE	55	Act	A	TNC	4	1	Spokane
33666	HOLDEN VILLAGE	47	Act	A	Comm	46	60	Chelan
33680	HOLIDAY SHORES WATER SYSTEM		Act	A	TNC	24		Pendoreille
1576	HOMESTEAD MOBILE HOME PARK	49	Act	A	Comm	32	80	Okanogan
14313	Honeywell Electronic Mfg LLC	57	Act	A	NTNC	1	0	Spokane
9651	HOOD PARK	33	Act	A	TNC	15	0	Walla Walla
7903	HORN RAPIDS PARK WATER SYSTEM	37	Act	A	TNC	22	0	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
HD300	HORN SCHOOL REST AREA	34	Act	A	TNC	1	0	Whitman
NP380	HUNTERS CAMPGROUND	58	Act	A	TNC	1	0	Stevens
34889	HUNTERS WATER DISTRICT	58	Act	A	Comm	74	160	Stevens
35100	HUTCHINSON IRRIGATION DIST #16	57	Act	A	Comm	790	2293	Spokane
35100	HUTCHINSON IRRIGATION DIST #16		Act	A	Comm	790		Spokane
35275	HYDRO IRRIGATION DISTRICT #9	32	Act	A	Comm	99	240	Walla Walla
35275	HYDRO IRRIGATION DISTRICT #9		Act	A	Comm	99		Walla Walla
9677	ICE HARBOR DAM	33	Act	A	NTNC	2	0	Walla Walla
FS385	ICE WATER CG/CLE ELUM RD	39	Act	A	TNC	1	0	Kittitas
7744	IGLESIA BETHEL	36	Act	A	TNC	3	7	Adams
7402	INABA FARMS/PEPPERFIELD VILLAGE	37	Act	A	TNC	4	0	Yakima
35550	INCHELIUM WATER DISTRICT	58	Act	A	Comm	207	346	Ferry
7334	INDIAN CAMP - BUCKHORN MT ORCHARD	48	Act	A	TNC	16	3	Okanogan
FS394	INDIAN CREEK - NACHES RD	38	Act	A	TNC	195	0	Yakima
HD331	INDIAN JOHN REST AREA (EB/WB)	39	Act	A	TNC	2	0	Kittitas
12028	INDIAN VILLAGE ESTATES WATER ASSN	54	Act	A	Comm	32	80	Spokane
12028	INDIAN VILLAGE ESTATES WATER ASSN		Act	A	Comm	32		Spokane
92023	Industrial Development Complex	40	Act	A	NTNC	16	0	Benton
AB186	Inland Tarp & Cover	41	Act	A	TNC	1		Grant



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
35900	IONE WATER DEPT		Act	A	Comm	263		Pendoreille
7696	IRENE RHINEHART PARK	39	Act	A	TNC	1	0	Kittitas
36050	IRVIN WATER DISTRICT #6	57	Act	A	Comm	773	2378	Spokane
36050	IRVIN WATER DISTRICT #6		Act	A	Comm	773		Spokane
36087	ISENHART IRRIGATION DISTRICT	47	Act	A	Comm	15	30	Chelan
36466	JACKS RESORT	44	Act	A	TNC	4	0	Douglas
36465	JACKS RV PARK 1	49	Act	A	TNC	58	1	Okanogan
36600	JAMESON LAKE RESORT	44	Act	A	TNC	35	0	Douglas
8246	JAW FARMS INC	49	Act	A	Comm	91	76	Okanogan
23175	JERRYS LANDING	55	Act	A	TNC	25	11	Spokane
7335	JN CAMP - BUCKHORN MT ORCHARDS	49	Act	A	TNC	24	2	Okanogan
17631	JOHNS LANDING MOBILE HOME PARK	49	Act	A	Comm	55	150	Okanogan
39411	JOHNSON CREEK WATER USERS ASSN	49	Act	A	Comm	27	48	Okanogan
11174	JR SIMPLOT CO	41	Act	A	NTNC	1	0	Grant
5219	JUBILEE YOUTH RANCH	33	Act	A	Comm	18	65	Walla Walla
37170	JUMP OFF JOE LAKE RESORT	59	Act	A	TNC	15	7	Stevens
AA860	K2 Mine	60	Act	A	NTNC	3	0	Ferry
11445	K2H FARMS-HIGGY WATER SYSTEM	33	Act	A	Comm	10	35	Walla Walla
37336	K2H FARMS-SHOP & OFFICE	33	Act	A	NTNC	5	5	Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
FS446	KACHESS CAMPGROUND/CLE ELUM RD	39	Act	A	TNC	70	0	Kittitas
37378	KACHESS COMMUNITY ASSOCIATION	39	Act	A	TNC	113	12	Kittitas
41991	KAHLER GLEN GOLF & SKI RESORT	45	Act	A	Comm	103	40	Chelan
41991	KAHLER GLEN GOLF & SKI RESORT		Act	A	Comm	103		Chelan
41991	KAHLER GLEN GOLF & SKI RESORT		Act	A	Comm	103		Chelan
37400	KAHLOTUS, CITY OF	36	Act	A	Comm	99	191	Franklin
37450	KAISER ALUM - TRENTWOOD WORKS	57	Act	A	NTNC	2	0	Spokane
37580	KAMIAK BUTTE COUNTY PARK	34	Act	A	TNC	9	4	Whitman
NP460	KAMLOOPS ISLAND CAMPGROUND	60	Act	A	TNC	1	0	Stevens
37620	KAMPGROUNDS OF AMERICA	37	Act	A	Comm	99	30	Yakima
FS450	KANER FLAT CG/NACHES RD	38	Act	A	TNC	1	0	Kittitas
6520	KANIKSU RANCH WATER SYSTEM	59	Act	A	TNC	80	0	Stevens
37921	KB ALLOYS INC	40	Act	A	NTNC	1	0	Chelan
NP470	KELLER FERRY CAMPGROUND	53	Act	A	TNC	7	0	Lincoln
HD340	KELLER FERRY LANDING	53	Act	A	TNC	3	5	Lincoln
NP469	KELLER FERRY MARINA	53	Act	A	TNC	5	0	Lincoln
53263	KELLEYS ESTATES	31	Act	A	Comm	51	85	Benton
37980	KELLYS RESORT	47	Act	A	TNC	18	2	Chelan
38100	KENNEWICK, CITY OF	31	Act	A	Comm	20531	64144	Benton
17189	KEPS ACRES ASSOCIATION	33	Act	A	Comm	14	48	Franklin
38280	KERSHAW FRUIT COMPANY	38	Act	A	NTNC	1	0	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
38400	KETTLE FALLS WATER DEPT	59	Act	A	Comm	983	2890	Stevens
38400	KETTLE FALLS WATER DEPT		Act	A	Comm	983		Stevens
NP495	KETTLE RIVER CAMPGROUND	60	Act	A	TNC	1	0	Ferry
AA858	Key Mill Facility	58	Act	A	NTNC	3	0	Ferry
53220	KID - LID 501	37	Act	A	Comm	116	307	Benton
53220	KID - LID 501	40	Act	A	Comm	116	307	Benton
53220	KID - LID 501	40	Act	A	Comm	116		Benton
23340	KID - LID 502	31	Act	A	Comm	44	117	Benton
42175	KIONA VILLAGE COURT		Act	A	Comm	51		Benton
42175	KIONA VILLAGE COURT	37	Act	A	Comm	51	108	Benton
16589	KIONA WEST HEIGHTS WATER ASSN	37	Act	A	Comm	31	75	Benton
74100	KITTITAS CO WD #2	39	Act	A	Comm	110	225	Kittitas
74100	KITTITAS CO WD #2		Act	A	Comm	110		Kittitas
42700	KITTITAS COUNTY WATER DIST 3	39	Act	A	Comm	188	250	Kittitas
42700	KITTITAS COUNTY WATER DIST 3		Act	A	Comm	188		Kittitas
42704	KITTITAS COUNTY WATER DISTRICT #5	39	Act	A	Comm	304	600	Kittitas
42704	KITTITAS COUNTY WATER DISTRICT #5		Act	A	Comm	304		Kittitas
85295	KITTITAS COUNTY WATER DISTRICT #7	39	Act	A	Comm	191	309	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
85295	KITTITAS COUNTY WATER DISTRICT #7		Act	A	Comm	191		Kittitas
42447	KITTITAS COUNTY WATER DISTRICT 4	39	Act	A	Comm	92	230	Kittitas
42650	KITTITAS, CITY OF	39	Act	A	Comm	439	1238	Kittitas
42650	KITTITAS, CITY OF		Act	A	Comm	439		Kittitas
42775	KLEMGARD COUNTY PARK	34	Act	A	TNC	10	2	Whitman
15427	KLICKEER WATER SYSTEM 1	32	Act	A	TNC	4	4	Walla Walla
42800	KLICKITAT WATER SYSTEM	30	Act	A	Comm	172	450	Klickitat
42800	KLICKITAT WATER SYSTEM		Act	A	Comm	172		Klickitat
7443	KLINGEMAN WELL	36	Act	A	NTNC	7	17	Adams
FS471	KLIPCHUCK CG - METHOW RD	48	Act	A	TNC	23	0	Okanogan
34751	KOOSKOOSKIE CABIN OWNERS ASSN	32	Act	A	TNC	42	29	Walla Walla
6605	KPM WATER SYSTEM	60	Act	A	TNC	18	1	Ferry
88888	KPS Gas & Grocer	32	Act	A	TNC	1	0	Walla Walla
43282	KWIK LOK CORPORATION	37	Act	A	NTNC	1	0	Yakima
43400	LACROSSE, TOWN OF	34	Act	A	Comm	214	380	Whitman
43529	LAFFERTYS SOUTHSORE WATER SYSTEM	47	Act	A	TNC	62	19	Chelan
43783	LAKE CHELAN RECLAMATION DISTRICT	47	Act	A	Comm	1461	3154	Chelan
43783	LAKE CHELAN RECLAMATION DISTRICT		Act	A	Comm	1461		Chelan
SP360	LAKE CHELAN STATE PARK	47	Act	A	TNC	68	4	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
43785	LAKE CHELAN YACHT CLUB	47	Act	A	TNC	124	0	Chelan
43788	LAKE CLE ELUM COMMUNITY CLUB	39	Act	A	TNC	28	26	Kittitas
43870	LAKE EASTON RESORT	39	Act	A	TNC	181	1	Kittitas
SP380	LAKE EASTON STATE PARK EAST	39	Act	A	TNC	11	8	Kittitas
SP013	LAKE EASTON STATE PARK WEST	39	Act	A	TNC	58	0	Kittitas
14691	LAKE RIDGE HILLS WATER ASSN	42	Act	A	Comm	14	29	Grant
14691	LAKE RIDGE HILLS WATER ASSN		Act	A	Comm	14		Grant
44960	LAKE THOMAS ESTATE WATER SVCS INC	59	Act	A	TNC	25	5	Stevens
FS516	LAKE WENATCHEE RANGER STATION	45	Act	A	TNC	19	10	Chelan
SP431	LAKE WENATCHEE STATE PARK SOUTH SI	45	Act	A	TNC	33	5	Chelan
45067	LAKE WENATCHEE VILLAGE	45	Act	A	TNC	6	9	Chelan
45073	LAKE WENATCHEE WATER USERS	45	Act	A	TNC	40	12	Chelan
6745	LAKEFRONT RV PARK	41	Act	A	TNC	52	6	Grant
45140	LAKESHORE MOBILE HOME COURT	41	Act	A	Comm	50	100	Grant
33489	LAKESIDE PARK	58	Act	A	Comm	29	75	Ferry
45312	LAKEVIEW MOBILE TERRACE	41	Act	A	Comm	29	29	Grant
45350	LAKEVIEW PARK WATER ASSN	42	Act	A	Comm	339	1011	Grant
45366	LAKEVIEW TERRACE MHP	53	Act	A	Comm	75	125	Lincoln
45366	LAKEVIEW TERRACE MHP		Act	A	Comm	75		Lincoln
7155	Lakeview Utilities	47	Act	A	Comm	6	28	Chelan
7155	Lakeview Utilities		Act	A	Comm	6		Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
73920	LAMB-WESTON PASCO	36	Act	A	NTNC	1	0	Franklin
45650	LAMONT WATER SYSTEM	34	Act	A	Comm	42	88	Whitman
45650	LAMONT WATER SYSTEM		Act	A	Comm	42		Whitman
45800	LANDOWNERS WATER ASSOCIATION	36	Act	A	Comm	14	28	Franklin
4491	LAST RESORT WATER SYSTEM	35	Act	A	TNC	37	2	Columbia
46150	LATAH, TOWN OF	56	Act	A	Comm	94	196	Spokane
46150	LATAH, TOWN OF		Act	A	Comm	94		Spokane
46219	LAURA LEE MOBILE HOME PARK	37	Act	A	Comm	48	72	Yakima
85152	LAURENTS SUN VILLAGE RESORT	42	Act	A	TNC	89	4	Grant
46442	LAZY ACRES MOBILE HOME PARK	41	Act	A	Comm	41	164	Grant
86273	LAZY DAZE RV PARK	49	Act	A	TNC	16	12	Okanogan
46452	Lazy F Camp & Retreat Center	39	Act	A	TNC	11	8	Kittitas
FS519	LEAVENWORTH SKI HILL/LEAVENWORTH	45	Act	A	TNC	2	0	Chelan
46500	LEAVENWORTH, CITY OF	45	Act	A	Comm	1012	2350	Chelan
46500	LEAVENWORTH, CITY OF		Act	A	Comm	1012		Chelan
46940	LEVEY PARK	33	Act	A	TNC	2	0	Franklin
SP470	LEWIS & CLARK TRAIL STATE PARK	32	Act	A	TNC	26	2	Columbia
46985	LEWIS BROTHERS INC	34	Act	A	Comm	49	76	Spokane
47095	LIARS COVE	49	Act	A	TNC	5	0	Okanogan
943	LIBERTY BELL HIGH SCHOOL	48	Act	A	NTNC	3	0	Okanogan
943	LIBERTY BELL HIGH SCHOOL		Act	A	NTNC	3		Okanogan
28370	LIBERTY CAFE	39	Act	A	TNC	2	3	Kittitas



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
47150	LIBERTY LAKE SEWER & WATER DISTRICT	57	Act	A	Comm	2003	5008	Spokane
47150	LIBERTY LAKE SEWER & WATER DISTRICT		Act	A	Comm	2003		Spokane
47163	LIBERTY SCHOOL DISTRICT #362	56	Act	A	NTNC	5	9	Spokane
7093	LIGO WATER SYSTEM	37	Act	A	NTNC	4	0	Benton
SP475	LINCOLN ROCK STATE PARK	45	Act	A	TNC	101	2	Douglas
47350	LIND, TOWN OF	41	Act	A	Comm	302	465	Adams
49120	Little Butte Water System		Act	A	Comm	31		Chelan
49120	Little Butte Water System	47	Act	A	Comm	31	48	Chelan
47525	LITTLE GOOSE DAM	35	Act	A	NTNC	1	0	Columbia
FS565	LODGEPOLE/NACHES RD	38	Act	A	TNC	1	0	Yakima
47820	LOMBARD LOOP WATER ASSOCIATION	37	Act	A	Comm	70	180	Yakima
47900	LONE PINE WATER ASSN	53	Act	A	Comm	24	32	Okanogan
48065	LONG LAKE SHORES	42	Act	A	TNC	25	8	Grant
2842	LONGVIEW FIBRE PAPER & PACKAGING	45	Act	A	NTNC	2	0	Chelan
48200	LOOMIS WATER USERS ASSN INC	49	Act	A	Comm	93	200	Okanogan
48200	LOOMIS WATER USERS ASSN INC		Act	A	Comm	93		Okanogan
38651	LOON LAKE ACRES	59	Act	A	Comm	48	111	Stevens
38651	LOON LAKE ACRES		Act	A	Comm	48		Stevens
22997	Los Reyes Inc	49	Act	A	TNC	5	0	Okanogan
FS585	LOST LAKE CG - TONASKET RD	60	Act	A	TNC	32	0	Okanogan
48348	LOST RIVER AIRPORT ASSOCIATION	48	Act	A	TNC	170	24	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
48348	LOST RIVER AIRPORT ASSOCIATION	49	Act	A	TNC	170	24	Okanogan
AA986	LOUP LOUP SKI EDUCATION FOUNDATION	48	Act	A	TNC	4	0	Okanogan
48705	LOWER GRANITE LOCK & DAM	35	Act	A	NTNC	3	0	Garfield
48720	LOWER MONUMENTAL DAM - NORTH	33	Act	A	NTNC	2	0	Franklin
AA220	LUNDGREN WATER SYSTEM	32	Act	A	TNC	1	0	Walla Walla
49000	LYLE WATER SYSTEM	30	Act	A	Comm	285	455	Klickitat
49000	LYLE WATER SYSTEM		Act	A	Comm	285		Klickitat
14051	LYONS FERRY HATCHERY	34	Act	A	TNC	12	23	Franklin
49385	LYONS FERRY MARINA	33	Act	A	TNC	5	4	Columbia
AA345	LYONS FERRY PARK	34	Act	A	TNC	20	0	Franklin
AA796	Lyons Water System	41	Act	A	Comm	13	31	Grant
26101	Lytle Water System	45	Act	A	TNC	2	5	Chelan
49515	M J TRAILER RANCH	49	Act	A	Comm	44	100	Okanogan
49650	MABTON, CITY OF	37	Act	A	Comm	671	2045	Yakima
49650	MABTON, CITY OF		Act	A	Comm	671		Yakima
7359	MAC THOM ORCHARDS	41	Act	A	TNC	9	12	Grant
9614	MADAME DORION PARK	32	Act	A	TNC	3	0	Walla Walla
50500	MALAGA WATER DISTRICT	40	Act	A	Comm	361	890	Chelan
50500	MALAGA WATER DISTRICT		Act	A	Comm	361		Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
50550	MALDEN WATER DEPT	34	Act	A	Comm	126	215	Whitman
50550	MALDEN WATER DEPT		Act	A	Comm	126		Whitman
4193	MALLARD BAY RESORT	43	Act	A	TNC	42	6	Spokane
19185	MALLARD HAVEN WATER COMPANY	41	Act	A	TNC	26	22	Grant
FS106	MANASTASH CG/CLE ELUM RD	39	Act	A	TNC	1	0	Kittitas
51915	MANHASSET SPECIALTY COMPANY	38	Act	A	NTNC	3	0	Yakima
50850	MANSFIELD WATER SYSTEM	50	Act	A	Comm	200	380	Douglas
62476	MANY'S CHINOOK CENTER	38	Act	A	TNC	1	0	Yakima
87779	MAR DON RESORT	41	Act	A	TNC	179	13	Grant
51560	MARCUS WHITMAN SCHOOL	38	Act	A	NTNC	1	0	Yakima
51560	MARCUS WHITMAN SCHOOL		Act	A	NTNC	1		Yakima
51724	MARINE VIEW HOME OWNERS ASSN	41	Act	A	Comm	36	87	Grant
AA503	MARLIN HUTTERIAN	43	Act	A	Comm	16	86	Grant
51845	MARSHALL COMMUNITY WATER ASSN	56	Act	A	Comm	30	74	Spokane
51877	MARTIN CREEK COMMUNITY ASSN	58	Act	A	Comm	36	73	Ferry
25041	MARYHILL MUSEUM OF ART	30	Act	A	TNC	2	1	Klickitat
SP510	MARYHILL STATE PARK	30	Act	A	TNC	104	4	Klickitat
AA411	MARYHILL WINERY	30	Act	A	TNC	2	2	Klickitat
51899	MARYS GARDEN	38	Act	A	Comm	109	350	Yakima
7263	MATHISON BOB ORCHARDS - STAYMAN	47	Act	A	TNC	8	17	Chelan
52000	MATTAWA WATER SYSTEM	36	Act	A	Comm	802	3290	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
52000	MATTAWA WATER SYSTEM		Act	A	Comm	802		Grant
34216	MAZAMA STORE	48	Act	A	TNC	2	1	Okanogan
96570	MC CORKLES MARKET	37	Act	A	TNC	2	6	Benton
52154	MCAULEYS HOME SITES	37	Act	A	Comm	23	55	Yakima
53190	MEADOW LANE WATER ASSN	41	Act	A	Comm	23	56	Adams
5848	MEADOW PARK WATER SYSTEM	36	Act	A	Comm	13	48	Grant
53400	MEDICAL LAKE, CITY OF	34	Act	A	Comm	1269	3425	Spokane
53400	MEDICAL LAKE, CITY OF	54	Act	A	Comm	1269	3425	Spokane
53400	MEDICAL LAKE, CITY OF		Act	A	Comm	1269		Spokane
AB377	Memorial Bible Church	37	Act	A	TNC	3		Yakima
54100	MESA WATER DEPARTMENT	36	Act	A	Comm	148	440	Franklin
54100	MESA WATER DEPARTMENT		Act	A	Comm	148		Franklin
8167	MESEBERG WATER SYSTEM	41	Act	A	TNC	3	3	Grant
54350	METALINE WATER DEPT		Act	A	Comm	86		Pendoreille
97744	METHOW VALLEY KOA CAMPGROUND	48	Act	A	TNC	72	0	Okanogan
54370	METHOW WATER SYSTEM INC	48	Act	A	Comm	22	25	Okanogan
54380	METZ WATER ASSOCIATION	31	Act	A	Comm	90	250	Benton
41716	MIDWAY MINI-MART	41	Act	A	TNC	2	3	Grant
30418	MIDWAY STOP	55	Act	A	TNC	2	8	Spokane
54535	MIDWAY VILLAGE & GROCERY	45	Act	A	TNC	23	7	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
10701	MILL CREEK PROJECT OFFICE	32	Act	A	TNC	2	0	Walla Walla
54730	MILLERS ONE STOP	55	Act	A	TNC	2	3	Spokane
54775	MILLPOND MOBILE MANOR	39	Act	A	Comm	105	245	Kittitas
54850	MILLWOOD, TOWN OF	57	Act	A	Comm	700	1720	Spokane
54850	MILLWOOD, TOWN OF		Act	A	Comm	700		Spokane
FS634	MINERAL SPRINGS CG/CLE ELUM RD	39	Act	A	TNC	3	0	Kittitas
55046	MINERAL SPRINGS RESORT	39	Act	A	TNC	5	2	Kittitas
11161	MINI-PEARL WATER SYSTEM	33	Act	A	Comm	9	27	Walla Walla
20327	MINOR ADDITION WATER SUPPLY	30	Act	A	TNC	8	15	Klickitat
55335	MISSION RIDGE SKI AREA WATER SYSTEM	40	Act	A	TNC	5	0	Chelan
30434	MISSION RIDGE WATER SYSTEM	59	Act	A	Comm	31	93	Stevens
55440	MOAB IRRIGATION DIST #20	57	Act	A	Comm	610	1700	Spokane
55440	MOAB IRRIGATION DIST #20		Act	A	Comm	610		Spokane
55550	MODEL IRRIGATION DIST #18	57	Act	A	Comm	2438	5078	Spokane
55550	MODEL IRRIGATION DIST #18		Act	A	Comm	2438		Spokane
55600	MODERN ELECTRIC WATER CO	57	Act	A	Comm	4315	10788	Spokane
55600	MODERN ELECTRIC WATER CO		Act	A	Comm	4315		Spokane
55630	MOLSON WATER USERS	49	Act	A	TNC	21	12	Okanogan
7024	Monsanto Co.	36	Act	A	TNC	2	0	Adams

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
56261	MOORES BLUE LAKE WATER SYSTEM	42	Act	A	TNC	18	3	Grant
641	MORNING SUN ESTATES WATER SYSTEM	47	Act	A	TNC	22	4	Chelan
5914	MOSES COULEE WATER ASSOCIATION	44	Act	A	Comm	16	32	Douglas
AA598	MOSES LAKE GOLF & COUNTRY CLUB	41	Act	A	NTNC	1	0	Grant
56303	Moses Lake Irrig & Rehab District	41	Act	A	TNC	1	0	Grant
56300	MOSES LAKE, CITY OF	41	Act	A	Comm	7063	19661	Grant
56300	MOSES LAKE, CITY OF		Act	A	Comm	7063		Grant
41140	MOUNT ADAMS VISTA WATER SYSTEM	37	Act	A	Comm	13	34	Benton
56620	MOUNT SPOKANE SKI #1	57	Act	A	TNC	1	0	Spokane
56621	MOUNT SPOKANE SKI #2	57	Act	A	TNC	2	0	Spokane
56557	MOUNT ST MICHAELS SCHOOL & CHURCH	55	Act	A	NTNC	6	89	Spokane
AA495	MOUNTAIN RANCH ADVENTURES	45	Act	A	TNC	3	0	Chelan
20527	MOUNTAIN VIEW ASSOCIATION	30	Act	A	Comm	21	42	Klickitat
56830	MOUNTAIN VIEW MOBIL HOMES	37	Act	A	Comm	40	146	Yakima
57200	MOUNTAINVIEW ELEMENTARY SCHOOL	37	Act	A	NTNC	1	0	Yakima
57300	MOXEE WATER DEPARTMENT	37	Act	A	Comm	696	1714	Yakima
53990	MR QWIKS COUNTRY STORE	36	Act	A	TNC	4	6	Franklin
56390	MT ADAMS COUNTRY CLUB	37	Act	A	TNC	2	1	Yakima
56851	MT VIEW TRACTS	37	Act	A	Comm	16	31	Benton
57598	MULLEN HILL TERRACE MHP	56	Act	A	Comm	118	207	Spokane
57598	MULLEN HILL TERRACE MHP		Act	A	Comm	118		Spokane



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP-ULATION	COUNTY
682	MURDOCK WATER	30	Act	A	Comm	33	62	Klickitat
35815	MUTUAL MATERIALS COMPANY	56	Act	A	NTNC	1	0	Spokane
35815	MUTUAL MATERIALS COMPANY	57	Act	A	NTNC	1	0	Spokane
7219	NACHES FARMER	38	Act	A	TNC	1	0	Yakima
58105	NACHES WONDERLAND CAMPERS ASSN	38	Act	A	TNC	69	2	Yakima
58100	NACHES, TOWN OF	38	Act	A	Comm	360	755	Yakima
1971	NACO CAMPGROUND - LITTLE DIAMOND	55	Act	A	TNC	401	5	Pendoreille
20788	NAGLER ESTATES WATER USERS ASSN	39	Act	A	Comm	19	54	Yakima
FS671	NASON CREEK CG/LAKE WENATCHEE RD	45	Act	A	TNC	26	0	Chelan
HD515	NASON CREEK REST AREA	45	Act	A	TNC	1	0	Chelan
8361	NATIONAL FOOD CORP - LIND	36	Act	A	NTNC	20	1	Adams
35725	NC MACHINERY CO	37	Act	A	NTNC	1	0	Yakima
58650	NEALS VALLEY VIEW ADDITION WTR CO	37	Act	A	Comm	25	62	Yakima
AB203	Nefarious Cellars Winery	47	Act	A	TNC	2	2	Chelan
52745	NELSON & NOACK WATER SYSTEM	44	Act	A	TNC	17	20	Douglas
59000	NESPELEM WATER DEPT	51	Act	A	Comm	189	510	Okanogan
59020	NEW COLUMBIA WATER ASSN	41	Act	A	Comm	74	220	Grant
31471	NEW HOPE FARMS	31	Act	A	Comm	9	36	Klickitat
51151	NEW HORIZONS	39	Act	A	Comm	11	40	Yakima
6083	NEWPORT SOUTHERN BAPTIST CHURCH	55	Act	A	TNC	1	0	Pendoreille

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
59350	NEWPORT, CITY OF		Act	A	Comm	684		Pendoreille
4513	NILE VALLEY COMMUNITY CHURCH	38	Act	A	TNC	2	2	Yakima
6559	NINE CANYON RANCH	31	Act	A	Comm	15	49	Benton
4559	NINE MILE FALLS COMMUNITY CHURCH	54	Act	A	TNC	2	0	Spokane
59543	Nine Mile Falls SD #325 Elementary	54	Act	A	NTNC	2	0	Spokane
59553	NINE MILE RESORT	54	Act	A	TNC	30	0	Spokane
59555	NINE MILE STORE	54	Act	A	TNC	3	4	Spokane
59700	NOB HILL WATER ASSOCIATION	37	Act	A	Comm	9475	23687	Yakima
59700	NOB HILL WATER ASSOCIATION		Act	A	Comm	9475		Yakima
7143	NOEL CANNING	37	Act	A	NTNC	1	0	Yakima
61250	NORTH 16 DOMESTIC WATER ASSN	36	Act	A	Comm	14	60	Franklin
60520	NORTH GLEN WATER ASSOCIATION	55	Act	A	Comm	34	104	Spokane
33301	NORTH LAKE ROOSEVELT RESORT	60	Act	A	TNC	49	12	Ferry
17720	NORTH PROSSER MARKET	37	Act	A	TNC	5	15	Benton
26111	NORTH ROOSEVELT WATER ASSN	31	Act	A	TNC	15	18	Klickitat
3370	NORTH SHORE ACRES	42	Act	A	Comm	28	53	Grant
3370	NORTH SHORE ACRES		Act	A	Comm	28		Grant
10761	NORTH SLOPE ESTATES PROPERTY	36	Act	A	Comm	31	97	Franklin
61300	NORTH SPOKANE IRRIGATION DISTRICT 8	55	Act	A	Comm	667	1668	Spokane
61300	NORTH SPOKANE IRRIGATION DISTRICT 8		Act	A	Comm	667		Spokane
61425	NORTH TERRA VISTA WATER USERS ASSN	37	Act	A	Comm	18	52	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
61480	NORTH TWIN LAKEVIEW ASSN	58	Act	A	Comm	98	51	Ferry
85140	NORTHWEST BEDDING CO	56	Act	A	NTNC	2	0	Spokane
2744	NORTHWEST WHOLESALE	45	Act	A	TNC	4	0	Chelan
62695	OAKDELL EGG FARMS INC	36	Act	A	NTNC	8	23	Franklin
62700	OAKESDALE, TOWN OF	34	Act	A	Comm	234	438	Whitman
19069	OASIS WATER CORPORATION	37	Act	A	Comm	159	332	Benton
63050	ODESSA	43	Act	A	Comm	483	957	Lincoln
63050	ODESSA		Act	A	Comm	483		Lincoln
34314	OKANOGAN COUNTY FAIR WATER SYSTEM	49	Act	A	TNC	105	0	Okanogan
63200	OKANOGAN WATER DEPARTMENT, CITY OF	49	Act	A	Comm	823	2435	Okanogan
63200	OKANOGAN WATER DEPARTMENT, CITY OF		Act	A	Comm	823		Okanogan
7748	OLD ORCHARD ESTATES WATER SYSTEM	49	Act	A	Comm	20	42	Okanogan
SP615	OLMSTEAD PLACE ST PARK	39	Act	A	TNC	4	3	Kittitas
63750	OMAK, CITY OF	49	Act	A	Comm	1894	4705	Okanogan
63750	OMAK, CITY OF		Act	A	Comm	1894		Okanogan
63917	ONECHO BIBLE CHURCH	35	Act	A	TNC	1	0	Whitman
64000	ORCHARD AVENUE IRRIGATION DIST 6	57	Act	A	Comm	1186	3130	Spokane
64000	ORCHARD AVENUE IRRIGATION DIST 6		Act	A	Comm	1186		Spokane
64080	ORCHARD HOMES WATER SYSTEM	41	Act	A	Comm	14	31	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
64300	ORIENT WATER COMPANY	60	Act	A	Comm	51	100	Ferry
6475	ORO BEACH RV RESORT	49	Act	A	TNC	34	0	Okanogan
5676	ORONDO FRUIT COMPANY INC	44	Act	A	NTNC	2	1	Douglas
68800	ORONDO RIVER PARK	44	Act	A	TNC	16	0	Douglas
4907	ORONDO SCHOOL	44	Act	A	NTNC	1	0	Douglas
64380	ORONDO WATER SYSTEM	44	Act	A	TNC	8	20	Douglas
2479	OROVILLE CONG.OF JEHOVAHS WITNESSES	49	Act	A	TNC	2	0	Okanogan
27691	OROVILLE GOLF CLUB	49	Act	A	TNC	2	1	Okanogan
64400	OROVILLE, CITY OF	49	Act	A	Comm	1354	2260	Okanogan
64400	OROVILLE, CITY OF		Act	A	Comm	1354		Okanogan
SP617	OSOYOOS LAKE STATE PARK	49	Act	A	TNC	19	4	Okanogan
16001	OSULLIVAN SPORTSMENS RESORT	41	Act	A	TNC	177	4	Grant
64845	OTHELLO MANOR WATER SYSTEM	36	Act	A	Comm	151	400	Adams
64850	OTHELLO WATER DEPARTMENT	41	Act	A	Comm	2050	6050	Adams
41522	OUR LADY OF VALLEY CATHOLIC CHURCH	49	Act	A	TNC	2	1	Okanogan
64937	OUTLOOK COMMUNITY WATER	37	Act	A	Comm	66	282	Yakima
64940	OUTLOOK ELEMENTARY SCHOOL	37	Act	A	NTNC	1	0	Yakima
55730	OUTPOST SALOON	45	Act	A	TNC	4	3	Chelan
65017	OVERLAND STATION	56	Act	A	TNC	37	13	Spokane
65066	OX TEAM ORCHARD	44	Act	A	TNC	24	19	Douglas
7870	P AND G ORCHARDS CAMP 2	49	Act	A	Comm	31	116	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
7871	P AND G ORCHARDS CAMP 3	49	Act	A	Comm	19	42	Okanogan
27112	PACE INTERNATIONAL	37	Act	A	NTNC	5	0	Yakima
65640	PAINTED HILLS WATER ASSOCIATION	41	Act	A	Comm	22	67	Grant
65720	PALISADES SCHOOL	44	Act	A	NTNC	3	2	Douglas
8259	PALMER LAKE LAND COMPANY	49	Act	A	TNC	8	14	Okanogan
65785	PALOUSE EMPIRE FAIRGROUNDS	34	Act	A	TNC	96	1	Whitman
SP630	PALOUSE FALLS STATE PARK	34	Act	A	TNC	8	0	Franklin
65800	PALOUSE WATER DEPT, CITY OF	34	Act	A	Comm	465	1000	Whitman
2328	PANORAMA MOBILE HOME PARK	59	Act	A	Comm	49	60	Stevens
65919	PANORAMA PLACE WATER ASSN	37	Act	A	Comm	47	220	Yakima
22881	PARKER SPRING WATER	41	Act	A	Comm	94	328	Grant
22881	PARKER SPRING WATER		Act	A	Comm	94		Grant
24064	Parkview Terrace Mobile Home Park	54	Act	A	Comm	32	100	Spokane
24064	Parkview Terrace Mobile Home Park	55	Act	A	Comm	32	100	Spokane
24064	Parkview Terrace Mobile Home Park		Act	A	Comm	32		Spokane
66300	PASADENA PARK IRR DIST 17	57	Act	A	Comm	2095	5238	Spokane
66300	PASADENA PARK IRR DIST 17		Act	A	Comm	2095		Spokane
1487	PASCO GOLFLAND INC	36	Act	A	TNC	2	3	Franklin
66350	PASCO HEIGHTS DOMESTIC WATER ASSN	36	Act	A	Comm	44	135	Franklin
66400	PASCO WATER DEPARTMENT	36	Act	A	Comm	11771	44190	Franklin

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
66400	PASCO WATER DEPARTMENT		Act	A	Comm	11771		Franklin
68825	PASCO, PORT OF 210	36	Act	A	NTNC	75	0	Franklin
66450	PATEROS WATER DEPARTMENT	48	Act	A	Comm	253	615	Okanogan
66475	PATERSON ELEMENTARY SCHOOL	31	Act	A	NTNC	3	8	Benton
66479	PATERSON HEIGHTS WATER ASSN	31	Act	A	Comm	29	56	Benton
66489	PATHFINDER MOBILE HOME PARK	36	Act	A	Comm	49	73	Franklin
40951	PATS RANCHMART INC	30	Act	A	TNC	3	4	Klickitat
66565	PATTERSON ADDITION	56	Act	A	Comm	18	45	Spokane
66615	PAXSON PLATT WATER ASSOCIATION	41	Act	A	Comm	14	34	Grant
66633	PEACEFUL PINES TRAILER COURT	56	Act	A	TNC	24	6	Spokane
1500	PEACH BEACH RV PARK	30	Act	A	TNC	69	0	Klickitat
SP660	PEARRYGIN LAKE STATE PARK	48	Act	A	TNC	87	5	Okanogan
SP105	Pearrygin Lake State Park - West CG	48	Act	A	TNC	84	2	Okanogan
66800	PELICAN POINT WATER COMPANY	41	Act	A	Comm	239	560	Grant
66800	PELICAN POINT WATER COMPANY		Act	A	Comm	239		Grant
23366	PEND OREILLE COUNTY PARK	55	Act	A	TNC	5	0	Pendoreille
39346	PERCH POINT RESORT	41	Act	A	Comm	65	46	Grant
39346	PERCH POINT RESORT		Act	A	Comm	65		Grant
67100	PESHASTIN DOMESTIC WATER ASSN	45	Act	A	Comm	73	108	Chelan
67050	PESHASTIN WATER DISTRICT	45	Act	A	Comm	236	500	Chelan



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
67050	PESHASTIN WATER DISTRICT		Act	A	Comm	236		Chelan
55914	PHEASANT RUN	41	Act	A	TNC	16	15	Grant
67295	PICNIC PINES TRAILER COURT	34	Act	A	Comm	92	130	Spokane
6718	PIERCES GREEN VALLEY RV PARK	32	Act	A	TNC	22	2	Walla Walla
67615	PINE ACRES MOBILE HOME PARK	56	Act	A	Comm	40	100	Spokane
67503	PINE CLIFFS MAINT CO INC	38	Act	A	TNC	39	14	Yakima
7319	PINE CREEK HOUSING	49	Act	A	TNC	4	5	Okanogan
67393	PINE FOREST WATER SYSTEM	48	Act	A	Comm	80	15	Okanogan
67393	PINE FOREST WATER SYSTEM		Act	A	Comm	80		Okanogan
67395	PINE GROVE WATER CO-OP	52	Act	A	Comm	59	190	Ferry
18131	PINE RIVER RANCH #2	45	Act	A	TNC	24	3	Chelan
67500	PINE RIVER WATER USERS ASSN	45	Act	A	TNC	24	14	Chelan
67610	PINE VILLAGE KOA	45	Act	A	TNC	86	4	Chelan
13909	PINECREST SUBDIVISON OWNERS	49	Act	A	Comm	47	63	Okanogan
67623	PINECROFT MOBILE HOME PARK	57	Act	A	Comm	143	248	Spokane
67640	PINELOCH SUN BEACH CLUB	39	Act	A	Comm	91	90	Kittitas
67645	PINELOW PARK	59	Act	A	TNC	50	8	Stevens
24885	PIONEER WATER COMPANY	57	Act	A	Comm	81	210	Spokane
24885	PIONEER WATER COMPANY		Act	A	Comm	81		Spokane
39592	PLAIN FLATS WATER SYSTEM	45	Act	A	Comm	18	26	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
30530	PLAYLAND PARK	39	Act	A	Comm	26	65	Yakima
68045	PLYMOUTH WATER DISTRICT	31	Act	A	Comm	66	190	Benton
7425	POIRIER ORCHARD	48	Act	A	TNC	23	10	Okanogan
68400	POMEROY, CITY OF	35	Act	A	Comm	739	1414	Garfield
68400	POMEROY, CITY OF		Act	A	Comm	739		Garfield
65815	POMONA ARTESIAN IRRIGATION COMPANY	39	Act	A	Comm	60	150	Yakima
65820	POMONA VIEW MOBILE PARK	39	Act	A	Comm	165	470	Yakima
68417	PONDEROSA COMMUNITY CLUB INC	45	Act	A	Comm	582	182	Chelan
68417	PONDEROSA COMMUNITY CLUB INC		Act	A	Comm	582		Chelan
68420	PONDEROSA MOBILE HOME PARK	41	Act	A	Comm	37	95	Grant
15571	PONDEROSA PARK WATER SYSTEM	30	Act	A	Comm	125	225	Klickitat
15571	PONDEROSA PARK WATER SYSTEM		Act	A	Comm	125		Klickitat
NP700	PORCUPINE BAY CAMPGROUND	54	Act	A	TNC	12	0	Lincoln
5977	POTHOLES DEVELOPMENT INC	41	Act	A	TNC	77	0	Grant
SP690	POTHOLES STATE PARK	41	Act	A	TNC	81	3	Grant
69250	PRESCOTT, TOWN OF	32	Act	A	Comm	150	350	Walla Walla
20142	PRESTON, S.W.	36	Act	A	TNC	3	2	Franklin
29076	PRIEST RAPIDS POWERPLANT	36	Act	A	NTNC	1	0	Grant
69650	PROGRESSIVE FLAT WATER ASSN	49	Act	A	Comm	45	145	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
69700	PROSPECT HEIGHTS COMM WATER ASSN	32	Act	A	Comm	16	46	Walla Walla
1842	PROSPECT WATER ASSN INC	30	Act	A	Comm	39	92	Klickitat
69750	PROSSER, CITY OF	37	Act	A	Comm	1767	5000	Benton
93343	PUD #1 OF ASOTIN COUNTY	35	Act	A	Comm	6260	19200	Asotin
75029	PUERTA VALLARTA	57	Act	A	TNC	1	0	Spokane
69880	PULLMAN WATER DEPARTMENT, CITY OF	34	Act	A	Comm	4497	20970	Whitman
69880	PULLMAN WATER DEPARTMENT, CITY OF		Act	A	Comm	4497		Whitman
69900	PUMP 8 DOMESTIC WATER ASSN	37	Act	A	Comm	16	75	Yakima
39424	QUAIL RUN MOBILE HOME PARK	41	Act	A	Comm	66	165	Grant
39424	QUAIL RUN MOBILE HOME PARK		Act	A	Comm	66		Grant
1639	QUINCY VALLEY ADULT PARK	41	Act	A	TNC	59	8	Grant
HD590	QUINCY VALLEY REST AREA	41	Act	A	TNC	1	0	Grant
70450	QUINCY WATER DEPARTMENT, CITY OF	41	Act	A	Comm	1142	5165	Grant
70450	QUINCY WATER DEPARTMENT, CITY OF		Act	A	Comm	1142		Grant
68437	R & P RENTALS	41	Act	A	TNC	18	24	Grant
68437	R & P RENTALS		Act	A	TNC	18		Grant
11901	RADAR HILL WATER SYSTEM	36	Act	A	Comm	33	126	Franklin
70690	RADAR MOBILE HOME PARK	36	Act	A	Comm	78	200	Adams
70770	RAINBOW COURT	37	Act	A	Comm	28	120	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
70792	RAINBOW RESORT	49	Act	A	TNC	49	0	Okanogan
70910	RAINIER TRACTS WATER ASSN	41	Act	A	Comm	20	61	Adams
FS777	RAINY PASS REST AREA - METHOW RD	47	Act	A	TNC	1	0	Chelan
71110	RANCH MOTEL	56	Act	A	TNC	17	20	Spokane
20116	RANTZ MARINE PARK	53	Act	A	TNC	17	0	Lincoln
70630	RAYBUNG COMMUNITY WELL	37	Act	A	Comm	23	55	Yakima
3594	RCs Restaurant	37	Act	A	TNC	1	0	Yakima
71550	REARDAN, TOWN OF	54	Act	A	Comm	215	601	Lincoln
6091	RED MOUNTAIN WATER ASSOCIATION		Act	A	Comm	85		Benton
6091	RED MOUNTAIN WATER ASSOCIATION	37	Act	A	Comm	85	200	Benton
72990	Reds Fly Shop & Campground	39	Act	A	TNC	19	2	Kittitas
71700	REFLECTION WATER ASSOCIATION	55	Act	A	Comm	38	98	Spokane
71725	REGAL MOBILE ESTATES	37	Act	A	Comm	80	127	Yakima
71900	REPUBLIC, CITY OF	52	Act	A	Comm	344	954	Ferry
71900	REPUBLIC, CITY OF		Act	A	Comm	344		Ferry
4761	RESER CREEK WATER SYSTEM	32	Act	A	Comm	9	27	Walla Walla
8401	RESERVOIR HILL MAINTENANCE ASSN	39	Act	A	Comm	21	39	Kittitas
8371	RICHARDSON WATER COMPANY	37	Act	A	Comm	144	185	Yakima
41574	RICHLAND ORV PARK	37	Act	A	TNC	45	0	Benton
41574	RICHLAND ORV PARK	40	Act	A	TNC	45	0	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
72250	RICHLAND, CITY OF	40	Act	A	Comm	15354	43520	Benton
3456	RIDGE WATER ASSOCIATION	56	Act	A	Comm	99	185	Spokane
3456	RIDGE WATER ASSOCIATION		Act	A	Comm	75		Spokane
3912	RIDGEVIEW ESTATES WATER ASSOCIATION	41	Act	A	Comm	71	240	Grant
3912	RIDGEVIEW ESTATES WATER ASSOCIATION		Act	A	Comm	71		Grant
72465	RIMROCK COVE	42	Act	A	TNC	197	13	Grant
72487	RIMROCK MEADOWS	44	Act	A	TNC	40	2	Douglas
3939	RIMROCK SOUTH WATER ASSOCIATION	38	Act	A	TNC	25	0	Yakima
72472	RIMROCK WATER ASSOCIATION	30	Act	A	Comm	24	56	Klickitat
72472	RIMROCK WATER ASSOCIATION		Act	A	Comm	24		Klickitat
72500	RINGOLD DOMESTIC WATER CORP	36	Act	A	Comm	42	100	Franklin
72700	RITZVILLE WATER DEPARTMENT	41	Act	A	Comm	831	1725	Adams
72720	RIVER BEND PARK WATER SYSTEM	45	Act	A	Comm	35	47	Chelan
72752	RIVER BEND WATER SYSTEM		Act	A	Comm	81		Pendoreille
38792	RIVER RIDGE ESTATES	36	Act	A	Comm	23	55	Franklin
23324	RIVER RUE WATER SYSTEM	53	Act	A	TNC	96	3	Lincoln
34838	RIVER RUN INN	48	Act	A	TNC	8	2	Okanogan
72809	RIVERBEND MOBILE PARK, LLC	45	Act	A	Comm	33	75	Chelan
72751	RIVERBEND RV PARK	48	Act	A	TNC	80	22	Okanogan
72821	RIVERS EDGE LODGE	45	Act	A	TNC	24	3	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
72831	RIVERSIDE SD CENTRAL SITE SCHOOLS	55	Act	A	NTNC	8	0	Spokane
72828	RIVERSIDE SD CHATTAROY ELEMENTARY	55	Act	A	NTNC	3	0	Spokane
72935	RIVERSIDE VILLAGE MHP	55	Act	A	Comm	125	700	Spokane
72935	RIVERSIDE VILLAGE MHP		Act	A	Comm	125		Spokane
72850	RIVERSIDE, TOWN OF	49	Act	A	Comm	140	347	Okanogan
72850	RIVERSIDE, TOWN OF		Act	A	Comm	140		Okanogan
72965	RIVERVALE WATER ASSN	55	Act	A	Comm	16	48	Spokane
4572	Riverview Subdivision Water System	35	Act	A	TNC	75	3	Whitman
4572	Riverview Subdivision Water System		Act	A	TNC	75		Whitman
6652	RIVERVIEW WATER USERS ASSN		Act	A	Comm	23		Okanogan
73032	RIVERWOOD WATER SYSTEM	58	Act	A	Comm	18	42	Ferry
73032	RIVERWOOD WATER SYSTEM		Act	A	Comm	18		Ferry
21140	ROADHOUSE 97	30	Act	A	TNC	3	2	Klickitat
27809	ROADWAY STORES INC	49	Act	A	TNC	3	3	Okanogan
73126	ROARING CREEK	39	Act	A	TNC	29	0	Kittitas
73400	ROCK ISLAND DAM POWERHOUSE I	44	Act	A	NTNC	2	0	Douglas
12631	ROCK ISLAND HYDRO PARK	44	Act	A	TNC	1	0	Douglas
73550	ROCKFORD, TOWN OF	56	Act	A	Comm	215	481	Spokane
73550	ROCKFORD, TOWN OF		Act	A	Comm	215		Spokane
73630	ROCKY BUTTE WATER	50	Act	A	Comm	45	111	Douglas



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
124	ROGERS WATER SYSTEM	54	Act	A	TNC	3	1	Stevens
74140	ROOKS PARK WATER	32	Act	A	TNC	4	0	Walla Walla
47283	ROOSEVELT LAKE RANCH	53	Act	A	Comm	102	108	Lincoln
47283	ROOSEVELT LAKE RANCH		Act	A	Comm	102		Lincoln
21114	ROOSEVELT PARK	31	Act	A	TNC	3	0	Klickitat
4301	ROOSEVELT REGIONAL LANDFILL	31	Act	A	NTNC	1	0	Klickitat
74160	ROOSEVELT WATER SYSTEM	31	Act	A	Comm	46	60	Klickitat
74160	ROOSEVELT WATER SYSTEM		Act	A	Comm	46		Klickitat
74250	ROSALIA, TOWN OF	34	Act	A	Comm	321	660	Whitman
74250	ROSALIA, TOWN OF		Act	A	Comm	321		Whitman
74385	ROSES CAFE	38	Act	A	TNC	2	2	Yakima
74400	ROSLYN, CITY OF	39	Act	A	Comm	706	1193	Kittitas
74400	ROSLYN, CITY OF		Act	A	Comm	706		Kittitas
74700	ROYAL CITY WATER	41	Act	A	Comm	301	1870	Grant
74700	ROYAL CITY WATER		Act	A	Comm	301		Grant
7286	ROYAL PACIFIC ORCHARD	41	Act	A	TNC	16	0	Grant
543	ROYAL WATER DISTRICT	41	Act	A	Comm	40	60	Grant
74800	ROZA HEIGHTS WATER ASSN	37	Act	A	Comm	52	100	Benton
34199	RUBYS ON SILVER LAKE	34	Act	A	TNC	17	0	Spokane
HD625	RYE GRASS WB REST AREA (EB-WB)	39	Act	A	TNC	2	0	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
75200	SADDLE MOUNTAIN WATER ASSOCIATION	41	Act	A	Comm	70	149	Adams
75205	SADDLE RIDGE WATER USERS	37	Act	A	Comm	15	60	Yakima
1371	SAGE HILLS ESTATES 1	41	Act	A	Comm	19	38	Grant
92826	SAGE HILLS GOLF CLUB & RV RESORT	41	Act	A	TNC	51	6	Grant
4398	SAGE HILLS SECOND WATER SYSTEM	41	Act	A	Comm	12	26	Grant
4398	SAGE HILLS SECOND WATER SYSTEM		Act	A	Comm	12		Grant
34577	SALISHAN WATER SYSTEM	58	Act	A	TNC	21	9	Ferry
9064	SANDFLAT WATER ASSOCIATION	49	Act	A	Comm	73	179	Okanogan
5966	SANTIAGO ESTATES COUNTRY VIEW	31	Act	A	Comm	65	195	Benton
FS828	SAWMILL FLAT/NACHES RD	38	Act	A	TNC	1	0	Yakima
HD650	SCHRAG EB/WB REST AREAS	41	Act	A	TNC	2	0	Adams
76750	SCOOTENAY WATER ASSN INC	36	Act	A	Comm	40	120	Franklin
76748	SCOOTENEY PARK	36	Act	A	TNC	16	1	Franklin
76864	SCOUT A VISTA SCOUT CAMP	40	Act	A	TNC	14	1	Chelan
77000	SEATONS GROVE COMMUNITY ULID 2	53	Act	A	Comm	36	90	Okanogan
77000	SEATONS GROVE COMMUNITY ULID 2		Act	A	Comm	36		Okanogan
72410	SECT 11 DIV 1 RIDGEVIEW WATER ASSN	36	Act	A	Comm	26	147	Adams
HD670	SELAH CR NB REST AREA	39	Act	A	TNC	1	0	Yakima
HD671	SELAH CR SB REST AREA	39	Act	A	TNC	1	0	Yakima
79280	SELAH HILLS MOBILE ESTATES	39	Act	A	Comm	103	300	Yakima
77398	SELAH UNITED METHODIST CHURCH	39	Act	A	NTNC	1	0	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
77400	SELAH, CITY OF	39	Act	A	Comm	2410	6625	Yakima
77400	SELAH, CITY OF		Act	A	Comm	2410		Yakima
77410	SELANDIA MANOR WATER ASSN	39	Act	A	Comm	45	130	Yakima
77432	SELS TRAILER COURT	45	Act	A	TNC	15	24	Chelan
77448	SELKIRK SCHOOL DISTRICT #70		Act	A	NTNC	3		Pendoreille
76620	SENTINEL GAP WATER ASSN	41	Act	A	Comm	54	150	Grant
76620	SENTINEL GAP WATER ASSN		Act	A	Comm	54		Grant
77651	SEVEN BAYS ESTATES UNLIMITED	53	Act	A	Comm	242	250	Lincoln
77775	SHADY PINES RESORT	49	Act	A	TNC	31	2	Okanogan
57650	SHADY TREE RV PRK at MURPHYS CORNER	41	Act	A	TNC	41	2	Grant
7694	SHAKY GROUNDS ESPRESSO	55	Act	A	TNC	1	0	Spokane
25897	SHILOH WATER SYSTEM	59	Act	A	Comm	17	49	Stevens
AA989	Silver Cove Summer Home Association	38	Act	A	TNC	21	0	Yakima
79215	SILVER DOLLAR CAFE	37	Act	A	TNC	2	1	Yakima
45086	SILVER LAKE CAMP	34	Act	A	Comm	70	125	Spokane
2345	SILVER SANDS CONDO WATER	41	Act	A	Comm	22	29	Grant
34195	SILVERLINE RESORT	48	Act	A	TNC	36	0	Okanogan
552	SIMPLOT FEEDERS LTD	32	Act	A	NTNC	3	0	Walla Walla
38740	SIT N BULL SALOON	49	Act	A	TNC	2	1	Okanogan
7363	SKEELS, CLYDE WATER SYSTEM	41	Act	A	TNC	3	4	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
79740	SKI TUR VALLEY	39	Act	A	TNC	31	0	Kittitas
79740	SKI TUR VALLEY		Act	A	TNC	31		Kittitas
80005	SKY MEADOWS RANCH COUNTRY CLUB WTR	39	Act	A	Comm	240	60	Kittitas
80200	SKYLINE ACRES INC	41	Act	A	Comm	55	151	Grant
80205	SKYLINE MOBILE HOME PARK	37	Act	A	Comm	160	340	Yakima
80210	SKYLINE WATER SYSTEM INC	41	Act	A	Comm	87	267	Grant
80345	SLEEPY HOLLOW APTS	56	Act	A	Comm	16	35	Spokane
62651	SLYS SALOON	55	Act	A	TNC	1	0	Spokane
AB039	Smallwoods Harvest Water System	45	Act	A	TNC	2		Chelan
7356	SMITH & NELSON	49	Act	A	TNC	19	0	Okanogan
710	SNAKE RIVER HOUSING WATER SYSTEM	33	Act	A	Comm	115	355	Walla Walla
710	SNAKE RIVER HOUSING WATER SYSTEM	34	Act	A	Comm	115	355	Walla Walla
80798	SNAKE RIVER VINEYARDS	32	Act	A	NTNC	3	3	Walla Walla
80925	SNOKIST GROWERS-CANNERY DIVISION	37	Act	A	NTNC	2	0	Yakima
81120	SNOWBLAZE	57	Act	A	Comm	145	60	Spokane
81120	SNOWBLAZE		Act	A	Comm	145		Spokane
81300	SOAP LAKE WATER DEPT	42	Act	A	Comm	866	1735	Grant
81300	SOAP LAKE WATER DEPT		Act	A	Comm	866		Grant
AB464	Soaring Eagle #6	36	Act	A	TNC	6	1	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
39268	SOLAR PINES WATER ASSN	59	Act	A	Comm	13	42	Stevens
81600	SOUTH CLE ELUM WATER DEPT	39	Act	A	Comm	303	570	Kittitas
81600	SOUTH CLE ELUM WATER DEPT		Act	A	Comm	303		Kittitas
81851	SOUTH HILLS WATER USERS ASSN INC	37	Act	A	Comm	46	135	Yakima
82200	SOUTH OTHELLO WATER USERS	36	Act	A	Comm	13	37	Adams
56344	SOUTHGATE WATER COMPANY	37	Act	A	Comm	51	130	Benton
82870	SPANGLE, TOWN OF	56	Act	A	Comm	130	250	Spokane
82870	SPANGLE, TOWN OF		Act	A	Comm	130		Spokane
39566	SPEARS WATER SYSTEM	45	Act	A	TNC	7	0	Chelan
82930	SPECTACLE FALLS RESORT	49	Act	A	TNC	29	0	Okanogan
82935	SPECTACLE LAKE RESORT	49	Act	A	TNC	55	4	Okanogan
56542	SPITFIRE PUB AND EATERY	57	Act	A	TNC	2	0	Spokane
5075	SPO CO - BEAR LAKE PARK	55	Act	A	TNC	6	1	Spokane
54300	SPO CO - FISH LAKE PARK	56	Act	A	TNC	6	10	Spokane
2671	SPO CO - HANGMAN VALLEY GOLF II	56	Act	A	TNC	3	0	Spokane
47140	SPO CO - LIBERTY LAKE GOLF	57	Act	A	TNC	2	3	Spokane
47147	SPO CO - LIBERTY LAKE PARK	57	Act	A	TNC	31	14	Spokane
55227	SPO CO - MIRABEAU PARK	57	Act	A	TNC	2	0	Spokane
84745	SPO CO - SULLIVAN PARK	57	Act	A	TNC	2	1	Spokane
93350	SPO CO WATER DIST #3	54	Act	A	Comm	10214	24100	Spokane
93350	SPO CO WATER DIST #3	55	Act	A	Comm	10214	24100	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
93350	SPO CO WATER DIST #3	57	Act	A	Comm	10214	24100	Spokane
93350	SPO CO WATER DIST #3		Act	A	Comm	10214		Spokane
83027	SPOKANE BUSINESS & INDUSTRIAL PARK	57	Act	A	NTNC	237	0	Spokane
28377	SPOKANE CHRISTIAN CENTER	55	Act	A	NTNC	1	0	Spokane
83075	SPOKANE RACEWAY PARK	54	Act	A	TNC	4	8	Spokane
79	SPOKANE RIFLE CLUB NORTH	54	Act	A	TNC	2	1	Spokane
80	SPOKANE RIFLE CLUB SOUTH	54	Act	A	TNC	1	0	Spokane
HD730	SPOKANE RIVER REST AREA	57	Act	A	TNC	1	0	Spokane
83100	SPOKANE, CITY OF	54	Act	A	Comm	68636	204500	Spokane
83100	SPOKANE, CITY OF	55	Act	A	Comm	68636	204500	Spokane
83100	SPOKANE, CITY OF	57	Act	A	Comm	68636	204500	Spokane
83100	SPOKANE, CITY OF		Act	A	Comm	68636		Spokane
83116	SPORTSMAN TRAILER PARK	41	Act	A	Comm	57	150	Adams
HD749	SPRAGUE LAKE EB REST AREA	34	Act	A	TNC	1	0	Lincoln
83140	SPRAGUE LAKE RESORT	34	Act	A	TNC	17	0	Lincoln
HD750	SPRAGUE LK WB REST AREA	34	Act	A	TNC	1	0	Lincoln
83150	SPRAGUE, CITY OF	34	Act	A	Comm	258	451	Lincoln
83150	SPRAGUE, CITY OF		Act	A	Comm	258		Lincoln
NP810	SPRING CANYON CAMPGROUND	53	Act	A	TNC	25	0	Lincoln
83400	SPRINGDALE, TOWN OF	59	Act	A	Comm	144	263	Stevens
35691	SPRINGWOOD RANCH PARTY BARN	39	Act	A	TNC	2	0	Kittitas
83468	SQUAW ROCK RESORT	38	Act	A	TNC	72	9	Yakima



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
SP845	SQUILLCHUCK STATE PARK	45	Act	A	TNC	13	2	Chelan
87823	Squirrel Tree Resort	45	Act	A	TNC	3	0	Chelan
AA981	SR 902 Well	56	Act	A	TNC	1	0	Spokane
75300	ST JOHN, TOWN OF	34	Act	A	Comm	284	544	Whitman
75380	ST. PETERS CHURCH & RETREAT CENTER	38	Act	A	TNC	6	13	Yakima
7764	STAHL HUTTERIAN BRETHREN	41	Act	A	Comm	30	108	Adams
83750	STARBUCK, CITY OF	35	Act	A	Comm	112	130	Columbia
83825	STARKS MOBILE HOME COURT	38	Act	A	Comm	28	60	Yakima
19941	STARLITE RESORT	39	Act	A	TNC	14	3	Kittitas
3708	STARS AND STRIPES RV PARK	41	Act	A	TNC	78	0	Grant
SP023	STEAMBOAT ROCK - NORTHRUP CANYON	42	Act	A	TNC	1	0	Grant
SP861	Steamboat Rock - Northrup Point	42	Act	A	TNC	4	3	Grant
SP860	Steamboat Rock State Park #1	42	Act	A	TNC	133	2	Grant
NP830	STEHEKIN LANDING	47	Act	A	TNC	14	7	Chelan
2138	STEHEKIN PASTRY COMPANY	47	Act	A	TNC	4	2	Chelan
18957	STEHEKIN VALLEY RANCH	47	Act	A	TNC	11	0	Chelan
84056	STEMILT IRRIGATION DISTRICT	40	Act	A	Comm	55	168	Chelan
84056	STEMILT IRRIGATION DISTRICT		Act	A	Comm	55		Chelan
24881	STEPTOE WATER/SEWER DISTRICT	34	Act	A	Comm	71	140	Whitman
367	STEVENS CO PUD - ADDY	59	Act	A	Comm	78	192	Stevens
367	STEVENS CO PUD - ADDY		Act	A	Comm	78		Stevens
13450	STEVENS CO PUD - CLAYTON	55	Act	A	Comm	140	390	Stevens

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
13450	STEVENS CO PUD - CLAYTON		Act	A	Comm	140		Stevens
93380	STEVENS CO PUD - DEER LAKE	59	Act	A	Comm	643	2263	Stevens
93380	STEVENS CO PUD - DEER LAKE		Act	A	Comm	643		Stevens
2590	STEVENS CO PUD - ECHO ESTATES	59	Act	A	Comm	24	62	Stevens
2590	STEVENS CO PUD - ECHO ESTATES		Act	A	Comm	24		Stevens
30420	STEVENS CO PUD - HALFMOON RANCHOS	55	Act	A	Comm	72	200	Spokane
30420	STEVENS CO PUD - HALFMOON RANCHOS		Act	A	Comm	72		Spokane
37165	STEVENS CO PUD - JUMP OFF JOE	59	Act	A	Comm	65	193	Stevens
37165	STEVENS CO PUD - JUMP OFF JOE		Act	A	Comm	65		Stevens
84545	STEVENS CO PUD - LONG LAKE	54	Act	A	Comm	471	1153	Stevens
84545	STEVENS CO PUD - LONG LAKE		Act	A	Comm	471		Stevens
48250	STEVENS CO PUD - LOON LAKE	55	Act	A	Comm	678	1778	Stevens
48250	STEVENS CO PUD - LOON LAKE	59	Act	A	Comm	678	1778	Stevens
48250	STEVENS CO PUD - LOON LAKE		Act	A	Comm	678		Stevens
3724	STEVENS CO PUD - LOON LAKE SW		Act	A	Comm	261		Stevens
65910	STEVENS CO PUD - PANORAMA ACRES		Act	A	Comm	25		Spokane
7813	STEVENS CO PUD - RIVER PARK ESTATES	54	Act	A	Comm	14	42	Spokane
18290	STEVENS CO PUD - RIVERSIDE	55	Act	A	Comm	55	160	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
18290	STEVENS CO PUD - RIVERSIDE		Act	A	Comm	55		Spokane
83034	STEVENS CO PUD - SPOKANE LAKE PARK	54	Act	A	Comm	78	250	Spokane
83034	STEVENS CO PUD - SPOKANE LAKE PARK		Act	A	Comm	78		Spokane
85202	STEVENS CO PUD - SUNCREST	54	Act	A	Comm	1225	3657	Stevens
85202	STEVENS CO PUD - SUNCREST		Act	A	Comm	1225		Stevens
5520	STEVENS CO PUD - VALLEY	59	Act	A	Comm	72	169	Stevens
5520	STEVENS CO PUD - VALLEY		Act	A	Comm	72		Stevens
91130	STEVENS CO PUD - WAITTS LAKE	59	Act	A	Comm	274	705	Stevens
91130	STEVENS CO PUD - WAITTS LAKE		Act	A	Comm	274		Stevens
95450	STEVENS CO PUD - WEST SHORE	54	Act	A	Comm	153	455	Spokane
95450	STEVENS CO PUD - WEST SHORE		Act	A	Comm	153		Spokane
6837	STIMSON LUMBER COMPANY	59	Act	A	NTNC	6	0	Stevens
84620	STRATHVIEW WATER DISTRICT 16	34	Act	A	Comm	101	300	Spokane
84620	STRATHVIEW WATER DISTRICT 16		Act	A	Comm	101		Spokane
32057	STRUTZEL SPORTSMAN LLC	45	Act	A	TNC	1	0	Chelan
85080	SUMMERSET WEST WATER ASSOCIATION	41	Act	A	Comm	72	240	Adams
AA199	SUMMIT VALLEY SCHOOL DISTRICT #2	59	Act	A	NTNC	2	0	Stevens
3303	SUMMIT VIEW WATER SYSTEM	37	Act	A	Comm	18	47	Benton
85121	SUN ACRES ROAD & WATER ASSN	37	Act	A	Comm	18	43	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
85123	SUN COUNTRY ESTATES 1-2-3	39	Act	A	Comm	216	240	Kittitas
85124	SUN COVE PUBLIC WATER SYSTEM	44	Act	A	Comm	361	288	Douglas
85124	SUN COVE PUBLIC WATER SYSTEM	47	Act	A	Comm	361	288	Douglas
85124	SUN COVE PUBLIC WATER SYSTEM		Act	A	Comm	361		Douglas
85125	SUN COVE WATER SYSTEM	49	Act	A	TNC	41	6	Okanogan
19936	SUN DESERT INC	41	Act	A	Comm	20	25	Grant
19936	SUN DESERT INC		Act	A	Comm	20		Grant
85129	SUN HARBOR WATER DISTRICT #3	33	Act	A	Comm	72	187	Walla Walla
85129	SUN HARBOR WATER DISTRICT #3		Act	A	Comm	72		Walla Walla
85128	SUN ISLAND MAINTENANCE ASSN	39	Act	A	Comm	115	30	Kittitas
SP920	SUN LAKES STATE PARK	42	Act	A	TNC	236	15	Grant
85135	SUN MOUNTAIN RESORT	48	Act	A	TNC	26	0	Okanogan
86284	SUN TIDES VISTA HOMEOWNERS ASSN	38	Act	A	Comm	100	350	Yakima
8114	SUNBANKS RESORT	42	Act	A	TNC	237	3	Grant
85201	SUNBURST ESTATES WATER ASSN	36	Act	A	Comm	29	100	Adams
85207	SUNCREST PLAT WATER SYSTEM	49	Act	A	Comm	102	253	Okanogan
85207	SUNCREST PLAT WATER SYSTEM		Act	A	Comm	102		Okanogan
21151	SUNDALE FRUIT COMPANY LLC	31	Act	A	TNC	15	21	Klickitat
59546	SUNDANCE ESTATES WATER SYSTEM	54	Act	A	Comm	20	50	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
85208	SUNDANCE GOLF COURSE	54	Act	A	TNC	2	0	Spokane
85209	SUNDANCE IMPROVEMENT ASSOCIATION	31	Act	A	Comm	26	100	Benton
31314	SUNDOWN M RANCH	39	Act	A	NTNC	7	8	Yakima
7790	SUNFRESH INC	41	Act	A	NTNC	8	0	Grant
85240	SUNLAND ESTATES HOMEOWNERS ASSN	41	Act	A	Comm	568	150	Grant
85255	SUNLAND SITES	45	Act	A	TNC	16	3	Chelan
23391	SUNNY HILLS WATER SYSTEM	53	Act	A	TNC	23	20	Lincoln
23391	SUNNY HILLS WATER SYSTEM		Act	A	TNC	23		Lincoln
85390	SUNNY SITES ADDITION 1	45	Act	A	TNC	47	13	Chelan
1266	SUNNYBANK WATER SYSTEM	47	Act	A	Comm	37	89	Chelan
85400	SUNNYSIDE, CITY OF	37	Act	A	Comm	3114	14120	Yakima
85400	SUNNYSIDE, CITY OF		Act	A	Comm	3114		Yakima
2351	SUNNYVIEW PARK	37	Act	A	TNC	2	0	Yakima
85630	SUNRISE ACRES	37	Act	A	Comm	41	100	Benton
16177	SUNRISE WATER ASSOCIATION	41	Act	A	Comm	137	250	Grant
AA745	SUNSERRA AT CRESCENT BAR	41	Act	A	TNC	108	4	Grant
AA745	SUNSERRA AT CRESCENT BAR		Act	A	TNC	108		Grant
85940	SUNSET ACRES WATER ASSN	41	Act	A	Comm	20	61	Grant
85950	SUNSET ACRES WATER ASSOCIATION	36	Act	A	Comm	15	33	Adams
86100	SUNSET DOMESTIC WATER ASSN	36	Act	A	Comm	20	45	Franklin
86130	SUNSET MOBILE COURT	34	Act	A	Comm	35	51	Whitman

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AA282	SUNSHINE DAY CARE	55	Act	A	NTNC	1	0	Spokane
86280	SUNTIDES MOBILE PARK	38	Act	A	Comm	56	63	Yakima
85138	SUN-TIDES RV PARK	38	Act	A	TNC	61	47	Yakima
86294	SUNVALE ACRES 4TH ADD WATER SYSTEM		Act	A	Comm	74		Pendoreille
FS904	SWAN LAKE CAMPGROUND	52	Act	A	TNC	6	0	Ferry
FS909	SWAUK CG/CLE ELUM RD	39	Act	A	TNC	16	0	Kittitas
86633	SWIFTWATER TRAILER PARK	39	Act	A	Comm	22	36	Kittitas
86647	SYDNEY HEIGHTS WATER ASSN	32	Act	A	Comm	47	130	Walla Walla
7741	SYRINGA HEIGHTS MOBILE HOME PARK	55	Act	A	Comm	28	52	Spokane
87126	TALL TIMBER HOMEOWNERS ASSN	45	Act	A	TNC	26	0	Chelan
7963	TALL TIMBER RANCH WATER SYSTEM	45	Act	A	TNC	17	7	Chelan
27724	TAMARACK SALOON	49	Act	A	TNC	1	0	Okanogan
87144	Tampico Drive Well Owners Assn	37	Act	A	Comm	18	42	Yakima
FS926	TANEUM CAMPGROUND/CLE ELUM RD	39	Act	A	TNC	11	0	Kittitas
1543	Teanaway Ridge Water System	39	Act	A	TNC	27	0	Kittitas
4157	TEDDY BEAR CORNER	37	Act	A	NTNC	5	0	Yakima
87300	TEKOA, CITY OF	56	Act	A	Comm	365	827	Whitman
HD800	TELFORD REST AREA	43	Act	A	TNC	1	0	Lincoln
84682	TEMPLINS INC	34	Act	A	TNC	2	2	Adams
87600	TERRACE PARK WATER ASSOCIATION	37	Act	A	Comm	22	50	Yakima
25120	THE FINLEY SHOPPER	31	Act	A	TNC	2	0	Benton



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
18180	THE HOMESTEAD MANUFACTURED HOUSING	31	Act	A	Comm	104	300	Benton
88126	THOUSAND TRAILS - LEAVENWORTH	45	Act	A	TNC	273	3	Chelan
88140	THREE LAKES WATER DISTRICT	40	Act	A	Comm	238	590	Chelan
7430	THREE RIVERS WINERY	32	Act	A	TNC	1	0	Walla Walla
88298	TIETON HILLS WATER CO	37	Act	A	Comm	32	75	Yakima
88300	TIETON WATER DEPT, CITY OF	38	Act	A	Comm	382	1190	Yakima
88300	TIETON WATER DEPT, CITY OF		Act	A	Comm	382		Yakima
29801	TIGER TRACTS WATER SYSTEM	59	Act	A	Comm	28	95	Stevens
88386	TIMBERLINE MOBILE HOME PARK	57	Act	A	Comm	107	240	Spokane
88392	TIMBERLINE WATER USERS	45	Act	A	TNC	20	17	Chelan
88410	TIMOTHY PARK SUBDIVISION	59	Act	A	NTNC	4	1	Stevens
88700	TONASKET WATER SYSTEM	49	Act	A	Comm	531	1005	Okanogan
88700	TONASKET WATER SYSTEM		Act	A	Comm	531		Okanogan
88785	TOOP WATER ASSN INC	37	Act	A	Comm	28	80	Yakima
88850	TOPPENISH WATER DEPARTMENT	37	Act	A	Comm	1794	8946	Yakima
88850	TOPPENISH WATER DEPARTMENT		Act	A	Comm	1794		Yakima
88890	TOUCHET SCHOOL	32	Act	A	NTNC	5	3	Walla Walla
88894	TOUCHET VALLEY BAPTIST CAMP	32	Act	A	TNC	3	0	Columbia

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
88945	TOWNS MOBILE HOME PARK	45	Act	A	Comm	16	24	Chelan
88975	TRACT C MINNEAPOLIS BEACH HOMEOWNER	47	Act	A	Comm	16	24	Chelan
27808	TRAILER CORRAL	39	Act	A	TNC	29	7	Kittitas
89250	TRENTWOOD IRRIGATION DISTRICT 3	57	Act	A	Comm	1470	4000	Spokane
89250	TRENTWOOD IRRIGATION DISTRICT 3		Act	A	Comm	1470		Spokane
89400	TRI-CITY ESTATES WATER DISTRICT 45	37	Act	A	Comm	104	300	Benton
59317	Tri-Fresh LLC	33	Act	A	TNC	2	5	Walla Walla
10414	TRIPLE L RANCH	39	Act	A	TNC	84	10	Kittitas
89457	TROUT LODGE	38	Act	A	TNC	8	5	Yakima
6872	TROUT MEADOWS	38	Act	A	TNC	18	5	Yakima
AA299	TUCANNON RIVER RETREAT	35	Act	A	TNC	35	0	Columbia
89520	TULA YOUNG HASTINGS FARM - WSU	34	Act	A	NTNC	9	16	Whitman
FS952	TUMWATER CG/LEAVENWORTH RD	45	Act	A	TNC	28	0	Chelan
89725	TURNBULL WILDLIFE REFUGE SYSTEM 1	34	Act	A	TNC	1	0	Spokane
12490	TURLEROCK HOMEOWNERS ASSOCIATION	46	Act	A	Comm	44	133	Chelan
SP950	TWENTY FIVE MILE CREEK STATE PARK	47	Act	A	TNC	43	0	Chelan
59330	TWIN CEDARS WATER SYSTEM	57	Act	A	TNC	23	22	Spokane
89980	TWIN PINES RESTAURANT & T P	39	Act	A	TNC	13	12	Kittitas
90034	TWIN W ORCHARDS	44	Act	A	Comm	39	48	Douglas
90050	TWISP, TOWN OF	48	Act	A	Comm	466	990	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
90050	TWISP, TOWN OF		Act	A	Comm	466		Okanogan
14131	TYSON FRESH MEATS INC	32	Act	A	NTNC	1	0	Walla Walla
7406	UCA/YAKIMA FIELD OFFICE COMPLEX	37	Act	A	NTNC	10	0	Yakima
90250	UNION GAP WATER	37	Act	A	Comm	1552	3570	Yakima
90250	UNION GAP WATER		Act	A	Comm	1552		Yakima
3554	Union Gospel Mission Tshimakain	54	Act	A	TNC	13	6	Stevens
90400	UNIONTOWN WATER WORKS	34	Act	A	Comm	163	324	Whitman
90400	UNIONTOWN WATER WORKS		Act	A	Comm	163		Whitman
FS078	UPPER BUMPING LAKE CG/NACHES RD	38	Act	A	TNC	9	0	Yakima
90685	UPPER COLUMBIA ACADEMY	56	Act	A	Comm	29	80	Spokane
90690	UPPER COLUMBIA CONFERENCE	56	Act	A	NTNC	3	4	Spokane
2413	UPPER SKI HILL WATER ASSN	45	Act	A	Comm	33	102	Chelan
4776	USDA AGRICULTURAL RESEARCH SERVICE	37	Act	A	NTNC	1	0	Yakima
7398	VALLEY FRUIT ORCHARDS LLC	41	Act	A	TNC	4	0	Grant
90975	VALLEY HI COMMUNITY CLUB	45	Act	A	Comm	129	219	Chelan
90979	VALLEY OF THE HORSES WATER DIST #12	56	Act	A	Comm	21	46	Spokane
90979	VALLEY OF THE HORSES WATER DIST #12		Act	A	Comm	21		Spokane
8266	VAN VOGT WATER SYSTEM	35	Act	A	TNC	2	7	Garfield
91250	VANTAGE WATER SYSTEM	40	Act	A	Comm	73	115	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
91445	VEL VIEW WATER DIST 13	55	Act	A	Comm	24	60	Spokane
91445	VEL VIEW WATER DIST 13	57	Act	A	Comm	24	60	Spokane
91445	VEL VIEW WATER DIST 13		Act	A	Comm	24		Spokane
91450	VERA WATER & POWER	57	Act	A	Comm	6875	17187	Spokane
91450	VERA WATER & POWER		Act	A	Comm	6875		Spokane
HD900	VERNITA REST AREA 1	40	Act	A	TNC	1	0	Benton
90542	VETERANS AFFAIR MED CTR, DEPT OF	32	Act	A	NTNC	20	0	Walla Walla
91913	VILLAGE COURT APTS	37	Act	A	Comm	17	60	Yakima
20226	VISTA VU WATER USERS ASSN	49	Act	A	Comm	20	60	Okanogan
92065	WAGON WHEEL BAR & GRILL	49	Act	A	TNC	2	1	Okanogan
8131	WAGON WHEEL MHP	42	Act	A	Comm	36	86	Grant
92250	WAITSBURG, CITY OF	32	Act	A	Comm	583	1210	Walla Walla
92250	WAITSBURG, CITY OF		Act	A	Comm	583		Walla Walla
7345	WALKER S LONE PINE ORCHARD	49	Act	A	TNC	4	5	Douglas
92430	WALLA WALLA AIRPORT	32	Act	A	NTNC	100	0	Walla Walla
92430	WALLA WALLA AIRPORT		Act	A	NTNC	100		Walla Walla
92470	WALLA WALLA COLLEGE	32	Act	A	Comm	509	900	Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
92475	WALLA WALLA LABOR HOME	32	Act	A	Comm	137	325	Walla Walla
92475	WALLA WALLA LABOR HOME		Act	A	Comm	137		Walla Walla
AA597	Walla Walla River Packing & Storage	32	Act	A	NTNC	1	0	Walla Walla
92500	WALLA WALLA WATER DIVISION	32	Act	A	Comm	9484	33100	Walla Walla
92500	WALLA WALLA WATER DIVISION		Act	A	Comm	9484		Walla Walla
92600	WALLULA WATER DISTRICT	32	Act	A	Comm	50	200	Walla Walla
29075	WANAPUM INDIAN VILLAGE	40	Act	A	Comm	13	50	Yakima
29080	WANAPUM POWERPLANT	40	Act	A	NTNC	2	0	Grant
SP975	WANAPUM STATE PARK	40	Act	A	TNC	61	3	Kittitas
29082	WANAPUM VILLAGE	41	Act	A	Comm	31	55	Grant
92800	WAPATO WATERWORKS	37	Act	A	Comm	1107	4535	Yakima
92800	WAPATO WATERWORKS		Act	A	Comm	1107		Yakima
92829	WARDEN HUTTERIAN BRETHREN 1	41	Act	A	Comm	26	88	Adams
56729	WARDEN LAKE RESORT	41	Act	A	TNC	41	0	Grant
92850	WARDEN, CITY OF	41	Act	A	Comm	811	2575	Grant
92850	WARDEN, CITY OF		Act	A	Comm	811		Grant
6073	WARNER FLATS DOMESTIC WATER CO INC	45	Act	A	Comm	34	100	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
93061	WASHINGTON BEEF LLC	37	Act	A	NTNC	4	0	Yakima
FS974	WASHINGTON PASS WELL - METHOW RD	47	Act	A	TNC	1	0	Okanogan
93200	WASHINGTON STATE UNIVERSITY	34	Act	A	Comm	2413	6610	Whitman
93200	WASHINGTON STATE UNIVERSITY		Act	A	Comm	2413		Whitman
93450	WASHTUCNA WATER DEPARTMENT	36	Act	A	Comm	142	250	Adams
7216	WATERING HOLE, THE	60	Act	A	TNC	3	4	Ferry
93600	WATERVILLE, TOWN OF	44	Act	A	Comm	477	1170	Douglas
93715	WATSONS HARVERENE RESORT INC	47	Act	A	TNC	72	14	Chelan
63913	WATTS BROS FARMS	31	Act	A	NTNC	23	37	Benton
6152	Watts Brothers Frozen Foods	31	Act	A	NTNC	1	0	Benton
27739	WAUCONDA CAFE	49	Act	A	TNC	2	2	Okanogan
93820	WAVERLY, TOWN OF	56	Act	A	Comm	54	129	Spokane
93820	WAVERLY, TOWN OF		Act	A	Comm	54		Spokane
93860	WAWAWAI COUNTY PARK	35	Act	A	TNC	6	2	Whitman
19300	WEAR-TEK	54	Act	A	NTNC	3	0	Spokane
8432	WEDGE MOUNTAIN INN	45	Act	A	TNC	2	2	Chelan
94110	WEILER-MARTIN TRACTS WATER ASSN	41	Act	A	Comm	252	775	Grant
41379	WELLPINIT SCHOOL	54	Act	A	NTNC	1	0	Stevens
94220	WELLS HYDROELECTRIC PROJECT	47	Act	A	NTNC	7	6	Chelan
94342	WENATCHEE RIVER COUNTY PARK	45	Act	A	TNC	44	0	Chelan
94350	WENATCHEE, CITY OF	44	Act	A	Comm	7460	24000	Chelan



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
94350	WENATCHEE, CITY OF		Act	A	Comm	7460		Chelan
94650	WEST 15 DOMESTIC WATER ASSN	36	Act	A	Comm	41	150	Franklin
94475	WEST CASHMERE WATER SYSTEM	45	Act	A	Comm	25	63	Chelan
94830	WEST MESA DOMESTIC WATER ASSN	36	Act	A	Comm	70	198	Franklin
10614	WEST PRAIRIE VILLAGE	54	Act	A	Comm	94	235	Spokane
10614	WEST PRAIRIE VILLAGE		Act	A	Comm	94		Spokane
94900	WEST RICHLAND, CITY OF	40	Act	A	Comm	3610	11200	Benton
94910	WEST SIDE MOBILE COURT	36	Act	A	Comm	40	80	Adams
95047	WESTBOURNE ACRES	32	Act	A	Comm	35	94	Walla Walla
95047	WESTBOURNE ACRES		Act	A	Comm	35		Walla Walla
17874	WESTERN HORIZON SOAP LAKE RESORT	42	Act	A	TNC	2	1	Grant
AA251	WESTERN POLYMER	41	Act	A	NTNC	2	0	Grant
95240	WESTMONT ACRES INC	42	Act	A	Comm	71	182	Grant
56143	WESTSHORE WATER COMPANY INC	41	Act	A	Comm	37	88	Grant
42948	WHISPERING PINES	37	Act	A	Comm	65	100	Yakima
8392	WHISPERING PINES RV PARK	39	Act	A	TNC	36	1	Kittitas
96093	WHISPERING PINES WATER ASSN	45	Act	A	Comm	30	86	Chelan
96096	WHISTLIN JACK LODGE INC	38	Act	A	TNC	10	5	Yakima
10634	WHITE BLUFF - JPRA	54	Act	A	NTNC	10	0	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
96100	WHITE BLUFF WATER ASSOCIATION	36	Act	A	Comm	49	105	Franklin
FS935	WHITE PASS WORK CENTER/NACHES RD	38	Act	A	TNC	23	14	Yakima
96350	WHITE SALMON, CITY OF		Act	A	Comm	1744		Klickitat
NP980	WHITMAN MISSION NATIONAL HISTORIC	32	Act	A	TNC	5	2	Walla Walla
96535	WHITSTRAN ELEMENTARY SCHOOL	37	Act	A	NTNC	2	0	Benton
96550	WHITSTRAN HEIGHTS WATER ASSOCIATION	37	Act	A	Comm	24	65	Benton
96580	WHITWORTH COLLEGE	55	Act	A	Comm	329	800	Spokane
96601	WHITWORTH WATER DISTRICT 2	55	Act	A	Comm	10188	24508	Spokane
96601	WHITWORTH WATER DISTRICT 2		Act	A	Comm	10188		Spokane
96800	WILBUR, TOWN OF	43	Act	A	Comm	392	914	Lincoln
96800	WILBUR, TOWN OF		Act	A	Comm	392		Lincoln
7236	WILD HORSE CAMPGROUND SYSTEM 1	41	Act	A	TNC	10	5	Grant
96891	WILDROSE VILLAGE	55	Act	A	Comm	14	30	Spokane
96883	WILDWOOD 2 AND 3	39	Act	A	Comm	37	41	Kittitas
9280	WILLIAMS LAKE BEACH CLUB	34	Act	A	TNC	30	23	Spokane
45622	WILLIAMS LAKE RESORT	34	Act	A	TNC	62	2	Spokane
97123	WILLIAMS LAKE ROAD SUBDIVISION	59	Act	A	Comm	17	40	Stevens
97225	WILLOW BAY RESORT INC	54	Act	A	TNC	48	15	Stevens
4402	WILLOW DRIVE NURSERY WAREHOUSE OFF.	41	Act	A	TNC	1	0	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
91912	WILLOW TREE PARK	37	Act	A	Comm	45	176	Yakima
97235	WILLOWS TRAILER VILLAGE	41	Act	A	TNC	71	23	Grant
97300	WILMA, PORT OF	35	Act	A	NTNC	17	5	Whitman
97400	WILSON CREEK WATER DEPT, TOWN OF	43	Act	A	Comm	137	231	Grant
4280	WILSON RANCH PD WATER SYSTEM	48	Act	A	TNC	21	1	Okanogan
4280	WILSON RANCH PD WATER SYSTEM		Act	A	TNC	21		Okanogan
HD979	WINCHESTER WASTEWAY REST AREA EB	41	Act	A	TNC	1	0	Grant
HD981	WINCHESTER WB REST AREA	41	Act	A	TNC	1	0	Grant
97480	WINDUST PARK	33	Act	A	TNC	3	0	Franklin
AA432	Windy Point Fruit Ranch	37	Act	A	TNC	3	4	Yakima
97750	WINTHROP, TOWN OF	48	Act	A	Comm	288	360	Okanogan
97750	WINTHROP, TOWN OF		Act	A	Comm	288		Okanogan
FS992	WISH POOSH CG/CLE ELUM RD	39	Act	A	TNC	24	0	Kittitas
7842	WISHBONE WELL	30	Act	A	TNC	2	1	Klickitat
97950	WISHRAM WATER SYSTEM	30	Act	A	Comm	200	425	Klickitat
97950	WISHRAM WATER SYSTEM		Act	A	Comm	200		Klickitat
98000	WITHROW WATER WORKS	44	Act	A	Comm	28	75	Douglas
98000	WITHROW WATER WORKS		Act	A	Comm	28		Douglas
11476	WOLF CREEK PROPERTY OWNERS ASSN	48	Act	A	TNC	45	46	Okanogan
98045	WOLFE WATER ASSOCIATION	37	Act	A	Comm	27	59	Yakima
98189	WOODLAND PARK MOBIL COURT	38	Act	A	Comm	32	75	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
98190	WOODLAND PARK TRAILER COURT	57	Act	A	Comm	14	38	Spokane
AA997	Word of Life Community Church	57	Act	A	TNC	1	0	Spokane
SP572	WSDP Mt Spokane St Park #3	57	Act	A	TNC	4	0	Spokane
SP015	WSDP MT SPOKANE STATE PARK #6	57	Act	A	TNC	1	0	Spokane
SP729	WSDP Riverside SP Bowl & Pitcher	55	Act	A	TNC	19	6	Spokane
SP727	WSDP Riverside SP Equestrian	54	Act	A	TNC	7	2	Spokane
SP731	WSDP Riverside SP ORV Area	54	Act	A	TNC	4	6	Spokane
SP730	WSDP RIVERSIDE STATE PARK	55	Act	A	TNC	1	0	Spokane
5796	WSP KENNEWICK DETACHMENT	31	Act	A	TNC	2	0	Benton
93195	WSU IAREC - PROSSER	37	Act	A	NTNC	22	1	Benton
98673	WYCKOFF FARMS	37	Act	A	NTNC	25	99	Benton
34301	YAK CO - BUENA WATER SYSTEM	37	Act	A	Comm	211	800	Yakima
34301	YAK CO - BUENA WATER SYSTEM		Act	A	Comm	211		Yakima
16242	YAK CO - CREWPORT	37	Act	A	Comm	48	192	Yakima
16242	YAK CO - CREWPORT		Act	A	Comm	48		Yakima
23280	YAK CO - GALA ESTATES WATER SYSTEM	39	Act	A	Comm	35	113	Yakima
23280	YAK CO - GALA ESTATES WATER SYSTEM		Act	A	Comm	35		Yakima
6029	YAK CO - TERRACE HEIGHTS	37	Act	A	Comm	1359	3575	Yakima
6029	YAK CO - TERRACE HEIGHTS		Act	A	Comm	1359		Yakima
99070	YAKIMA ASPHALT & PAVING CO	37	Act	A	TNC	1	0	Yakima
99087	YAKIMA COUNTY ESCHBACH PARK	38	Act	A	TNC	14	0	Yakima
99110	YAKIMA GOLDING FARMS 1	37	Act	A	TNC	25	0	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POP- ULATION	COUNTY
99114	YAKIMA ICE ARENA	37	Act	A	TNC	1	0	Yakima
AB056	Yakima River RV Park	39	Act	A	TNC	32	0	Kittitas
SP990	YAKIMA SPORTSMANS STATE PARK	37	Act	A	TNC	61	4	Yakima
7035	YAKIMA TRAINING CENTER - MPRC	40	Act	A	NTNC	2	0	Kittitas
99104	YAKIMA TRAINING CENTER - POMONA	39	Act	A	NTNC	100	0	Yakima
99104	YAKIMA TRAINING CENTER - POMONA		Act	A	NTNC	100		Yakima
7029	YAKIMA TRAINING CENTER - YRS	39	Act	A	NTNC	4	0	Yakima
99150	YAKIMA WATER DIVISION, CITY OF	37	Act	A	Comm	27258	65038	Yakima
99150	YAKIMA WATER DIVISION, CITY OF	38	Act	A	Comm	27258	65038	Yakima
99150	YAKIMA WATER DIVISION, CITY OF		Act	A	Comm	27258		Yakima
AB463	Yanoff Ranch		Act	A	TNC	6	1	Grant
12988	YMCA CAMP REED	55	Act	A	TNC	6	2	Pendoreille
29316	YODELIN WATER SYSTEM	45	Act	A	TNC	40	0	Chelan
99730	ZEPHYR LODGE	57	Act	A	TNC	3	2	Spokane
99800	ZILLAH, CITY OF	37	Act	A	Comm	905	2472	Yakima
99800	ZILLAH, CITY OF		Act	A	Comm	905		Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
02717	ORCHARDS AT CRESCENT BAR		Act	B		21		Grant
01281	CAMELOT SHORES OWNER ASSOCIATION		Act	B		14		Pendoreille
00844	VISTA RIDGE WATER SYSTEM		Act	B		10		Yakima
05403	LAKEVIEW HEIGHTS WATER SYSTEM		Act	B		10		Lincoln
04298	COLUMBIA SPRINGS ESTATES		Act	B		8		Lincoln
41268	O SULLIVAN SHORES		Act	B		7		Grant
04828	RIDGEVIEW PARK ESTATES		Act	B		3		Spokane
05782	ASPEN REFLECTIONS LANDING WATER		Act	B		2		Pendoreille
07109	RIVERWOOD WATER		Act	B		2		Chelan
07542	STRATFORD ROAD ESTATES 1-1		Act	B		2		Grant
AA482	ROOSEVELT VIEWS SUBDIVISION		Act	B		1		Lincoln
AA317	SUNCADIA RESORT		Act	U		0		Kittitas
AA481	RIO VISTA		Act	U		0		Douglas
AA483	HILLTOP ACRES		Act	U		0		Walla Walla
AA090	APPLETON FIRE HALL	30	Act	B		1		0 Klickitat
05881	BARTLETT WATER SYSTEM	30	Act	B		2		10 Klickitat
06417	BLOUIN WATER SYSTEM	30	Act	B		2		8 Klickitat
AA549	BORCEA LANE WATER SYSTEM	30	Act	B		4		15 Klickitat
20096	BRONG S COMMUNITY WATER ASSN.	30	Act	B		2		5 Klickitat
25981	CAMP DRAPER WATER SYSTEM	30	Act	B		4		5 Klickitat
40964	CANYON BREAKS	30	Act	B		4		8 Klickitat
26171	CHAMPION TRUCK SHOP	30	Act	B		2	0	Klickitat
05869	CLARK, DONALD & IDA	30	Act	B		2		5 Klickitat
04518	ELLIS WATER SYSTEM	30	Act	B		4		16 Klickitat
03635	ESHELMAN WATER SYSTEM	30	Act	B		2		4 Klickitat
29479	FOSTER ROAD WATER ASSOCIATION_	30	Act	B		8		15 Klickitat
22460	GOLDENDALE ALUMINUM	30	Act	B		1	0	Klickitat
FW012	GOLDENDALE FISH HATCHERY	30	Act	B		3		8 Klickitat
38636	GOLDENDALE S.D.A. SCHOOL	30	Act	B		2	0	Klickitat
08403	HARVEST GOLD BOTTLED WATER	30	Act	B		2		5 Klickitat
06995	HAWK WIND WATER SYSTEM #1	30	Act	B		4		12 Klickitat
27311	HILMAN	30	Act	B		2		4 Klickitat
04122	HODGES & JUNG-HODGES	30	Act	B		2		4 Klickitat
AA311	KCC CHURCH RETREAT	30	Act	B		1		3 Klickitat
AA856	King	30	Act	B		1		4 Klickitat
22397	KLICKITAT CO. F.P.D. #13	30	Act	B		2		3 Klickitat
08933	KLICKITAT SALMON HATCHERY	30	Act	B		4		15 Klickitat
FW018	KLICKITAT WILDLIFE AREA	30	Act	B		2	0	Klickitat
05029	LANE WATER SYSTEM	30	Act	B		3		8 Klickitat
05880	LOUGHBOROUGH WATER SYSTEM	30	Act	B		2		3 Klickitat
32589	MARYHILL GARDENS	30	Act	B		2		8 Klickitat



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07856	MARYHILL TRIBAL FISHING ACCESS SITE	30	Act	B		8	0	Klickitat
02090	MATULA, FLOYD H. WTR SYSTEM	30	Act	B		2	5	Klickitat
05878	MILLER, GEORGE WATER SYSTEM	30	Act	B		2	4	Klickitat
41677	MOUNTAIN SEWING	30	Act	B		2	1	Klickitat
06400	MT VIEW ACRES	30	Act	B		4	20	Klickitat
02679	NEWCASTLE WATER SYSTEM	30	Act	B		4	12	Klickitat
15804	NORTHDALLES FRUIT & GARDEN TRACTS	30	Act	B		9	14	Klickitat
32821	ODOM S WELL	30	Act	B		4	9	Klickitat
11611	OLD AMERICAN WAY	30	Act	B		1	2	Klickitat
02087	OLSON, LEO WATER SYSTEM	30	Act	B		3	7	Klickitat
02089	OLSON, WILLIAM WTR SYSTEM	30	Act	B		2	6	Klickitat
27481	ORCHARD HILL INN	30	Act	B		3	3	Klickitat
05879	PAYNE LANE WATER ASSOCIATES	30	Act	B		2	4	Klickitat
26866	PINE SPRINGS RESORT	30	Act	B		13	2	Klickitat
03707	RED CEDAR WATER SYSTEM	30	Act	B		3	5	Klickitat
04120	RIPPLINGER WATER SYSTEM	30	Act	B		2	2	Klickitat
19536	RIVERVIEW - SCHMIDT	30	Act	B		9	24	Klickitat
34856	ROBBINS WATER SYSTEM	30	Act	B		2	5	Klickitat
41901	SAM HILL S COUNTRY STORE	30	Act	B		1	0	Klickitat
HD006	SATUS PASS MAINTENANCE SITE	30	Act	B		2	0	Klickitat
34701	SCHRODER, LAURENCE E.	30	Act	B		2	4	Klickitat
02768	SEXTON, GISELA WATER SYSTEM	30	Act	B		2	2	Klickitat
06192	SILVA RIDGE WATER SYSTEM A	30	Act	B		2	6	Klickitat
07150	SILVA RIDGE WATER SYSTEM B	30	Act	B		3	6	Klickitat
22401	SMITH RANCH	30	Act	B		3	5	Klickitat
08154	ST JOHN S MONASTERY	30	Act	B		2	10	Klickitat
05877	STORKEL WATER SYSTEM	30	Act	B		2	4	Klickitat
23251	THREE CREEKS RESORT	30	Act	B		1	2	Klickitat
08138	WAVING TREE	30	Act	B		1	0	Klickitat
02091	WEDGWOOD WATER SYSTEM	30	Act	B		2	6	Klickitat
07708	WEST MEADOW WATER SYSTEM	30	Act	B		2	6	Klickitat
05405	WILEY WATER WORKS	30	Act	B		4	20	Klickitat
26161	WOODRUFF WATER SYSTEM	30	Act	B		2	5	Klickitat
21955	WSP - GOLDENDALE WEIGH STATION #75	30	Act	B		2	1	Klickitat
08042	YAK CO - BONAIR	30	Act	B		5	15	Yakima
24651	CENTRAL PRE-MIX CONCRETE CO	31	Act	B		3	0	Franklin
15506	COUNTRY DREAM ESTATES		Act	B		9	16	Grant
03280	GOLDEN RANCH WATER SUPPLY	31	Act	B		10	23	Klickitat
36718	JENSEN WATER SYSTEM	31	Act	B		4	6	Klickitat
28301	MCBRIDE HEREFORD RANCHES INC	31	Act	B		3	3	Klickitat
AB375	McKinley Springs	31	Act	B		2	1	Klickitat

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07857	PASTURE POINT TRIBAL FISHING ACCESS	31	Act	B		13	0	Klickitat
08183	BURBANK WEST WAY	31	Act	B		1	0	Walla Walla
32094	2J	31	Act	B		3	8	Benton
AA414	AB Gap Road	31	Act	B		2	1	Benton
03219	ADAMS FARM	31	Act	B		2	2	Benton
AB489	Adams Water Supply	31	Act	B		2	5	Benton
14130	ADVANCED CONCRETE SPECIALIST, INC	31	Act	B		1	0	Benton
00083	AGRI NORTHWEST GRAIN ELEVATOR	31	Act	B		3	2	Benton
38646	AGRI NORTHWEST MCNARY FARM WS	31	Act	B		5	0	Benton
67225	AGRIUM - FINLEY AREA	31	Act	B		2	0	Benton
07692	ALCARAZ, FERMIN	31	Act	B		2	7	Benton
AA797	Alexandria Nicole Cellars	31	Act	B		1	0	Benton
34690	ALLRED WATER SYSTEM	31	Act	B		3	5	Benton
04639	ALLRED, CECIL F. WATER SYSTEM	31	Act	B		2	10	Benton
AB492	Anderson Farms, Inc	31	Act	B		2	3	Benton
24221	ANDERSON, WILLIAM & DEBRA	31	Act	B		2	5	Benton
12827	ASSN OF WESTERN PULPPAPER WORKERS	31	Act	B		1	0	Benton
06252	BAKER WELL	31	Act	B		2	8	Benton
92030	BALDWIN WATER SYSTEM	31	Act	B		4	10	Benton
30816	BARBEE ORCHARDS RIVER RANCH	31	Act	B		13	5	Benton
20281	BARR WATER SYSTEM	31	Act	B		2	5	Benton
06708	BASS, TAMARA WATER SYSTEM	31	Act	B		2	4	Benton
AA487	BAUMGARTNER WELL	31	Act	B		2	7	Benton
38964	BEAUCHAMP-SCHMIDT CENTER SYSTEM	31	Act	B		2	5	Benton
00957	BEAVER WATER SYSTEM	31	Act	B		2	4	Benton
AB148	Bender Well	31	Act	B		2	2	Benton
39151	BENTON CO FIRE DIST 1 STATION 2	31	Act	B		2	2	Benton
03039	BERGES, JAMES A. WATER SYSTEM	31	Act	B		2	4	Benton
25621	BIG TOE SALVAGE	31	Act	B		1	0	Benton
56714	BLANDS WELL	31	Act	B		9	23	Benton
AB506	Blantons Water System	31	Act	B		2	5	Benton
03316	BOTTORFF, FRED - DUPLEX	31	Act	B		2	5	Benton
03329	BOTTORFF, FRED - GUM STREET	31	Act	B		3	8	Benton
08155	BRANDON MOBILE HOME COURT	31	Act	B		14	24	Benton
AA844	Brinkley Well	31	Act	B		3	8	Benton
36698	BRYANT, BILL WATER SYSTEM	31	Act	B		3	10	Benton
04841	BURDETT WATER SYSTEM	31	Act	B		2	7	Benton
05872	CAMPBELL S WELL	31	Act	B		2	3	Benton
04236	CANOE RIDGE VINEYARD	31	Act	B		2	0	Benton
06469	CARPENTER WELL	31	Act	B		2	8	Benton
62604	CARSON PUBLIC WATER SYSTEM	31	Act	B		2	5	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03844	CARVER WATER SYSTEM	31	Act	B		2	8	Benton
34486	CHAPIN WATER SYSTEM	31	Act	B		2	5	Benton
24101	CHAVEZ WATER SYSTEM	31	Act	B		3	8	Benton
00092	CHEATORS WELL WATER SYSTEM	31	Act	B		5	6	Benton
39540	CHUCK S TRUCK REPAIR	31	Act	B		3	3	Benton
31679	COBB, DONALD	31	Act	B		2	5	Benton
02718	COLUMBIA PARK - SOCCER	31	Act	B		1	0	Benton
AA389	Columbia River Seed	31	Act	B		1	1	Benton
04085	CONNER WATER SYSTEM	31	Act	B		2	0	Benton
34359	COOK WATER SYSTEM	31	Act	B		2	5	Benton
41051	COOPER WATER SYSTEM	31	Act	B		3	5	Benton
02047	COOPER, GERALD WATER SYSTEM	31	Act	B		3	8	Benton
15545	COUNTY WELL	31	Act	B		2	2	Benton
06532	COX, ROBERT (2) WATER SYSTEM	31	Act	B		2	5	Benton
27836	COX, ROBERT D.	31	Act	B		2	5	Benton
15790	CRAIG, BEN F.	31	Act	B		2	5	Benton
17926	CRAM WELL	31	Act	B		2	5	Benton
24103	CRAVENS WATER SYSTEM	31	Act	B		2	5	Benton
25634	CULBERHOUSE, ROY	31	Act	B		2	5	Benton
00846	DICKINSON WATER SYSTEM	31	Act	B		2	5	Benton
AB487	Donald Alsbaugh	31	Act	B		2	5	Benton
38616	DOUGLASS WATER SYSTEM	31	Act	B		3	5	Benton
56561	EDDEN WELL	31	Act	B		2	5	Benton
06247	EDDEN, ELMER & HELEN WATER SYSTEM	31	Act	B		2	9	Benton
04322	ELLISON, ARIC WATER SYSTEM	31	Act	B		2	7	Benton
AA493	EMERSON WATER SYSTEM	31	Act	B		2	5	Benton
34484	ENGBRETSON WATER SYSTEM	31	Act	B		3	8	Benton
06906	ENRIQUEZ WATER SYSTEM	31	Act	B		2	4	Benton
41001	FINLEY FIRST BAPTIST CHURCH	31	Act	B		1	0	Benton
56662	FINLEY ROAD WATER SYSTEM	31	Act	B		2	5	Benton
AA609	FINLEY SD #53 ADMIN BLDG	31	Act	B		1	0	Benton
02703	FINLEY STORAGE	31	Act	B		1	0	Benton
07602	FLETCHER WATER SYSTEM	31	Act	B		2	5	Benton
23701	FLOWERS, ROBERT G AND ISABELLE M	31	Act	B		2	5	Benton
26235	FOURTH PLACE WATER SYSTEM	31	Act	B		5	13	Benton
00107	G & R MAYO WATER SYSTEM	31	Act	B		2	5	Benton
34338	GALLAGHER WATER SYSTEM	31	Act	B		3	5	Benton
07166	GARNER, DON	31	Act	B		3	7	Benton
39029	GENERAL STORE	31	Act	B		1	0	Benton
02000	GIER WATER SYSTEM	31	Act	B		3	6	Benton
AA666	GMP ORCHARDS	31	Act	B		9	0	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
28228	GODWIN HOMES INC	31	Act	B		2	5	Benton
08182	GOECIA WATER SYSTEM	31	Act	B		2	6	Benton
06154	GOLLADAY, ROGER WATER SYSTEM	31	Act	B		2	4	Benton
00186	GORDON WATER SYSTEM	31	Act	B		2	5	Benton
62278	GRATER WATER SYSTEM	31	Act	B		2	5	Benton
25921	GROVER S FRUIT & PRODUCE	31	Act	B		3	10	Benton
06635	H AND M WIRTA	31	Act	B		2	4	Benton
06043	HAACKENSON WATER SYSTEM	31	Act	B		2	3	Benton
30405	HALF ACRE GROCERY	31	Act	B		2	4	Benton
30680	HAMILTON, D. WATER SYSTEM	31	Act	B		3	12	Benton
25311	HART S SHORT PLAT 999	31	Act	B		2	7	Benton
08275	HAYS TRAILER PARK	31	Act	B		3	8	Benton
AA239	HIGHLAND MANOR ESTATES #1	31	Act	B		2	8	Benton
10726	HORRIGAN FARMS	31	Act	B		2	8	Benton
06547	HOUCHIN WELL 1	31	Act	B		2	3	Benton
02093	HOWARD WATER SYSTEM	31	Act	B		2	8	Benton
00110	HUGHES LUMBER COMPANY	31	Act	B		10		Benton
08198	ISLEY, BRUCE WATER SYSTEM	31	Act	B		2	3	Benton
19946	JESERNIG, RUDY - SP 1116	31	Act	B		4	10	Benton
19701	JOHNSON, JUDY M.	31	Act	B		2	8	Benton
BP300	KENNEWICK KENN SUBSTATION	31	Act	B		10		Benton
34478	KEYES WATER SYSTEM	31	Act	B		3	10	Benton
04094	KING, RUBY WATER SYSTEM	31	Act	B		5	13	Benton
02682	KNIGHT WATER SYSTEM	31	Act	B		3	7	Benton
43575	LAGUNA VISTA IMPROVEMENT ASSN	31	Act	B		9	22	Benton
07463	LAMPSON WELL	31	Act	B		2	8	Benton
05786	LAWS-MC KINLEY WATER SYSTEM	31	Act	B		2	6	Benton
AB498	Ledgerwood Well	31	Act	B		2	4	Benton
AB091	Linda Mills Water System	31	Act	B		2	4	Benton
AB440	Linton Deep Well #1	31	Act	B		2	4	Benton
AA661	LIVINGSTON	31	Act	B		2	3	Benton
48061	LONGBRANCH TAVERN	31	Act	B		2	3	Benton
03843	LONGLEY POTATO COMPANY	31	Act	B		2	2	Benton
07686	M. MARTINEZ WATER SYSTEM	31	Act	B		2	7	Benton
15488	MARCOUX, CHARLES	31	Act	B		4	10	Benton
01646	MARQUEZ WATER SYSTEM	31	Act	B		2	4	Benton
03910	MARTIN WELL	31	Act	B		4	16	Benton
AA998	MARTYS WELL	31	Act	B		2	8	Benton
04300	MAXWELL/MOWREADER WATER SYSTEM	31	Act	B		2	6	Benton
06289	MC BUEL WATER SYSTEM	31	Act	B		2	7	Benton
AB414	McComas	31	Act	B		3	3	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01524	MEHLENBACHER, QUENTIN WATER SYSTEM	31	Act	B		2	5	Benton
02559	MICHAELIS WATER SYSTEM	31	Act	B		3	7	Benton
14533	MILLER, FRANKLIN W.	31	Act	B		2	5	Benton
65465	PACIFIC HIDE & FUR DEPOT	31	Act	B		1	3	Benton
03167	Part IV Properties Well	31	Act	B		7	18	Benton
56169	PARTNERSHIP WATER SYSTEM	31	Act	B		3	5	Benton
56731	PEREZ WATER SYSTEM	31	Act	B		2	7	Benton
34664	PERKINS TRACTS WATER SYSTEM	31	Act	B		2	5	Benton
11814	PERKINS WATER SYSTEM	31	Act	B		3	7	Benton
01138	PLEAKES WATER SYSTEM	31	Act	B		8	12	Benton
08249	POTIZO WATER SYSTEM	31	Act	B		2	8	Benton
AB444	Pringle Orchards	31	Act	B		1		Benton
69600	PRIOR WATER SUPPLY	31	Act	B		2	8	Benton
69620	PRIORS MOBILE HOME COURT	31	Act	B		0	0	Benton
AA909	R & M Water Supply	31	Act	B		2	2	Benton
10477	RAEDER, CHARLES WATER SYSTEM	31	Act	B		2	4	Benton
07403	RAINE, FRANK WATER SYSTEM	31	Act	B		1	0	Benton
71040	RALLS WATER SYSTEM	31	Act	B		8	20	Benton
26281	REAL, GEORGETTE	31	Act	B		2	6	Benton
AA354	REDISKE, EARL CAMP #2	31	Act	B		1	4	Benton
07750	REDISKE, EARL CAMP#1	31	Act	B		5	10	Benton
34871	REIL WATER SYSTEM	31	Act	B		3	16	Benton
34426	RICHARDSON WATER SYSTEM	31	Act	B		2	5	Benton
20294	RICHARDSONS	31	Act	B		2	5	Benton
19291	RIVES, ED	31	Act	B		3	8	Benton
00722	ROBBINS, ED WATER SYSTEM	31	Act	B		3	8	Benton
23674	ROE/DOBYNS WATER SYSTEM	31	Act	B		2	5	Benton
AA669	RUSSELL	31	Act	B		3	2	Benton
24451	SAGE WEST	31	Act	B		2	5	Benton
03217	SANDERS, LLOYD WATER SYSTEM	31	Act	B		4	10	Benton
AA140	SANDPIPER IMPROVEMENT DISTRICT	31	Act	B		8	21	Benton
75883	SANDPIPER MOBILE HOME PARK	31	Act	B		8	22	Benton
56046	SAPP, JAMES T	31	Act	B		2	5	Benton
56039	SAUER, LEONARD	31	Act	B		2	5	Benton
34351	SCHMELZER WATER SYSTEM	31	Act	B		2	5	Benton
AA826	Schmelzer Wayne	31	Act	B		2	4	Benton
04681	SCHULTZ WATER SYSTEM	31	Act	B		2	4	Benton
33101	SHANE S WATER SYSTEM	31	Act	B		4	8	Benton
62526	SHEPARD WATER SUPPLY	31	Act	B		2	3	Benton
AA815	Shoemaker Water System	31	Act	B		2	5	Benton
07611	SHORT AVENUE WATER SYSTEM	31	Act	B		5	13	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
02689	SHORT PLAT 1649 WATER SYSTEM	31	Act	B		5	22	Benton
02214	SHORT PLAT 905 WATER SYSTEM	31	Act	B		6	24	Benton
AA041	SKEEN WATER SYSTEM	31	Act	B		2	1	Benton
22564	SOUTH FREMONT WATER SYSTEM	31	Act	B		4	7	Benton
02148	STACY WATER SYSTEM	31	Act	B		2	3	Benton
07038	STACY, LARRY J.	31	Act	B		2	6	Benton
55901	STEIN, ROBERT WATER SYSTEM	31	Act	B		2	5	Benton
AB481	Strong Water System	31	Act	B		2	5	Benton
03199	SUAREZ, JOSE	31	Act	B		2	6	Benton
01353	SUNDOWN ESTATES	31	Act	B		5	8	Benton
AB482	Tannehill Water System	31	Act	B		2	5	Benton
38260	TESSENDERLO KERLEY INC	31	Act	B		2	0	Benton
39489	THOM WATER SYSTEM	31	Act	B		2	4	Benton
38095	THORNTON, NEWT G.	31	Act	B		2	8	Benton
00139	TRI-CITY FABRICATING	31	Act	B		1	0	Benton
21877	TUMBLE WEED ACRES WELL ASSOCIATION	31	Act	B		4	10	Benton
AB512	Vern Burk Water Sytem	31	Act	B		2	6	Benton
02485	VOGEL COMMUNITY WELL	31	Act	B		4	10	Benton
AB455	Waddingham Water	31	Act	B		4	14	Benton
AB456	Walla Walla Farm Co-Op	31	Act	B		1	1	Benton
51364	WALLACE WATER SYSTEM	31	Act	B		3	8	Benton
17847	WALSH WATER SYSTEM	31	Act	B		3	12	Benton
39372	WASTE MANAGEMENT	31	Act	B		1	0	Benton
AB454	Weber, Michael	31	Act	B		2	5	Benton
38589	WHEEL HOUSE WHEEL UI GROUP	31	Act	B		2	3	Benton
07701	WHITCOMB	31	Act	B		2	5	Benton
AA096	WHITNEY WATER SYSTEM	31	Act	B		2	10	Benton
30531	WILLIAMS COMPOUND WATER SYSTEM	31	Act	B		4	5	Benton
25616	WILSON/NUNEZ	31	Act	B		2	5	Benton
97465	WINDSOR, LEOLIA WATER SYSTEM	31	Act	B		2	5	Benton
02591	WOOD, MELVIN WATER SYSTEM	31	Act	B		2	3	Benton
22573	YADAO, JUANITA	31	Act	B		1	3	Benton
05132	YODER, RICHARD WATER SYSTEM	31	Act	B		2	4	Benton
25941	1ST PRESBYTERIAN CHURCH BICKLETON	31	Act	B		2	4	Klickitat
AB445	Alder Creek Pioneer Association	31	Act	B		1		Klickitat
25365	ANDREWS, ROBERT	31	Act	B		4	8	Klickitat
41281	CALDWELL-DAVIS FARM	31	Act	B		2	5	Klickitat
07023	EKONE WATER SYSTEM	31	Act	B		5	10	Klickitat
25938	ROOSEVELT SCHOOL DISTRICT 403	31	Act	B		1	0	Klickitat
96530	WHITMORE SYSTEM 1, LAWRENCE	31	Act	B		5	11	Klickitat
38606	HILL, DANIEL	32	Act	B		2	3	Benton



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03647	SCHINNER, TONY WATER SYSTEM	32	Act	B		2	8	Benton
AA394	NORTH WORLD VENTURES RV PARK	32	Act	B		2	1	Columbia
83920	STEARNS BEAUTY SHOP	32	Act	B		2	2	Columbia
00426	TOUCHET VALLEY SEEDS	32	Act	B		1	0	Columbia
14799	WSP - SPOKANE PORT OF ENTRY 64	32	Act	B		1	0	Spokane
38801	ABEJA	32	Act	B		6	2	Walla Walla
00344	ACOCK WATER SYSTEM	32	Act	B		2	5	Walla Walla
03026	ALLESIO WATER SYSTEM	32	Act	B		2	5	Walla Walla
09790	AMERICOLD LOGISTICS	32	Act	B		1	0	Walla Walla
00112	AT&T HOOD ROAD SHOP	32	Act	B		1	0	Walla Walla
03440	AYER JUNCTION	32	Act	B		10	13	Walla Walla
AA479	BASEL WATER SYSTEM	32	Act	B		3	2	Walla Walla
AB055	Berghan Vineyards	32	Act	B		1	0	Walla Walla
41392	BIAGI WATER SYSTEM	32	Act	B		3	7	Walla Walla
03597	BOGART WATER SYSTEM	32	Act	B		2	1	Walla Walla
08102	BOWE WATER SYSTEM	32	Act	B		2	3	Walla Walla
51878	BRADSHAW, RANDY	32	Act	B		2	5	Walla Walla
08785	BROOKSHIRE TERRACE WATER SYSTEM	32	Act	B		8	24	Walla Walla
AB502	Bunchgrass Winery	32	Act	B		1		Walla Walla
51296	BURNHAM, WATER SYSTEM	32	Act	B		2	4	Walla Walla
38877	BUTTICE DUPLEX	32	Act	B		2	5	Walla Walla
73919	BYERLEY FARMS	32	Act	B		10	3	Walla Walla
23277	BYERLEY WATER SYSTEM	32	Act	B		2	5	Walla Walla
02831	CALLAWAY, H.V.	32	Act	B		2	5	Walla Walla
11277	CARRIAGE HOUSE APARTMENTS	32	Act	B		5	13	Walla Walla
15484	CHRISTENSEN, DALE WATER SYSTEM	32	Act	B		2	5	Walla Walla
11151	CLD PACIFIC GRAIN LLC	32	Act	B		1	0	Walla Walla
09851	CLINE, FRANKLIN	32	Act	B		2	5	Walla Walla
15011	COFFEEN, NAT	32	Act	B		2	5	Walla Walla
11821	COLLEGE WASTEWATER TREATMENT PLANT	32	Act	B		1	0	Walla Walla
00251	Columbia Basin Rebar	32	Act	B		2	0	Walla Walla
62337	COLUMBIA RURAL ELECTRIC ASSN INC	32	Act	B		1	0	Walla Walla
51239	CONNER, JIM WATER SYSTEM	32	Act	B		2	5	Walla Walla
28371	CORBETT WATER SYSTEM	32	Act	B		2	5	Walla Walla
AB399	Cougar Crest Winery	32	Act	B		2		Walla Walla
15809	CRAMER TOM WATER SYSTEM	32	Act	B		3	4	Walla Walla
09727	CZYHOLD, RICHARD	32	Act	B		2	5	Walla Walla
33274	DAUDT, DALE	32	Act	B		2	5	Walla Walla
01566	DU PUIS, ROBERT	32	Act	B		2	5	Walla Walla
02716	DUFF, VERL WATER SYSTEM	32	Act	B		3	10	Walla Walla
03471	DUNCAN WATER SYSTEM	32	Act	B		2	5	Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
41040	DUNCAN, GEORGE WATER SYSTEM	32	Act	B		2	3	Walla Walla
08402	DUNNING IRRIGATION SUPPLY	32	Act	B		10		Walla Walla
06201	EDSON WATER SYSTEM	32	Act	B		2	5	Walla Walla
09714	ENDICOTT, GEORGE	32	Act	B		2	5	Walla Walla
31718	EWING, WARREN E.	32	Act	B		2	5	Walla Walla
03365	FAIRCHILD WATER SYSTEM	32	Act	B		2	4	Walla Walla
28481	FILAN, GERALD H.	32	Act	B		2	5	Walla Walla
25245	FIRST BAPTIST CHURCH OF BURBANK	32	Act	B		2	3	Walla Walla
53450	FLAT TOP RANCH	32	Act	B		10	18	Walla Walla
00595	FLORIDA POWER & LIGHT	32	Act	B		20		Walla Walla
01926	FRAZIER CATTLE CO	32	Act	B		6	15	Walla Walla
06253	FRENCH TOWN HALL	32	Act	B		10		Walla Walla
00455	GALLANT ROAD WATER SYSTEM	32	Act	B		4	13	Walla Walla
AB442	Garrison Creek Cellars	32	Act	B		5	2	Walla Walla
08153	GLEN FIONA WINERY	32	Act	B		10		Walla Walla
01571	GORDON/BATES WATER SYSTEM	32	Act	B		2	6	Walla Walla
AA226	GRANDVIEW FARMS OFFICE	32	Act	B		2	2	Walla Walla
00728	GRANDVIEW FARMS PASCO WATER SYSTEM	32	Act	B		7	18	Walla Walla
AB348	Greenwalt Water Supply	32	Act	B		2	1	Walla Walla
30419	GRIM WATER SYSTEM	32	Act	B		2	3	Walla Walla
56236	GUNTER WATER SYSTEM	32	Act	B		2	5	Walla Walla
03908	HANSEN, BARBARA	32	Act	B		2	4	Walla Walla
51811	HANSENS, CURTIS G.	32	Act	B		2	9	Walla Walla
07440	HERBERT WATER SYSTEM	32	Act	B		3	8	Walla Walla
00684	HOLLOWAY, TED WATER SYSTEM	32	Act	B		2	7	Walla Walla
06537	HORIZON AG PRODUCTS	32	Act	B		20		Walla Walla
51164	HUESBY WATER STSTEM	32	Act	B		2	5	Walla Walla
71742	HUNTER WATER SYSTEM	32	Act	B		5	16	Walla Walla
08415	ISENHOWER CELLARS	32	Act	B		10		Walla Walla
36895	JOHNSON, WALTER WATER SUPPLY	32	Act	B		6	9	Walla Walla
01100	JONES, DWELLY WATER SYSTEM	32	Act	B		2	5	Walla Walla
AA136	K VINTNERS	32	Act	B		2	1	Walla Walla
37337	K2H FARMS DUPLEXES	32	Act	B		5	24	Walla Walla
02695	KAYLOR, MARK WATER SYSTEM	32	Act	B		2	3	Walla Walla
03651	KENTCH WATER SYSTEM	32	Act	B		2	5	Walla Walla
56401	KILLOUGH DUPLEX	32	Act	B		2	5	Walla Walla
02133	KLICKEER WATER SYSTEM 2	32	Act	B		40		Walla Walla
06190	LA FRONTERA WATER SYSTEM	32	Act	B		2	3	Walla Walla
42025	LARISH, COLLEEN WATER SYSTEM	32	Act	B		2	5	Walla Walla
AA433	Latitude 46 H2O System	32	Act	B		2	4	Walla Walla
38890	LOWDEN SCHOOLHOUSE	32	Act	B		20		Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
BP370	LOWER MONUMENTAL SUBSTATION	32	Act	B		2	0	Walla Walla
34519	MARTIN WATER SYSTEM	32	Act	B		2	5	Walla Walla
15151	MCGREGOR COMPANY	32	Act	B		1	0	Walla Walla
33171	MCMANN, SHIRLEY	32	Act	B		2	3	Walla Walla
00115	MCNARY NATIONAL WILDLIFE REFUGE	32	Act	B		5	2	Walla Walla
73226	MEADOW LAKE FARM	32	Act	B		5	4	Walla Walla
53243	MEADOWBROOK APARTMENTS	32	Act	B		5	15	Walla Walla
10745	MEEKER WATER SYSTEM	32	Act	B		2	2	Walla Walla
00778	MESERVE, ALBERT WATER SYSTEM	32	Act	B		2	5	Walla Walla
33601	MEYER, BOB	32	Act	B		2	5	Walla Walla
38901	MILLER, CHARLENE WATER SYSTEM	32	Act	B		2	5	Walla Walla
08289	NEUFFER WATER SYSTEM	32	Act	B		1	0	Walla Walla
07511	NEW LIFE ASSEMBLY OF GOD	32	Act	B		2	0	Walla Walla
59975	NORQUIST-TAYLOR WATER SYSTEM	32	Act	B		4	15	Walla Walla
08395	NORTH STAR WINERY	32	Act	B		1	0	Walla Walla
95061	NW GRAIN GROWERS - WALLULA	32	Act	B		1	0	Walla Walla
92492	NW GRAIN GROWERS PT KELLY	32	Act	B		2	5	Walla Walla
11624	OAK MANOR ESTATES WATER ASSN	32	Act	B		5	12	Walla Walla
65486	PACIFIC POWER & LIGHT - SUBSTATION	32	Act	B		1	0	Walla Walla
08129	PARIS WATER SYSTEM	32	Act	B		2	3	Walla Walla
51190	PATRICK M. PAUL VINEYARDS	32	Act	B		2	2	Walla Walla
07404	PEPPER BRIDGE WINERY	32	Act	B		1	0	Walla Walla
24736	PRIDAY-GLADDEN	32	Act	B		2	5	Walla Walla
10831	PROSPECT POINT GRANGE	32	Act	B		1	0	Walla Walla
71260	RASMUSSENS WATER SYSTEM	32	Act	B		3	3	Walla Walla
AA347	REININGER-TUCKER WATER SYSTEM	32	Act	B		5	1	Walla Walla
27126	RHAY-VALAER	32	Act	B		2	5	Walla Walla
00931	ROSEWOOD WATER ASSOCIATION	32	Act	B		5	19	Walla Walla
31731	RUBLE, BILL	32	Act	B		2	5	Walla Walla
08128	RULO WINERY	32	Act	B		2	2	Walla Walla
33287	SAMS, E.D. BUCK	32	Act	B		2	5	Walla Walla
07720	SAVIAH CELLARS	32	Act	B		1	0	Walla Walla
AB147	Schafer Winery	32	Act	B		2	1	Walla Walla
02931	SCHIERMAN WATER SYSTEM	32	Act	B		2	5	Walla Walla
01101	SCHWENKE WATER SYSTEM	32	Act	B		2	5	Walla Walla
64950	SEED HOUSE SALOON	32	Act	B		2	1	Walla Walla
02876	SHENEFIELD WATER SYSTEM	32	Act	B		2	6	Walla Walla
AA325	SPRING VALLEY VINEYARD	32	Act	B		1	0	Walla Walla
03968	STEVENSON WATER SYSTEM	32	Act	B		2	10	Walla Walla
23271	TALBOT WATER SYSTEM	32	Act	B		2	5	Walla Walla
06061	TESSENDERLO KERLEY	32	Act	B		1	0	Walla Walla

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
10840	TOUCHET BAPTIST CHURCH	32	Act	B		3	4	Walla Walla
06540	TOUCHET GRANGE	32	Act	B		2	5	Walla Walla
03276	TOUCHET POST OFFICE	32	Act	B		1	0	Walla Walla
38864	TOUCHET SDA CHURCH	32	Act	B		1	0	Walla Walla
88990	TRADE WINDS CAFE	32	Act	B		2	3	Walla Walla
01715	Trans Canadas GTN System #7	32	Act	B		4	0	Walla Walla
65450	Trans Canadas GTN System #8	32	Act	B		5	0	Walla Walla
90080	TWO RIVERS RIDING CLUB	32	Act	B		2	5	Walla Walla
AA814	Va Piano Vineyards	32	Act	B		1	0	Walla Walla
02437	VALLEY VISTA	32	Act	B		8	21	Walla Walla
03275	VAN DONGE WATER SYSTEM	32	Act	B		2	6	Walla Walla
19961	WAGNER, ALBERT	32	Act	B		2	5	Walla Walla
AA141	WALISER WATER SYSTEM	32	Act	B		1	3	Walla Walla
10733	WALLA WALLA LANDFILL	32	Act	B		3	0	Walla Walla
11853	WALLA WALLA LIVESTOCK AUCTION	32	Act	B		4	5	Walla Walla
BP600	WALLA WALLA SUBSTATION BPA	32	Act	B		2	0	Walla Walla
AA326	WALLA WALLA VINTNERS	32	Act	B		2	1	Walla Walla
92505	WALLA WALLA YACHT CLUB	32	Act	B		2	2	Walla Walla
HD920	WALLULA ROADSIDE PARK	32	Act	B		1	0	Walla Walla
92625	WALLULA UNION PACIFIC RAILROAD	32	Act	B		1	0	Walla Walla
62646	WALTHERS WATER SYSTEM	32	Act	B		2	5	Walla Walla
34001	WEAVER WATER SYSTEM	32	Act	B		2	5	Walla Walla
04579	WERT WATER SYSTEM	32	Act	B		2	3	Walla Walla
00113	WESTPHAL-CRUMB WATER SYSTEM	32	Act	B		2	5	Walla Walla
96098	WHITE, BILL WATER SYSTEM	32	Act	B		5	13	Walla Walla
96182	WHITE, R.F	32	Act	B		3	9	Walla Walla
03967	WINNETT WATER SYSTEM	32	Act	B		2	4	Walla Walla
03384	WINTERS, PAULINE WATER SYSTEM	32	Act	B		2	5	Walla Walla
09827	WOLFE, GARY	32	Act	B		2	5	Walla Walla
80414	WOODWARD CANYON WINERY	32	Act	B		5	0	Walla Walla
58690	WORDEN FARMS	32	Act	B		1	0	Walla Walla
10699	WSP - WALLA WALLA WEIGH STATION #51	32	Act	B		1	0	Walla Walla
29264	YOUNG WATER SYSTEM	32	Act	B		2	5	Walla Walla
63163	AGUAYO, FRANK WATER SYSTEM	32	Act	B		2	2	Benton
38614	DAILY SHORT PLAT 883-3	33	Act	B		2	5	Benton
08097	5-D DAIRY FARMS	33	Act	B		1	0	Franklin
51027	ALDERSON, JACK	33	Act	B		2	5	Franklin
02961	BRAZELL WATER SYSTEM	33	Act	B		2	5	Franklin
51216	CARR AVIATION	33	Act	B		3	6	Franklin
41353	CARR, JACK WATER SYSTEM	33	Act	B		6	14	Franklin
03567	COGRAIN INC	33	Act	B		2	6	Franklin

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07085	GORDON BROTHERS	33	Act	B		3	4	Franklin
09801	HARRIS, ALVIN	33	Act	B		4	10	Franklin
AB430	Ice Harbor Water System	33	Act	B		4	3	Franklin
04913	JACOBSON, NORMAN WATER SYSTEM	33	Act	B		2	7	Franklin
41418	Johnson Water System	33	Act	B		5	5	Franklin
14264	L&H FARMS INC	33	Act	B		2	5	Franklin
AA346	LYONS FERRY PARK - ADMIN	33	Act	B		4	5	Franklin
05871	MURPHY #1	33	Act	B		2	8	Franklin
06153	NICHOLS, CHESLEY WATER SYSTEM	33	Act	B		2	5	Franklin
AA356	NOBLE WATER SYSTEM	33	Act	B		2	6	Franklin
02270	PETERSON, MYRON WATER SYSTEM	33	Act	B		3	12	Franklin
06978	PORTER WATER SYSTEM	33	Act	B		2	5	Franklin
10427	PS FERTILIZER	33	Act	B		1	0	Franklin
00742	ROGERS FARMS INC WATER SYSTEM	33	Act	B		2	7	Franklin
AB322	Ruby Ridge Dairy	33	Act	B		1		Franklin
51177	ALLEN, CLINT	33	Act	B		2	4	Walla Walla
AB208	Applegate Nursery	33	Act	B		1		Walla Walla
32979	BROETJE, RALPH WATER SYSTEM	33	Act	B		4	9	Walla Walla
08491	CHARBONNEAU CAMP #1	33	Act	B		2	5	Walla Walla
AA092	CHARBONNEAU CAMP #2	33	Act	B		2	5	Walla Walla
AA038	CLEAR WATER COMPANY #1	33	Act	B		9	24	Walla Walla
05218	COUNTRY VILLAGE	33	Act	B		4	13	Walla Walla
35356	ICE HARBOR FARMS INC	33	Act	B		3	0	Walla Walla
27286	KRUSSEL-LAMPSON	33	Act	B		2	5	Walla Walla
14181	REED WATER SYSTEM	33	Act	B		4	10	Walla Walla
AB110	Sapphire Mountain Cellars	33	Act	B		1	0	Walla Walla
13377	SHADE, FRANK	33	Act	B		2	5	Walla Walla
41190	SHELTON WATER SYSTEM	33	Act	B		4	19	Walla Walla
39320	WESTERN FARM SERVICE	33	Act	B		1	0	Walla Walla
00278	ADAMS CO FIRE DIST #6	34	Act	B		5	10	Adams
05660	BENGE SCHOOL DISTRICT	34	Act	B		3	3	Adams
07539	POTHOLEVIEW ESTATES	34	Act	B		7	12	Adams
AA129	WILLIAMS ENERGY MARKETING	34	Act	B		1	0	Adams
04414	RIOJAS-RISK	34	Act	B		3	10	Benton
HD740	SPRAGUE MAINTENANCE SHED	34	Act	B		1	0	Lincoln
AA288	AGRIPRO WHEAT RESEARCH	34	Act	B		1	0	Spokane
02410	ANDERSON TRAILER COURT	34	Act	B		9	23	Spokane
01539	BETZ WATER SYSTEM	34	Act	B		2	3	Spokane
09278	BUNKERS RESORT 2	34	Act	B		14	2	Spokane
13514	BUNKERS RESORT SYSTEM 3	34	Act	B		2	5	Spokane
12242	CHAPMAN LAKE RESORT #2	34	Act	B		10	0	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
10813	CHAPMAN LAKE RESORT #3	34	Act	B		11	0	Spokane
51061	COLES WATER SYSTEM	34	Act	B		2	5	Spokane
56274	DENEMRAC	34	Act	B		2	5	Spokane
18796	DENTON WATER SYSTEM	34	Act	B		3	7	Spokane
19911	DOWNS LAKE RESORT	34	Act	B		6	0	Spokane
25764	FOLAND WATER SYSTEM	34	Act	B		2	5	Spokane
00545	FOUR LAKES ANG WATER SYSTEM	34	Act	B		11	2	Spokane
41535	FUHRMAN WATER SYSTEM	34	Act	B		2	5	Spokane
03490	GELHAUS, DON WATER SYSTEM	34	Act	B		2	4	Spokane
56151	GROGAN WATER SYSTEM	34	Act	B		2	5	Spokane
51144	HUNT-MAYFIELD	34	Act	B		2	5	Spokane
00106	J & J WELL WATER SYSTEM	34	Act	B		2	5	Spokane
01772	LEFEVRE S TRACTS 3 & 4	34	Act	B		2	6	Spokane
55991	OLD LLAMA WATERING HOLE	34	Act	B		2	5	Spokane
65452	PG&E GT-NW #6	34	Act	B		5	0	Spokane
67755	PLAZA GRANGE SUPPLY	34	Act	B		2	5	Spokane
AB272	Shop Project	34	Act	B		2	1	Spokane
AB433	Spokane Co Fire Dist 3 - #310	34	Act	B		1		Spokane
17616	STALEY RESIDENTIAL WATER SYSTEM	34	Act	B		2	3	Spokane
02483	TURNBULL NWR HELM BUNKHOUSE	34	Act	B		1	0	Spokane
89727	TURNBULL WILDLIFE REFUGE SYSTEM 2	34	Act	B		5	4	Spokane
24265	TYLER STORE AND CAMPGROUND	34	Act	B		13	2	Spokane
06670	WESTWAY CONSTRUCTION INC	34	Act	B		2	2	Spokane
FW013	FORD HATCHERY WATER SYSTEM	54	Act	B		3	8	Stevens
AB405	352 Johnson Rd	34	Act	B		1	6	Whitman
01225	ALDERMAN BOB WATER	34	Act	B		8	18	Whitman
01725	ALMOTA ELEVATOR COMPANY	34	Act	B		2	2	Whitman
02995	ARROW MACHINERY	34	Act	B		1	0	Whitman
AB503	Atlas Sand & Rock Inc.	34	Act	B		3		Whitman
93349	AVISTA UTILITIES	34	Act	B		1	0	Whitman
02134	BENSCOTER WATER SYSTEM	34	Act	B		2	2	Whitman
05190	BRUCE/TENWICK WATER SYSTEM	34	Act	B		2	2	Whitman
03664	C & B READY MIX CO INC	34	Act	B		1	0	Whitman
03624	CACHE CREEK RANCH WATER SYSTEM	34	Act	B		2	3	Whitman
05438	CARSTENS, LLOYD	34	Act	B		1	0	Whitman
08382	COLFAX COUNTY SHOP	34	Act	B		1	0	Whitman
08075	COLFAX LDS CHURCH	34	Act	B		1	0	Whitman
HD117	COLFAX MAINTENANCE - DOT	34	Act	B		2	0	Whitman
00236	COLFAX MEAT PACKING CO	34	Act	B		1	0	Whitman
AA931	Country Club Commercial Housing	34	Act	B		4	0	Whitman
05695	CROSSROADS NURSERY & GARDEN GIFTS	34	Act	B		1	0	Whitman



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
00319	CRYSTAL COMMUNITY DISTRICT WS	34	Act	B		2	5	Whitman
02523	DALE S FLYING SERVICE	34	Act	B		4	9	Whitman
20610	DUSTY FARM CO-OP INC	34	Act	B		2	0	Whitman
24250	EWAN WATER ASSOCIATION	34	Act	B		13	23	Whitman
12781	EXECUTRANS	34	Act	B		2	5	Whitman
12600	FREI, TONY MEAT PROCESSING	34	Act	B		1	0	Whitman
AA040	GILCHRIST WATER SYSTEM	34	Act	B		2	2	Whitman
05529	GRANDVIEW WATER SYSTEM	34	Act	B		8	20	Whitman
28995	GRANGE 118	34	Act	B		2	4	Whitman
33465	HINRICHS FARM WATER SYSTEM	34	Act	B		3	0	Whitman
34149	HOOVER WATER	34	Act	B		9	18	Whitman
07616	HUBER ACTION FREIGHT	34	Act	B		2	2	Whitman
36875	JOHNSON ROAD WATER FUND	34	Act	B		5	15	Whitman
BP340	LITTLE GOOSE SUBSTATION	34	Act	B		1	0	Whitman
33591	MCGREGOR COMPANY	34	Act	B		1	0	Whitman
05003	MCGREGOR COMPANY - PULLMAN	34	Act	B		2	0	Whitman
00198	MCGREGOR OFFICE COMPLEX	34	Act	B		1	0	Whitman
06881	MCKEIRNAN BROS	34	Act	B		2	0	Whitman
05944	MEADOW LARK WELL ASSN	34	Act	B		8	18	Whitman
AA386	Motley Airport Acres	34	Act	B		5	20	Whitman
02488	PAC WEST PRE-MIX WATER SYSTEM	34	Act	B		2	2	Whitman
39055	PALOUSE CONSERVATION FIELD STATION	34	Act	B		4	4	Whitman
00156	PALOUSE PRODUCERS SUBDIVISION	34	Act	B		2	0	Whitman
32014	POE ASPHALT PAVING INC	34	Act	B		1	0	Whitman
69877	PULLMAN MOSCOW REGIONAL AIRPORT	34	Act	B		9	2	Whitman
AB372	Rainbow Rentals	34	Act	B		1		Whitman
01283	RUSSELL WATER SYSTEM	34	Act	B		2	6	Whitman
07025	SEL HANGER WATER SYSTEM	34	Act	B		1	0	Whitman
77420	SELBU LUTHERAN CHURCH	34	Act	B		3	2	Whitman
80795	SMOOT HILL BIOL FIELD STUDY AREA	34	Act	B		2	2	Whitman
82981	SPILLMAN FARM	34	Act	B		3	5	Whitman
AA922	SR 270 Water System	34	Act	B		4	0	Whitman
00727	STEWART WATER SYSTEM	34	Act	B		2	7	Whitman
AA173	SUMMIT QUARRY WATER SYSTEM	34	Act	B		1	0	Whitman
AB130	Sunshine Well	34	Act	B		3	8	Whitman
01729	SWALLEY WATER SYSTEM	34	Act	B		2	4	Whitman
86759	SYSTEM #2 KINSINGER	34	Act	B		2	4	Whitman
86758	SYSTEM 1 KINSINGER	34	Act	B		2	1	Whitman
02489	U-CITIES SUPPLY WATER SYSTEM	34	Act	B		1	0	Whitman
90971	VALLEY CEMENT	34	Act	B		2	5	Whitman
AA327	WATERMAN FARMS	34	Act	B		3	13	Whitman

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03680	WEST, LYLE WATER SYSTEM	34	Act	B		2	2	Whitman
95200	WESTHILL ACRES HOMEOWNERS ASSN	34	Act	B		4	10	Whitman
AA172	WHEATLAND EXPRESS	34	Act	B		1	0	Whitman
06326	WHITMAN CO PORT OF INDUSTRIAL PARK	34	Act	B		1	0	Whitman
06064	WHITMAN COUNTY LANDFILL	34	Act	B		1	0	Whitman
96526	WHITMAN COUNTY MEMORIAL AIRPORT	34	Act	B		3	8	Whitman
02746	WYNN WATER SYSTEM	34	Act	B		2	6	Whitman
HD013	ANATONE HIGHWAY MAINTENANCE SHOP	35	Act	B		1	0	Asotin
03240	ASOTIN COUNTY ROAD DEPT SHOP	35	Act	B		2	4	Asotin
07591	BOGGANS OASIS	35	Act	B		8	2	Asotin
87270	BUBBA S COUNTRY STORE & GRILL	35	Act	B		1	0	Asotin
AA343	CHIEF TIMOTHY PARK - ADMIN	35	Act	B		3	7	Asotin
13908	CLOVERLAND FREE METHODIST CHURCH	35	Act	B		2	5	Asotin
05466	COUNTRY LIVING COURT	35	Act	B		9	23	Asotin
02760	DALOSTO WATER SYSTEM	35	Act	B		3	2	Asotin
28901	GRANDE RONDE RANCHES #2	35	Act	B		12	12	Asotin
31595	HATLEY WATER SYSTEM #1	35	Act	B		4	13	Asotin
50585	MAX MALLORY WATER SYSTEM	35	Act	B		1	5	Asotin
73924	ROGERSBURG ADDITION	35	Act	B		12	4	Asotin
79035	SILCOTT WATER SYSTEM	35	Act	B		2	4	Asotin
AA486	SNAKE RIVER RENDEZVOUS	35	Act	B		14	4	Asotin
10280	SOUTH SLOPE PROPERTY OWNERS	35	Act	B		4	12	Asotin
65061	WEB OWENS WATER SYSTEM	35	Act	B		3	8	Asotin
67712	WESTERN FARM SERVICE INC	35	Act	B		2	5	Asotin
05359	LATENDRESSE, FREDERICK WELL		Act	B		1	0	Benton
FS311	GODMAN GUARD STATION	35	Act	B		3	0	Columbia
51538	TEXAS RAPIDS PARK	35	Act	B		1	0	Columbia
FW016	TUCANNON FISH HATCHERY	35	Act	B		3	8	Columbia
FS950	TUCANNON GUARD STATION	35	Act	B		1	0	Columbia
FW014	WOOTEN WILDLIFE AREA	35	Act	B		2	1	Columbia
03980	BAKERS POND WATER USERS CORP	35	Act	B		4	0	Garfield
12153	CENTRAL FERRY RESEARCH FARM	35	Act	B		3	5	Garfield
12155	CENTRAL FERRY STORE & RV PARK	35	Act	B		9	1	Garfield
FS120	CLEARWATER GUARD STATION	35	Act	B		2	0	Garfield
68810	GARFIELD COUNTY, PORT OF	35	Act	B		1	0	Garfield
43295	H & E MOBILE HOME COURT	35	Act	B		6	10	Garfield
35335	HIWAY TRAILER COURT	35	Act	B		8	20	Garfield
48704	LOWER GRANITE DAM OP HOUSING AREA	35	Act	B		11	9	Garfield
BP360	LOWER GRANITE SUBSTATION	35	Act	B		1	0	Garfield
52117	MAYVIEW GRANGE # 133	35	Act	B		1	0	Garfield
00621	MCGREGOR COMPANY	35	Act	B		2	1	Garfield

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
65064	OWSLEY SPRINGS	35	Act	B		6	15	Garfield
74330	ROSE SPRINGS #1	35	Act	B		6	0	Garfield
55931	ROSE SPRINGS #2	35	Act	B		6	0	Garfield
FS882	STENTZ SPRINGS WATER ASSOC	35	Act	B		7	0	Garfield
03575	BROMMELING WATER SUPPLY	35	Act	B		2		Whitman
95062	Central Ferry Association	35	Act	B		1	0	Whitman
05319	NU CHEM - CENTRAL FERRY	35	Act	B		7	0	Whitman
07037	PARSONAGE WATER SYSTEM	35	Act	B		1		Whitman
03777	SMITH, AL & MARIAN W.S.	35	Act	B		2		Whitman
93525	WATER ENTERPRISES	35	Act	B		6	13	Whitman
06962	BAR E DAIRY	36	Act	B		4		Adams
04862	Beus, Nathan Water System	36	Act	B		3	12	Adams
04145	Brigido Garza Water System	36	Act	B		3	14	Adams
08233	COLUMBIA NATIONAL WILDLIFE REFUGE	36	Act	B		13	1	Adams
05407	COUNTRY MEADOWS #1	36	Act	B		4	24	Adams
05408	COUNTRY MEADOWS #2	36	Act	B		8	24	Adams
03949	DMK WATER ASSN	36	Act	B		4	13	Adams
00981	EAST WALUKE WATER ASSN	36	Act	B		8	20	Adams
AA291	FARM UNIT 41 WATER ASSN	36	Act	B		3	6	Adams
05753	FLYING K PLATT	36	Act	B		4	12	Adams
08232	G & O JOHNSON	36	Act	B		2	0	Adams
08038	GARZA, ADAN JR	36	Act	B		2	5	Adams
02742	GARZA, BENITO M WATER SYSTEM	36	Act	B		2	11	Adams
00142	H-T-G WATER SYSTEM	36	Act	B		3	9	Adams
01184	HAMPTON, R.A. BUD WATER SYSTEM	36	Act	B		3	10	Adams
07234	HAYS RD WELL	36	Act	B		3	9	Adams
AA742	JAMN	36	Act	B		8	24	Adams
05768	KUNTZ WELL - PARADISE FARMS	36	Act	B		6	4	Adams
04990	LEE ROAD WATER SYSTEM	36	Act	B		4	10	Adams
04632	Mata - Linda Lane Water System	36	Act	B		3	6	Adams
07706	MEADOWLANE WELL II	36	Act	B		5	19	Adams
07008	MOHS, PALMER, WOODY WATER ASSN	36	Act	B		4	12	Adams
03677	MORGAN, MELVIN WATER SYSTEM	36	Act	B		2	3	Adams
07336	OCHOA AG UNLIMITED LLC	36	Act	B		2	0	Adams
64827	OTHELLO AIRPORT	36	Act	B		3	0	Adams
14116	OTHELLO RESEARCH UNIT	36	Act	B		3	8	Adams
07157	PARADISE FARMS 2	36	NLE	B		2	2	Adams
06623	PETERSON, EILEEN S. FAMILY TRUST	36	Act	B		3	8	Adams
14251	RADAR ROAD RANCH ESTATES	36	Act	B		4	10	Adams
70700	RADAR WATER ASSOCIATION	36	Act	B		4	10	Adams
01202	RALSTON WATER SYSTEM	36	Act	B		2	9	Adams

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AA390	Rock Pasture Water Works	36	Act	B		3	12	Adams
06653	SMITH, TED L. WATER SYSTEM	36	Act	B		4	12	Adams
AA845	Valdez Water System	36	Act	B		4	21	Adams
04351	VILLARREAL, SAM WATER SYSTEM	36	Act	B		3	6	Adams
05200	WIND HILL WATER SYSTEM	36	Act	B		5	20	Adams
AB508	Beamer Water System	36	Act	B		4	12	Benton
14240	BROADVIEW WATER ASSOCIATION	36	Act	B		10	24	Benton
AA969	CHANDLER HEIGHTS 279612	36	Act	B		2	6	Benton
AA825	Clodfelter Heights 5 & 6	36	Act	B		2	6	Benton
03890	COOK WATER SUPPLY	36	Act	B		2	6	Benton
06757	ENDICOTT WELL 1	36	Act	B		3	13	Benton
06758	ENDICOTT WELL 2	36	Act	B		6	16	Benton
AA659	JUMPING JACK	36	Act	B		2	8	Benton
18191	LDS CHURCH	36	Act	B		1	0	Benton
00309	PHELPS PUBLIC WATER SYSTEM	36	Act	B		1	0	Benton
07154	VIEW ORCHARD	36	Act	B		2	2	Benton
AA996	A.A.C.C., LLC	36	Act	B		1	0	Franklin
05766	AGRI-SERVICE NORTHWEST	36	Act	B		2	2	Franklin
02225	ALFORD FIELD WELL	36	Act	B		2	6	Franklin
AB356	All American	36	Act	B		2	10	Franklin
02355	ANDERSON LABOR CAMP - GRAY FARMS	36	Act	B		7	2	Franklin
AA093	ANGELS DAYCARE	36	Act	B		2	14	Franklin
03520	ANGLES, ALEJANDRO G.	36	Act	B		4	15	Franklin
02700	APEX DOMESTIC WATER ASSOCIATION	36	Act	B		5	13	Franklin
AB413	Arrow Ridge	36	Act	B		4	6	Franklin
29371	B & L WELLS	36	Act	B		2	5	Franklin
AA927	BAGLEY	36	Act	B		5	1	Franklin
03780	BAILIE MEMORIAL YOUTH RANCH	36	Act	B		3	2	Franklin
04456	BCE	36	Act	B		8	6	Franklin
41814	BECK MATTOX WATER SYSTEM	36	Act	B		4	3	Franklin
01537	BECK WELL	36	Act	B		2	3	Franklin
02966	BEUS WATER SYSTEM	36	Act	B		2	5	Franklin
AA169	BEUS/FLANARY	36	Act	B		2	9	Franklin
41127	BLEAZARD WATER SYSTEM	36	Act	B		2	5	Franklin
07500	BLOCK 12 DOMESTIC WATER ASSOCIATION	36	Act	B		8	20	Franklin
03041	BLOCK 19 UNIT 184 WATER SYSTEM	36	Act	B		2	9	Franklin
07638	BONNEVILLE POWER ADMIN-FRANKLIN	36	Act	B		1	3	Franklin
05091	BOYD S WATER SYSTEM	36	Act	B		2	5	Franklin
02956	BREIDER WATER SYSTEM	36	NLE	B		3	5	Franklin
08190	BREIDER, J. W.	36	Act	B		3	8	Franklin
02957	BUXBAUM WATER SYSTEM	36	NLE	B		3	7	Franklin

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
39385	CAPPS WATER SYSTEM	36	Act	B		3	8	Franklin
08202	CARDENAS, JUAN WATER SYSTEM	36	Act	B		2	4	Franklin
06614	CERVANTES, MARTIN WATER SYSTEM	36	Act	B		2	5	Franklin
17254	CLARK, DUDLEY WATER	36	Act	B		1	3	Franklin
06357	COLUMBIA VALLEY GRANGE	36	Act	B		1	0	Franklin
27876	COLUMBIA VISTA ORCHARDS	36	Act	B		4	11	Franklin
05124	COMFORT CARE	36	Act	B		1	9	Franklin
09439	COSSAIRT WATER SYSTEM	36	Act	B		2	5	Franklin
08027	COUNTRY HEARTS	36	Act	B		1	2	Franklin
02960	COUSINEAU WATER SYSTEM	36	Act	B		4	7	Franklin
62539	CUNNINGHAM WATER SYSTEM	36	Act	B		2	5	Franklin
AA434	D & E Custom Meats	36	Act	B		1	5	Franklin
88685	DE VRIES WATER SYSTEM	36	Act	B		6	15	Franklin
04481	Delbert & Linda Thompson	36	Act	B		2	6	Franklin
25525	DEPARTMENT OF FISHERIES	36	Act	B		1	3	Franklin
27140	DEPARTMENT OF GAME	36	Act	B		1	3	Franklin
AA865	Desert Harvest	36	Act	B		1	0	Franklin
19500	DIXON COMMUNITY WATER ASSN	36	Act	B		10	24	Franklin
AA085	DOTY, ROBERT E.	36	Act	B		2	6	Franklin
02962	DOUGLAS FRUIT COMPANY	36	Act	B		1	0	Franklin
14781	DREYFUS, LOUIS CORP	36	Act	B		2	0	Franklin
41981	EMPEY WELL	36	Act	B		2	5	Franklin
01542	EMTAE WATER WORKS	36	Act	B		1	0	Franklin
38779	ESCALERA WATER SYSTEM	36	Act	B		2	5	Franklin
62467	FERGUSON WATER SYSTEM	36	Act	B		4	20	Franklin
03880	FIELD, LOUIS W. WATER SYSTEM	36	Act	B		3	3	Franklin
02967	FINKBEINER WATER SYSTEM	36	Act	B		3	8	Franklin
39081	FONTANA D MARCHE SYSTEM	36	Act	B		2	8	Franklin
AA253	FRANKLIN CO FIRE DIST #3 STA 36	36	Act	B		1	0	Franklin
BP260	FRANKLIN SUBSTATION	36	Act	B		1	0	Franklin
34452	FULTON WATER SYSTEM	36	Act	B		1	3	Franklin
06997	GALLO, RAUL WATER SYSTEM	36	Act	B		2	7	Franklin
08418	GARCIA, MIGUEL	36	Act	B		2	7	Franklin
AA293	Garza Luis Water System	36	Act	B		1	4	Franklin
03056	GIESBRECHT DESERT SPRINGS	36	Act	B		2	7	Franklin
00411	GIESLER FRED	36	Act	B		3	8	Franklin
03031	GONZALES, JESUS & ADELINA	36	Act	B		2	6	Franklin
07607	GONZALEZ, HECTOR	36	Act	B		2	8	Franklin
01140	H & G SOD CO INC	36	Act	B		2	1	Franklin
24247	HAMM WATER SYSTEM	36	Act	B		2	5	Franklin
30792	HAMMONS FARM HOUSING	36	Act	B		3	10	Franklin

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
06760	HANSON, STEVEN WATER SYSTEM	36	Act	B		4	16	Franklin
02958	HEIDER FARMS INC	36	Act	B		2	6	Franklin
18136	HI - POINT ORCHARD	36	Act	B		2	5	Franklin
23339	HICKMAN, A.L.	36	Act	B		1	3	Franklin
56331	HILLE WATER SYSTEM	36	Act	B		2	3	Franklin
33360	HILLTOP WELL GROUP	36	Act	B		6	12	Franklin
33980	HOMESTED RESTAURANT	36	Act	B		1	0	Franklin
34250	HOPE VALLEY WATER ASSOCIATION	36	Act	B		6	13	Franklin
34840	HULSE WATER SYSTEM	36	Act	B		2	5	Franklin
23687	HULSE, DARYL	36	Act	B		2	5	Franklin
02954	HUMPHRIES WATER SYSTEM	36	Act	B		2	5	Franklin
01672	J & B ORCHARDS	36	Act	B		2	8	Franklin
03853	JACOBSEN, NORMAN WATER SYSTEM	36	Act	B		3	10	Franklin
06444	JAHNS PETERS	36	Act	B		2	8	Franklin
36696	JAYNE, RONDA WATER SYSTEM	36	Act	B		2	3	Franklin
22644	JJR PROPERTIES LLC	36	Act	B		10	23	Franklin
00310	JONES WELL	36	Act	B		3	8	Franklin
18171	JUDEL FOODS CORPORATION	36	Act	B		1	0	Franklin
42117	KOCH MATERIALS	36	Act	B		4	3	Franklin
43093	KOSTOFF LABOR HOUSING	36	Act	B		8	20	Franklin
02350	KRANZ-BAKLEY SYSTEM	36	Act	B		2	4	Franklin
02965	LABORERS TRAINING SITE WATER SYSTEM	36	Act	B		2	4	Franklin
02963	LARSEN WATER SYSTEM	36	Act	B		2	6	Franklin
27901	LENTZ, J.E.	36	Act	B		3	8	Franklin
39601	LENWOOD FARMS	36	Act	B		2	5	Franklin
01180	LONGHURST WATER SYSTEM	36	Act	B		2	8	Franklin
AB480	Lower Block 19	36	Act	B		4	15	Franklin
51640	LYNCH, STEVE	36	Act	B		2	5	Franklin
11066	MAHLER WATER SYSTEM	36	Act	B		2	5	Franklin
AA416	MARIA WATER SYSTEM	36	Act	B		2	5	Franklin
27994	MASON, ROBERT W.	36	Act	B		2	5	Franklin
25518	MATHIS, DOYLE	36	Act	B		4	13	Franklin
00314	MATTOX WATER SYSTEM	36	Act	B		3	8	Franklin
AB478	May Water System	36	Act	B		2	5	Franklin
22551	MC CALL WATER SYSTEM	36	Act	B		2	5	Franklin
34326	MCCROY WATER SYSTEM	36	Act	B		2	5	Franklin
00773	MCGREGOR WELL WATER SYSTEM	36	Act	B		2	5	Franklin
39127	MCLANE WATER SYSTEM	36	Act	B		6	15	Franklin
14797	MEHLENBACHER WATER SYSTEM	36	Act	B		4	10	Franklin
06445	MID COLUMBIA LAND ENTERPRISES LLC	36	Act	B		1	0	Franklin
17815	MINIELLY - SUTTON	36	Act	B		2	5	Franklin



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AB384	Modern Ag Products	36	Act	B		1		Franklin
06355	MONEY HOLE	36	Act	B		4	15	Franklin
00459	MOORE FARMS	36	Act	B		4	10	Franklin
00951	MOORE WATER SYSTEM	36	Act	B		4	8	Franklin
AB477	Moreman Water System	36	Act	B		2	5	Franklin
05767	MUNYAN WATER SYSTEM	36	Act	B		2	6	Franklin
04313	NORTHWEST TRUSS	36	Act	B		1	0	Franklin
01526	OCHOA/STUTZMAN WATER SYSTEM	36	Act	B		2	6	Franklin
41027	OLD GERMAN BAPTIST CHURCH	36	Act	B		1	0	Franklin
02673	OROZCO WELL	36	Act	B		2	19	Franklin
00188	OSSMAN II WATER SYSTEM	36	Act	B		2	5	Franklin
AA252	PASCO GENERATING STATION	36	Act	B		1	0	Franklin
66710	PECK APARTMENTS	36	Act	B		4	10	Franklin
41327	PETTY WATER SYSTEM	36	Act	B		2	5	Franklin
25914	PIONEER HI-BRED INTERNATIONAL INC	36	Act	B		4	0	Franklin
AB479	Pleasure Valley Ranch	36	Act	B		3	5	Franklin
01532	POST 60 WATER SYSTEM	36	Act	B		1	0	Franklin
AB518	Prado Water System	36	Act	B		2	7	Franklin
AA765	PRADOS DAYCARE	36	Act	B		1	2	Franklin
AA707	Promise Garden	36	Act	B		2	3	Franklin
AA143	PRUETT WATER SYSTEM	36	Act	B		2	7	Franklin
24305	RADA SONS	36	Act	B		5	8	Franklin
00782	RADAR HILL DAIRY	36	Act	B		7	21	Franklin
71050	RALPH ROAD DOMESTIC ASSN	36	Act	B		6	15	Franklin
04333	RATTLESNAKE COMMUNITY WELL	36	Act	B		4	6	Franklin
01671	REED, GLENN WATER SYSTEM	36	Act	B		3	5	Franklin
41601	REEVES WATER SYSTEM	36	Act	B		2	5	Franklin
AA817	Rios Water System	36	Act	B		2	18	Franklin
27889	RIRIE WATER SYSTEM	36	Act	B		2	5	Franklin
77669	RIVERVIEW CHURCH WATER SYSTEM	36	Act	B		2	0	Franklin
62591	ROAD 72 BERRY FARM	36	Act	B		2	3	Franklin
AB411	Rowley	36	Act	B		2	10	Franklin
03040	S DILLING LANE	36	Act	B		3	8	Franklin
03891	SAGEHILL WATER ASSOCIATION	36	Act	B		3	8	Franklin
AA540	SALAS, FERMIN	36	Act	B		2	8	Franklin
01580	SANCHEZ WATER SYSTEM	36	Act	B		2	2	Franklin
03811	SANDERSON ESTATES I	36	Act	B		4	10	Franklin
07533	SANDERSON ESTATES II	36	Act	B		6	7	Franklin
75156	SCBID ELTOPIA FIELD OFFICE	36	Act	B		11	17	Franklin
05708	SCBID LANGFORD OPERATIONS SITE	36	Act	B		1	0	Franklin
75157	SCBID MESA FIELD OFFICE	36	Act	B		9	12	Franklin

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
75159	SCBID WAHLUKE FIELD OFFICE	36	Act	B		7	20	Franklin
01063	SCHELLINGER WATER SYSTEM	36	Act	B		2	4	Franklin
20129	SCHNEIDER BROTHERS	36	Act	B		2	5	Franklin
00073	SEVEN ARROW RANCH WATER SYSTEM	36	Act	B		2	5	Franklin
00072	SHELTON WATER SYSTEM	36	Act	B		2	5	Franklin
02959	SMILLIE WATER SYSTEM	36	Act	B		4	10	Franklin
27919	SMILLIE/BAUMAN/MILLER WATER SYSTEM	36	Act	B		4	10	Franklin
16269	SMITH, ED JR WATER SYSTEM	36	Act	B		2	5	Franklin
51440	SOMJIT VANNICE WATER SYSTEM	36	Act	B		2	3	Franklin
83545	STANDARD OIL OF CALIFORNIA	36	Act	B		1	3	Franklin
83695	STAR SCHOOL DISTRICT 54	36	Act	B		1	0	Franklin
AB511	Sturtevant Water System	36	Act	B		1	5	Franklin
01935	STUTZMAN WATER SYSTEM	36	Act	B		2	5	Franklin
19934	STUTZMAN, VERLE	36	Act	B		2	5	Franklin
01530	SUN OAK ORCHARDS	36	Act	B		3	8	Franklin
AA358	SUNLEAF WATER SYSTEM	36	Act	B		1	0	Franklin
13451	SUNRISE ESTATES WATER SYSTEM	36	Act	B		14	23	Franklin
87625	TESSITORE FARM HOUSING	36	Act	B		4	10	Franklin
01534	THEROFF WATER SUPPLY	36	Act	B		2	6	Franklin
09814	THOMAS, FRANCES	36	Act	B		2	3	Franklin
29362	Thomasson Double T Dairy	36	Act	B		3	6	Franklin
07304	TIDEWATER TERMINAL CO	36	Act	B		4	0	Franklin
07777	TORRES WATER SYSTEM	36	Act	B		2	2	Franklin
30514	TUCK WATER SYSTEM	36	Act	B		2	5	Franklin
00723	Two Rivers Terminal, LLC	36	Act	B		3	0	Franklin
56636	URIBE WATER SYSTEM	36	Act	B		2	5	Franklin
07917	VALLEY VIEW 6 AND 7 WATER SYSTEM	36	Act	B		2	4	Franklin
90999	VALLEY VIEW ROAD	36	Act	B		3	10	Franklin
00091	VAN BATAVIA FARM WATER SYSTEM	36	Act	B		2	5	Franklin
AA488	VOGEL & GREGG WATER SYSTEM	36	Act	B		2	7	Franklin
00642	VOGEL POPCORN COMPANY	36	Act	B		2	0	Franklin
19057	WATERS, DONALD A	36	Act	B		2	5	Franklin
25294	WHITE, RICHARD	36	Act	B		6	15	Franklin
51891	WHITE, WILLIAM B.	36	Act	B		2	5	Franklin
56052	WILBUR ELLIS PASCO	36	Act	B		4	0	Franklin
08431	WILLIAMS WATER SYSTEM	36	Act	B		2	5	Franklin
98560	WORSHAM LABOR CAMP	36	Act	B		4	10	Franklin
41892	WSP PASCO WEIGH STATION 55	36	Act	B		1	0	Franklin
AB158	Almquist	36	Act	B		4	8	Grant
03582	ARROW PLACE WATER ASSOCIATION	36	Act	B		9	24	Grant
30464	DAYTON SHORT PLAT	36	Act	B		2	5	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AA109	FLANAGAN & JONES	36	Act	B		10		Grant
AB159	Mike Taylor Orchards	36	Act	B		1		Grant
03878	MOORE, FRED WELL	36	Act	B		2	4	Grant
02875	RISENMAY WATER SYSTEM	36	Act	B		2	6	Grant
AA133	ZIRKLE-VINO	36	Act	B		5	20	Grant
62181	CORONADO WATER SYSTEM	36	Act	B		2	5	Walla Walla
33184	LOCATI, FRANK	36	Act	B		2	5	Walla Walla
05224	BAKER COMMUNITY WELL SYSTEM	36	Act	B		4	4	Yakima
AB211	74708	37	Act	B		2	4	Benton
04269	A & B ASPHALT	37	Act	B		10		Benton
06873	AGTOPROF INC - BADGER MOUNTAIN	37	Act	B		4	12	Benton
04992	ALEXANDER KING TULL ROAD WELL	37	Act	B		2	2	Benton
08298	ALEXIS	37	Act	B		2	4	Benton
AB212	Allison Water System	37	Act	B		2	2	Benton
03065	AMMERMAN, RANDY WATER SYSTEM	37	Act	B		2	4	Benton
AB509	Anderson, Mina Water System	37	Act	B		2	5	Benton
AB488	Andresen, David Water System	37	Act	B		2	5	Benton
04912	ANSELM WATER SYSTEM	37	Act	B		2	5	Benton
34401	APARICIO WATER SYSTEM	37	Act	B		2	5	Benton
07232	AULD RANCH	37	Act	B		20		Benton
05323	AUSTIN BARKER WATER SYSTEM	37	Act	B		2	5	Benton
09864	AYERS, BOB #1 SP 479	37	Act	B		4	10	Benton
17795	B & B EQUIPMENT COMPANY	37	Act	B		2	2	Benton
AB490	B & B Northwest	37	Act	B		4	5	Benton
15821	BADGER CANYON RANCHETTES	37	Act	B		7	18	Benton
03730	BADGER MOUNTAIN ESTATES	37	Act	B		7	13	Benton
08113	BALL WELL WATER SYSTEM	37	Act	B		2	6	Benton
32071	BAR 80 RANCHETTES	37	Act	B		9	22	Benton
04432	BARNARD GRIFFIN WINERY	37	Act	B		10		Benton
01645	BAUMGARTEN WATER SYSTEM	37	Act	B		2	4	Benton
07931	BECKS PUBLIC WELL	37	Act	B		2	4	Benton
AA999	BEIGHTOL - BRIDGEMAN WELL	37	Act	B		2	6	Benton
01219	BENTON CO FIRE DIST 1 STATION 5	37	Act	B		10		Benton
AA321	Benton Co PW Maintenance Facility	37	Act	B		10		Benton
07601	BENTON COUNTY FIRE DISTRICT 3	37	Act	B		10		Benton
12740	BLACKSMITH WATER SYSTEM	37	Act	B		2	5	Benton
07803	BLACKWOOD CANYON	37	Act	B		10		Benton
11078	BOLING, W.E.	37	Act	B		4	13	Benton
01792	BOOKWALTER WINERY	37	Act	B		2	2	Benton
07691	BORDEN, EARL WELL	37	Act	B		2	7	Benton
51127	BORMS, LES WATER SYSTEM	37	Act	B		2	5	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AB505	Boushey, Norma	37	Act	B		2	5	Benton
08090	BRADLEY, L.G.	37	Act	B		2	5	Benton
01535	BRAMSON WATER SYSTEM	37	Act	B		2	5	Benton
08235	BRENS MOBILE HOME COURT	37	Act	B		8	12	Benton
10939	BRETZ WATER SYSTEM	37	Act	B		2	6	Benton
02184	BROUNS WATER SYSTEM	37	Act	B		2	7	Benton
34361	BROWN S WATER SYSTEM	37	Act	B		2	5	Benton
AB507	Brown, Ivan Water System	37	Act	B		5	15	Benton
08880	BROWNS MOBILE PARK	37	Act	B		7	15	Benton
AB094	Burchard Water System	37	Act	B		2	3	Benton
41496	BUTLER WATER SYSTEM	37	Act	B		2	4	Benton
03483	CALVERT WATER SYSTEM	37	Act	B		2	6	Benton
41614	CANNON WATER SYSTEM	37	Act	B		2	5	Benton
01142	CARLSON WATER SYSTEM	37	Act	B		1	3	Benton
01932	CARROLL/BAUMGARTEN WATER SYSTEM	37	Act	B		2	6	Benton
09464	CASS WATER SYSTEM	37	Act	B		3	8	Benton
03498	CERVANTES, REYNALDO WTR. SYS.	37	Act	B		3	6	Benton
12231	CHAMBERS WATER SUPPLY	37	Act	B		5	13	Benton
AA748	CHANDLER HEIGHTS 279643	37	Act	B		2	6	Benton
AA466	CHANDLER HEIGHTS 5154	37	Act	B		2	6	Benton
AA539	CHANDLER HEIGHTS 6463	37	Act	B		2	6	Benton
06042	CHANDLER JV	37	Act	B		1	0	Benton
12234	CHANDLER POWER PLANT	37	Act	B		1	0	Benton
AA899	Chandler Reach Vineyards	37	Act	B		2	0	Benton
38701	CHAPPEL WATER SYSTEM	37	Act	B		2	5	Benton
56177	CHATEAU STE MICHELLE - VINEYARD 4	37	Act	B		2	7	Benton
AB380	Clark Boyer	37	Act	B		1	2	Benton
34724	CLARK WATER SYSTEM	37	Act	B		3	8	Benton
07855	CLARK, JAY DEE WATER SYSTEM	37	Act	B		3	5	Benton
01663	CLARK, W. G. WATER SYSTEM	37	Act	B		2	2	Benton
15914	CLEAVENGER, ROBY	37	Act	B		2	5	Benton
AA646	CLODFELTER HEIGHTS 1 & 2	37	Act	B		2	6	Benton
AB448	Clodfelter Heights 11 & 12	37	Act	B		2	6	Benton
AB173	Clodfelter Heights 13 & 14	37	Act	B		2	6	Benton
AB093	Clodfelter Heights 3 & 4	37	Act	B		2	6	Benton
AB033	Clodfelter Heights 7 & 8	37	Act	B		2	6	Benton
AA843	Clodfelter Heights 9 & 10	37	Act	B		2	4	Benton
01528	COLE, RC WATER SYSTEM	37	Act	B		2	4	Benton
56186	COLUMBIA CREST WINERY, MAIN SHOP	37	Act	B		5	6	Benton
56188	COLUMBIA CREST WINERY, SAFETY SERV	37	Act	B		4	0	Benton
AA852	Cornwell	37	Act	B		2	5	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01175	COUNTRY GARDENS MOBILE HOME PARK	37	Act	B		4	12	Benton
06041	COX, ROBERT WATER SYSTEM	37	Act	B		2	6	Benton
AB438	Craig Smith	37	Act	B		2	5	Benton
05018	CRAWFORD, ROBERT WATER SYSTEM	37	Act	B		4	7	Benton
06385	CROREY MECHANICAL	37	Act	B		1	0	Benton
00094	CROSBY RANCH WATER SYSTEM	37	Act	B		2	5	Benton
07724	CRUZ ESTATES LLC	37	Act	B		2	3	Benton
07212	D&S FARMS	37	Act	B		3	2	Benton
34465	DAVENPORT WATER SYSTEM	37	Act	B		5	12	Benton
56204	DAVIS - WALKER WATER SYSTEM	37	Act	B		2	5	Benton
02179	DAWSON RANCH	37	Act	B		3	5	Benton
51676	DEANS WELL 2	37	Act	B		2	5	Benton
18275	DEATONS SERVICE & GROCERY	37	Act	B		1	3	Benton
06968	DESERT ROSE H2O SUPPLY #2	37	Act	B		6	6	Benton
06967	DESERT ROSE H2O SUPPLY #1	37	Act	B		5	5	Benton
00108	DONOVAN WATER SYSTEM	37	Act	B		2	5	Benton
05322	DROTT WATER SYSTEM	37	Act	B		2	9	Benton
00138	DYKEMAN WATER SYSTEM	37	Act	B		2	5	Benton
07745	EASTERLY WATER SYSTEM	37	Act	B		1	3	Benton
AA983	ELM TREE WELL	37	Act	B		2	4	Benton
00775	Evans, Donald Water System	37	Act	B		2	6	Benton
00724	EVERS, DON WATER SYSTEM	37	Act	B		6	15	Benton
62428	FARAGHER WATER SYSTEM	37	Act	B		2	5	Benton
41483	FARTHING WATER SYSTEM	37	Act	B		2	3	Benton
15026	FAULKNER WATER SYSTEM	37	Act	B		2	3	Benton
AB446	Fidelina Day Care	37	Act	B		1	4	Benton
AA816	FISH WATER SYSTEM	37	Act	B		2	5	Benton
03678	FISHBACK-HSIEH WATER SYSTEM	37	Act	B		3	10	Benton
07979	FISHER WATER SYSTEM	37	Act	B		2	8	Benton
38690	FLAGOR S WELL	37	Act	B		2	5	Benton
AA494	FOX HAMILTON	37	Act	B		2	4	Benton
06996	FRENCH WATER SYSTEM	37	Act	B		2	7	Benton
18606	FRENCH, EARL WATER SYSTEM	37	Act	B		2	5	Benton
32074	FRONTIER RANCHETTES #2	37	Act	B		3	8	Benton
07621	FRONTIER WATER SYS	37	Act	B		7	18	Benton
AA842	Fuller Ranch	37	Act	B		2	4	Benton
AA654	FUNBAR WATER SYSTEM	37	Act	B		2	10	Benton
34036	GALLIHER WATER SYSTEM	37	Act	B		8	20	Benton
03902	GOOSE GAP I	37	Act	B		3	6	Benton
03899	GOOSE GAP II	37	Act	B		2	2	Benton
08362	GOOSE RIDGE LLC - EAST	37	Act	B		1	0	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
08396	GOOSE RIDGE WEST	37	Act	B		2	4	Benton
00725	GOROCH, CHESTER WATER SYSTEM	37	Act	B		3	13	Benton
28640	GRAHAM, DONALD E	37	Act	B		3	5	Benton
17751	GRANNY S	37	Act	B		2	5	Benton
08164	GREEN ACRES DOMESTIC WELL	37	Act	B		9	22	Benton
88180	GREEN CIRCLES FARM	37	Act	B		1	0	Benton
02216	HANG FOUR DAIRY	37	Act	B		2	2	Benton
01670	HARRINGTON HEIGHTS WATER SYSTEM	37	Act	B		4	10	Benton
31497	HARTLEY, BRENT WATER SYSTEM	37	Act	B		8	20	Benton
00197	HAWN WATER SYSTEM	37	Act	B		2	5	Benton
05794	HEDGES CELLARS	37	Act	B		1	0	Benton
31369	HEEB, CALVIN M. WATER SYSTEM	37	Act	B		2	5	Benton
34376	HEINTZ WATER WORKS	37	Act	B		3	8	Benton
03038	HERITAGE ASSEMBLY OF GOD	37	Act	B		1	0	Benton
AA039	HERMOSILLO WATER SYSTEM	37	Act	B		2	11	Benton
AB134	Hermosillo Well	37	Act	B		1	6	Benton
AA668	HERNANDEZ DAY CARE	37	Act	B		1	2	Benton
AA388	HERNANDEZ, RAQUEL	37	Act	B		1	10	Benton
04086	HICKMAN WATERWORKS	37	Act	B		2	4	Benton
33520	HIWAY CABIN CAMP	37	Act	B		8	20	Benton
38536	HODGSON WATER SYSTEM	37	Act	B		2	5	Benton
62486	HOGUE CHILDREN TRUST WATER SYSTEM	37	Act	B		2	8	Benton
00417	HOGUE RANCHES	37	Act	B		1	3	Benton
33663	HOGUE RANCHES - HOME PLACE	37	Act	B		5	9	Benton
11081	HOLLAND WATER SYSTEM	37	Act	B		2	5	Benton
03569	HOME BUILDERS ASSN OF TRI-CITIES	37	Act	B		1	0	Benton
08243	HOMER & RIGBY WATER SYSTEM	37	Act	B		4	10	Benton
AA431	HORSE HEAVEN HILLS ASSN	37	Act	B		8	8	Benton
34425	HORSE HEAVEN HILLS MOBILE HOME PARK	37	Act	B		8	18	Benton
03375	HORST, JOE WATER SYSTEM	37	Act	B		3	19	Benton
56287	HUMASON, JACK L. WATER SYSTEM	37	Act	B		2	5	Benton
41151	HURT S USED AUTO PARTS	37	Act	B		3	5	Benton
07462	HUTCHINSON WATER SYSTEM	37	Act	B		2	11	Benton
AB265	Islas Water System	37	Act	B		2	4	Benton
00206	JACOBSON WATER SYSTEM	37	Act	B		2	5	Benton
01179	JAY DEE CLARK WATER SYSTEM	37	Act	B		2	4	Benton
36950	JONES CORNER WATER ASSN	37	Act	B		5	12	Benton
00536	JONES, ALAN L.	37	Act	B		2	5	Benton
02505	JONES, IDA WATER SYSTEM	37	Act	B		2	5	Benton
AB067	JUANA PEREZ WATER SYSTEM	37	Act	B		1	4	Benton
37100	JUDKINS SUBDIVISION	37	Act	B		8	20	Benton



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03019	KAMROWSKI WATER SYSTEM	37	Act	B		2	4	Benton
AB096	Kellis Korner	37	Act	B		2	5	Benton
03249	KEYES, GORDON WATER SYSTEM	37	Act	B		1	0	Benton
06039	KIONA 1 WATER SYSTEM	37	Act	B		2	2	Benton
17764	KIONA VINEYARDS	37	Act	B		2	2	Benton
AB113	Klinginsmith	37	Act	B		2	8	Benton
08299	KOLZIG, OLIE WATER SYSTEM	37	Act	B		2	5	Benton
08534	KRAUS WATER SYSTEM	37	Act	B		2	5	Benton
07461	KUHLMAN S WATER SYSTEM	37	Act	B		2	4	Benton
03935	LADINES WATER SYSTEM	37	Act	B		2	5	Benton
00697	LEMON WATER SYSTEM	37	Act	B		4	18	Benton
07690	LEON/MERKLE	37	Act	B		2	7	Benton
AA658	LM 7273	37	Act	B		2	5	Benton
AA913	Lob Lane Community Well	37	Act	B		2	5	Benton
56521	LONG, JAMES W	37	Act	B		3	8	Benton
AA108	LOST ACRES HOMEOWNERS ASSN	37	Act	B		4	12	Benton
03457	LUCAS, RON WATER SYSTEM	37	Act	B		2	8	Benton
AB404	Macias	37	Act	B		2	3	Benton
99285	MADDEN WATER SYSTEM	37	Act	B		7	20	Benton
04818	MANUS, JULIE WATER SYSTEM	37	Act	B		2	6	Benton
03873	MARKEL/COX WATER SYSTEM	37	Act	B		2	3	Benton
00582	MARKSON MARK WELL	37	Act	B		2	5	Benton
27906	MARTIN-TOWNLEY	37	Act	B		2	5	Benton
AB390	Martinez Daycare	37	Act	B		1	4	Benton
AA033	MATTESON WATER SYSTEM	37	Act	B		2	5	Benton
30527	MAYOVSKY, DWAIN E	37	Act	B		2	3	Benton
00312	MCBRIDE/RIENDEAU WATER SYSTEM	37	Act	B		2	5	Benton
34356	MCCLURE WATER SYSTEM	37	Act	B		3	8	Benton
02905	MCENTIRE, JOHN WATER SYSTEM	37	Act	B		2	6	Benton
00847	MCGILTON WATER SYSTEM	37	Act	B		2	8	Benton
AA364	McLaughlin Water System	37	Act	B		1	0	Benton
34677	MCLEMORE WATER SYSTEM	37	Act	B		2	5	Benton
38639	MEAD S WATER SYSTEM	37	Act	B		2	5	Benton
06440	MEAD WATER SYSTEM	37	Act	B		2	6	Benton
06683	MELDE WATER SYSTEM	37	Act	B		2	6	Benton
AA984	MENDOZA AUTO SALES	37	Act	B		2	7	Benton
11076	MID-COLUMBIA LIBRARY	37	Act	B		1	0	Benton
BP390	MIDWAY SUBSTATION	37	Act	B		1	0	Benton
39216	MILLS WATER SYSTEM	37	Act	B		3	4	Benton
00064	MINICK WELL	37	Act	B		2	0	Benton
AA318	MONAS WATER SYSTEM	37	Act	B		2	4	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
08296	MORITZKY WELL	37	Act	B		2	5	Benton
57620	MUNN, ROBERT WELL	37	Act	B		7	20	Benton
AA645	MURPHEYS WELL	37	Act	B		1	4	Benton
AA319	Murray, Mark Water System	37	Act	B		2	6	Benton
03773	MYERS WELL	37	Act	B		4	18	Benton
06207	NORTH THOMAS ROAD WELL ASSN	37	Act	B		2	5	Benton
16953	O CONNOR, ROBERT E	37	Act	B		2	5	Benton
38727	OAKWOOD CELLARS	37	Act	B		2	4	Benton
11824	OASIS FARM #3	37	Act	B		2	5	Benton
02872	OGDONS FOLLY	37	Act	B		4	16	Benton
AB135	Olivias Daycare	37	Act	B		2	5	Benton
AA225	OLTJENBRUNS - 1	37	Act	B		2	9	Benton
05220	PALM WATER SYSTEM	37	Act	B		2	6	Benton
00077	PARK WATER SYSTEM	37	Act	B		4	10	Benton
00313	PARMER WATER SYSTEM	37	Act	B		2	5	Benton
01774	PAXTON WATER SYSTEM	37	Act	B		2	6	Benton
02987	PEARSON WATER SYSTEM	37	Act	B		4	4	Benton
05523	PECK WELL	37	Act	B		2	7	Benton
51014	PELOQUIN, PETER J.	37	Act	B		3	5	Benton
10946	PENNEY, MICHAEL JOHN WATER SYSTEM	37	Act	B		2	6	Benton
00095	PENNY CREEK KENNEL WATER SYSTEM	37	Act	B		2	5	Benton
18421	PERRAULT WATER SYSTEM	37	Act	B		2	5	Benton
51121	PETERSEN, CARL	37	Act	B		2	6	Benton
05282	PHELPS WATER SYSTEM	37	Act	B		2	5	Benton
08115	PHILLIPS WELL	37	Act	B		2	8	Benton
29593	PIDCOCK/GRAY	37	Act	B		2	5	Benton
AB177	Pine Hollows	37	Act	B		2	6	Benton
04688	POLLUN-MASON WATER SYSTEM	37	Act	B		2	4	Benton
04036	PRATT, DEAN WATER SYSTEM	37	Act	B		2	15	Benton
14934	PRIVATE WELL	37	Act	B		2	2	Benton
07084	RAVAGE/RODRIGUEZ WATER YSSTEM	37	Act	B		2	6	Benton
07957	RAYA, JUAN WELL	37	Act	B		2	8	Benton
AB510	Rea G. Brong	37	Act	B		2	5	Benton
02574	REDDOUT WATER SYSTEM	37	Act	B		2	6	Benton
06879	REDMAN WELL	37	Act	B		1	2	Benton
12691	REYMANN S WATER WORKS	37	Act	B		1	3	Benton
01644	RICHARDSON WATER SYSTEM	37	Act	B		2	4	Benton
38641	RINGO, ROGER WATER SYSTEM	37	Act	B		2	5	Benton
AB097	Rivera Daycare	37	Act	B		2	3	Benton
03937	RIVERA, ROBERTO WATER SYSTEM	37	Act	B		2	11	Benton
18751	RIVERSIDE BALL FIELD	37	Act	B		1	0	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AB435	Robert Thoms. Jr Water System	37	Act	B		2	5	Benton
39140	ROBINSON WELL	37	Act	B		2	5	Benton
02702	ROLLING HILLS RANCHETTES	37	Act	B		8	19	Benton
34114	ROLLING VISTA WATER ASSOCIATION	37	Act	B		5	17	Benton
AB468	Romero Daycare	37	Act	B		1	4	Benton
09426	ROSS WATER SYSTEM	37	Act	B		2	3	Benton
74660	ROYS LABOR CAMP	37	Act	B		2	0	Benton
AB049	Ruiz Daycare	37	Act	B		2	4	Benton
06672	RUPPERT ROAD HOA WELL	37	Act	B		3	9	Benton
77875	S&W ACRES	37	Act	B		4	12	Benton
05362	SAGEBRUSH WATER SYSTEM	37	Act	B		1	0	Benton
28495	SANDERS WATER SYSTEM	37	Act	B		2	5	Benton
05913	SANDOVAL WATER SYSTEM	37	Act	B		2	7	Benton
00460	SANDOZ WATER ASSN	37	Act	B		2	5	Benton
25307	SCHROEDER, LYLE F & CHARLOTTE A	37	Act	B		3	5	Benton
06441	SEA WATER	37	Act	B		2	8	Benton
01579	SETH RYAN WINERY	37	Act	B		2	2	Benton
03598	SHEEP CANYON #1	37	Act	B		4	8	Benton
04682	SHEEP CANYON #2	37	Act	B		4	12	Benton
04683	SHEEP CANYON #3	37	Act	B		2	6	Benton
04684	SHEEP CANYON #4	37	Act	B		4	12	Benton
34414	SHORT PLAT 1338 WATER SYSTEM	37	Act	B		4	10	Benton
AB497	Short Plat 2623	37	Act	B		2	2	Benton
02562	SHORT PLAT 740 WATER SYSTEM	37	Act	B		4	12	Benton
07431	SHRADER WATER SYSTEM	37	Act	B		2	6	Benton
06966	SIEMS, KEITH WATER SYSTEM	37	Act	B		2	8	Benton
17202	SIMPSON, STEVE	37	Act	B		3	7	Benton
AB484	Slind Water System	37	Act	B		2	5	Benton
AB417	Smanse Water System	37	Act	B		2	5	Benton
03638	SMITH & MANNING WATER SYSTEM	37	Act	B		3	11	Benton
AA123	SMITH FAMILY FARMS	37	Act	B		2	6	Benton
AB176	Smith Russell	37	Act	B		3	6	Benton
06250	SMITH WATER SYSTEM	37	Act	B		2	7	Benton
80505	SMITH, JACK D. WATER SYSTEM	37	Act	B		5	13	Benton
80850	SNIPES CREEK WATER ASSN	37	Act	B		7	15	Benton
03727	SORENSEN WATER SYSTEM	37	Act	B		2	2	Benton
07337	SOUIX WILLIAMS	37	Act	B		2	2	Benton
AB393	Stamps Water System	37	Act	B		2	5	Benton
AB394	Stanfield Water	37	Act	B		3	3	Benton
AA320	STEINBACHS WATER SYSTEM	37	Act	B		2	6	Benton
AB397	Steve Smith	37	Act	B		2	5	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07789	STRICKLAND FARM	37	Act	B		2	6	Benton
AB434	Stroch Water System	37	Act	B		2	5	Benton
00071	SUHADOLNIK WATER SYSTEM	37	Act	B		2	5	Benton
34481	SULLIVAN FAMILY WATER SYSTEM	37	Act	B		2	5	Benton
41690	SULLIVAN WATER SYSTEM	37	Act	B		2	8	Benton
56649	SUN RIVER ELECTRIC WATER SYSTEM	37	Act	B		1	0	Benton
03974	SUNDANCE ESTATES	37	Act	B		4	10	Benton
17228	SUNLIT ORCHARD WATER	37	Act	B		3	8	Benton
02507	SUNNY HOP RANCHES	37	Act	B		3	3	Benton
38541	SURPLUS/BENNETT WATER SYSTEM	37	Act	B		2	5	Benton
03253	SWANK FAMILY WELL	37	Act	B		3	8	Benton
38940	SWEETWATER	37	Act	B		4	16	Benton
AA660	T & S SYSTEMS	37	Act	B		5	10	Benton
AA547	TAGGARES WATER SYSTEM	37	Act	B		2	0	Benton
02503	TERRA BLANCA VINTNERS	37	Act	B		2	2	Benton
AB476	Terrea Bell Water System	37	Act	B		3	5	Benton
11201	THIEDERMAN WATER SYSTEM	37	Act	B		3	11	Benton
AA124	THORNTON-BURTON	37	Act	B		2	2	Benton
05222	TRI-STAKE WELFARE FARM	37	Act	B		1	0	Benton
09601	TULLIS WATER SYSTEM	37	Act	B		6	15	Benton
07775	TURF PRO WATER SYSTEM	37	Act	B		2	4	Benton
AB028	Two K Bross Well	37	Act	B		2	10	Benton
39476	TWO KEYS RANCH	37	Act	B		7	5	Benton
06977	TZIB WATER SYSTEM	37	Act	B		2	4	Benton
56558	VALLEY METAL SALVAGE	37	Act	B		2	4	Benton
00207	VALLEY PIPE COMPANY	37	Act	B		3	0	Benton
21599	VASILE, ED	37	Act	B		2	5	Benton
AB392	View Crest Ranch	37	Act	B		2	5	Benton
AB107	Vineyard Heights	37	Act	B		3	10	Benton
02920	VINNEDGE WATER SYSTEM	37	Act	B		5	12	Benton
92680	WALNUT GROVE BOARDING HOME	37	Act	B		37	1	Benton
56391	WATERS, HARRY	37	Act	B		2	5	Benton
09840	WATTS WATER SYSTEM	37	Act	B		5	19	Benton
03848	WATTS/KLUTE WATER SYSTEM	37	Act	B		3	8	Benton
51627	WEAVER, GEORGE	37	Act	B		2	5	Benton
05852	WEBER CANYON #1	37	Act	B		2	8	Benton
41986	WELD, MYRON WATER SYSTEM	37	Act	B		2	5	Benton
AB485	Well Done Water System	37	Act	B		2	2	Benton
06589	WEST KIONA HEIGHTS #1 WATER SYSTEM	37	Act	B		6	20	Benton
AA985	WESTPARK ORCHARDS	37	Act	B		2	1	Benton
02449	WIGGINS, ELVIS	37	Act	B		2	5	Benton

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
22539	WILDE, RONALD	37	Act	B		2	4	Benton
AB491	William Atkins	37	Act	B		2	5	Benton
11999	WILLIAMS, BOB WATER SYSTEM	37	Act	B		2	5	Benton
11063	WILLIAMS, EVA WATER SYSTEM	37	Act	B		2	5	Benton
93190	WSU IRRIGATED AGRICULTURE-ROSA U	37	Act	B		2	5	Benton
99083	YAKIMA CHIEF RANCHES LABOR CAMP	37	Act	B		2	5	Benton
05365	YATES WATER SYSTEM	37	Act	B		2	6	Benton
34397	YOUNG WATER SYSTEM	37	Act	B		2	5	Benton
03809	ZESIGER WATER SYSTEM	37	Act	B		2	5	Benton
AB439	Zeuge Water System	37	Act	B		2	5	Benton
AB225	Curtis Feed Lot	37	Act	B		1		Franklin
03775	PARKHILL WATER SYSTEM	37	Act	B		2	7	Franklin
34439	WISSE WATER SYSTEM	37	Act	B		2	5	Franklin
AB486	Wordens Well	37	Act	B		2	4	Franklin
08103	PFEIFFER MEADOWS II WELL 1	37	Act	B		2	6	Grant
08105	PFEIFFER MEADOWS II WELL 2	37	Act	B		4	12	Grant
08106	PFEIFFER MEADOWS II WELL 3	37	Act	B		3	9	Grant
08107	PFEIFFER MEADOWS II WELL 4	37	Act	B		4	12	Grant
08108	PFEIFFER MEADOWS II WELL 5	37	Act	B		3	9	Grant
08109	PFEIFFER MEADOWS II WELL 6	37	Act	B		4	7	Grant
42487	HANNAH ROAD WATER SYSTEM	37	Act	B		3	8	Kittitas
26100	43RD STREET WELL	37	Act	B		4	10	Yakima
03996	73rd & Occidental	37	Act	B		3	12	Yakima
05167	A & H ORCHARDS	37	Act	B		2	7	Yakima
03512	A/B MAPLE GROVE WATER SYSTEM	37	Act	B		2	3	Yakima
04125	ADAMS, RANDALL C. WATER SYSTEM	37	Act	B		2	10	Yakima
00430	ADULT MOBIL PARK	37	Act	B		6	15	Yakima
NR015	AHTANUM CAMP	37	Act	B		11	1	Yakima
00527	AHTANUM HOME GROCERY	37	Act	B		1	3	Yakima
08416	AHTANUM RIDGE WATER USERS ASSN	37	Act	B		2	4	Yakima
00003	AIRPORT RANCH WATER SYSTEM	37	Act	B		4	4	Yakima
02469	ALEGRIA COMMUNITY WELL	37	Act	B		2	6	Yakima
01615	ALLANS MARKET	37	Act	B		1	3	Yakima
05046	ALMAGUER WATER SYSTEM	37	Act	B		2	5	Yakima
06376	AMMERMAN WELL	37	Act	B		2	2	Yakima
04875	APPLE TREE WATER SYSTEM	37	Act	B		10		Yakima
02754	APPLE VALLEY MOBILE COURT	37	Act	B		8	20	Yakima
02852	AQUA WELL ASSOCIATION	37	Act	B		6	17	Yakima
03500	AZOR WATER ASSN	37	Act	B		6	13	Yakima
02820	B & B WATER SYSTEM	37	Act	B		2	9	Yakima
03136	B & Y WELL	37	Act	B		2	10	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03583	B AND R ENTERPRISES WATER	37	Act	B		5	13	Yakima
04164	BALES CUSTOM MEATS	37	Act	B		2	5	Yakima
04119	BARNES WELL	37	Act	B		2	4	Yakima
05090	BARRERA WATER SYSTEM	37	Act	B		4	12	Yakima
04097	BAUGHMAN WELL 1	37	Act	B		2	10	Yakima
06123	BAUGHMAN WELL 2	37	Act	B		4	12	Yakima
06126	BAUGHMAN WELL 3	37	Act	B		2	10	Yakima
51888	BBMS COMM WELL	37	Act	B		4	10	Yakima
05153	BEAUTROW MOBILE PARK	37	Act	B		2	5	Yakima
05242	BEKINS VAN & STORAGE	37	Act	B		1	3	Yakima
04071	BELZER WATER SUPPLY	37	Act	B		2	3	Yakima
02269	BEN ROY INDEPENDENCE RD WATER USERS	37	Act	B		3	8	Yakima
00011	BEN ROY RAY ROAD WELL ASSN	37	Act	B		4	10	Yakima
05733	BENROY HIWAY 22 WATER USERS ASSN	37	Act	B		4	10	Yakima
05736	BENROY KING WATER USERS ASSN	37	Act	B		4	10	Yakima
05740	BENROY PIONEER LANE WATER USERS	37	Act	B		4	10	Yakima
05818	BERGER WELL	37	Act	B		6	15	Yakima
07673	BERNDT, TOM WATER SYSTEM	37	Act	B		2	10	Yakima
01724	BIG RAGU WATER SYSTEM	37	Act	B		2	4	Yakima
08411	BIG VALLEY WATER USERS ASSN	37	Act	B		4	10	Yakima
01152	BIRCHFIELD MANOR	37	Act	B		2	0	Yakima
07045	BIRDAARD WATER SYSTEM	37	Act	B		3	6	Yakima
AB383	Bittner	37	Act	B		4	1	Yakima
07185	BITTNER WATER ASSN	37	Act	B		9	23	Yakima
AA294	BLACK ROCK CREEK PRO SHOP	37	Act	B		1	0	Yakima
03268	BLAINE RD WATER SYSTEM	37	Act	B		3	12	Yakima
06710	BOS, HARRY WATER SYSTEM	37	Act	B		3	4	Yakima
05412	BRUNDAGE WATER SYSTEM	37	Act	B		4	8	Yakima
09130	BUENA LABOR CAMP	37	Act	B		2	3	Yakima
04833	CAMPBELL COMMUNITY WATER SYSTEM	37	Act	B		2	5	Yakima
04830	CANYON RIVER PARTNERSHIP	37	Act	B		2	10	Yakima
08112	CAROUSEL WATER SYSTEM	37	Act	B		2	10	Yakima
08152	CENTURY ONE	37	Act	B		2	5	Yakima
04143	CHARVET WELL	37	Act	B		2	4	Yakima
12753	CHEYNE ROAD WATER	37	Act	B		4	10	Yakima
12795	CHINOOK APARTMENTS	37	Act	B		12	24	Yakima
13937	COHODAS FRANK CO	37	Act	B		8	3	Yakima
13935	COHODAS LANCASTER FRANK CO	37	Act	B		4	10	Yakima
13938	COHODAS LANDCASTER FRANK CO #3	37	Act	B		4	10	Yakima
05125	COLEMAN, JAMES COMMUNITY WELL	37	Act	B		5	10	Yakima
14063	COLONIAL INN	37	Act	B		12	13	Yakima



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
00261	COMMONWEALTH TERRACE WATER	37	Act	B		5	8	Yakima
AB261	Community Alliance Church	37	Act	B		2	0	Yakima
03845	CONRAD WELL #1	37	Act	B		2	5	Yakima
15018	CORNER GROCERY	37	Act	B		1	3	Yakima
15504	COUNTRY CORNER MARKET	37	Act	B		1	3	Yakima
15517	COUNTRY MEATS	37	Act	B		2	5	Yakima
04132	COUNTRY TERRACE ESTATES	37	Act	B		7	24	Yakima
00845	COW PALACE WATER SYSTEM	37	Act	B		2	5	Yakima
02224	COWEL WATER SYSTEM	37	Act	B		2	7	Yakima
56246	Coyote Creek Water System #1	37	Act	B		5	15	Yakima
AB010	Coyote Creek Water System #2	37	Act	B		9	21	Yakima
15789	CRABB,JAY R WELL	37	Act	B		2	5	Yakima
07309	D STONE WATER SYSTEM	37	Act	B		3	16	Yakima
06284	D&F CONSTRUCTION	37	Act	B		3	15	Yakima
03729	DAD 155 WATER SYSTEM	37	Act	B		3	12	Yakima
00276	DAHLE WELL	37	Act	B		2	4	Yakima
06969	DE LOS SANTOS WATER USERS ASSN	37	Act	B		4	10	Yakima
03043	DEEP 4 WATER COMPANY	37	Act	B		2	10	Yakima
56041	DEERINGHOFF ROAD WATER USERS ASSN	37	Act	B		3	8	Yakima
01739	DEKKER WATER SYSTEM	37	Act	B		2	7	Yakima
18591	DEL MONTE COM WELL 6	37	Act	B		1	3	Yakima
03387	DEREK WELL	37	Act	B		6	18	Yakima
AA839	Diamond Freight	37	Act	B		1	0	Yakima
AA229	DIERO WATER ASSN	37	Act	B		4	10	Yakima
19320	DILL WELL	37	Act	B		3	8	Yakima
03050	DOUGLAS ROAD WATER USERS ASOC.	37	Act	B		4	12	Yakima
02189	DOVEL WELL	37	Act	B		3	3	Yakima
03653	DREAM PUMP	37	Act	B		2	8	Yakima
11750	EASLEY HAULING SERVICE	37	Act	B		1	3	Yakima
41366	ELK DRIVE WATER SYSTEM	37	Act	B		2	10	Yakima
05036	ELLISON PUMP	37	Act	B		2	4	Yakima
23127	ELMERS TRADING POST	37	Act	B		2	5	Yakima
01059	ENGLISH BED & BREAKFAST	37	Act	B		2	3	Yakima
27118	EUCLID GAMACHE WATER	37	Act	B		4	10	Yakima
05884	FALCON RIDGE WATER ASSOCIATION	37	Act	B		2	6	Yakima
24665	FARMER WATER SYSTEM	37	Act	B		4	10	Yakima
25306	FISCUS MOTOR FREIGHT INC	37	Act	B		1	3	Yakima
05915	FISK WATER SYSTEM	37	Act	B		4	16	Yakima
03378	FLAGSTONE WATER ASSOCIATION	37	Act	B		8	21	Yakima
15525	FORD LANE WATER ASSOCIATION	37	Act	B		7	20	Yakima
05533	FOSTER, GAIL WATER SYSTEM	37	Act	B		6	18	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
05468	FRANK WATER USERS ASSOCIATION	37	Act	B		5	17	Yakima
08181	FRIEND COMMUNITY WELL	37	Act	B		1	3	Yakima
06905	FUNK WATER USERS ASSN	37	Act	B		4	10	Yakima
03385	GALINDO ASSOCIATION	37	Act	B		4	9	Yakima
27120	GAMACHE RANCHES INC	37	Act	B		3	8	Yakima
05180	GARRISON, BILL WATER SYSTEM	37	Act	B		2	6	Yakima
27535	Getsch Subdivision #2	37	Act	B		13	22	Yakima
07806	GILL, R. WATER SYSTEM	37	Act	B		3	10	Yakima
05911	GILMAN WATER USERS ASSN	37	Act	B		3	12	Yakima
29144	GLASPEY 10	37	Act	B		4	8	Yakima
01605	GONZALEZ WATER SYSTEM	37	Act	B		1	0	Yakima
51314	GOOD SHEPHERD PENTECOSTAL HOLINESS	37	Act	B		2	5	Yakima
02707	GORDON, KENT WATER SYSTEM	37	Act	B		2	4	Yakima
BP270	GRANDVIEW SUBSTATION	37	Act	B		1	0	Yakima
29357	GREEN ACRES MOBILE PARK	37	Act	B		10	19	Yakima
03511	GROEN, JOHN WATER SYSTEM	37	Act	B		2	6	Yakima
05094	GROMORE WATER USERS ASSOCIATION	37	Act	B		8	16	Yakima
07374	GUERRERO, SANTOS	37	Act	B		2	6	Yakima
11183	HAAK II INVESTMENTS	37	Act	B		4	10	Yakima
03479	HANKS H2O WATER SYSTEM	37	Act	B		2	9	Yakima
04983	HANSEN, JACQUETTA WATER SYSTEM	37	Act	B		2	5	Yakima
01922	HARD ROCK WATER ASSOCIATION	37	Act	B		2	6	Yakima
AA353	HARRISON WATER USERS ASSN	37	Act	B		3	6	Yakima
04001	HEDDEN WELL	37	Act	B		8	15	Yakima
06458	HENNESSY HILL WATER USERS ASSN	37	Act	B		5	24	Yakima
32600	HI VALLEY WATER	37	Act	B		4	10	Yakima
03478	HIGHLAND ROAD WATER SYSTEM	37	Act	B		3	10	Yakima
06959	HIGHVIEW WATER SYSTEM	37	Act	B		2	10	Yakima
41914	HILLTOP WATER ASSN	37	Act	B		9	24	Yakima
04989	HILLVIEW H2O SYSTEM	37	Act	B		5	12	Yakima
04150	HITCHCOCK WELL	37	Act	B		2	3	Yakima
00501	HOWIE WELL	37	Act	B		2	5	Yakima
04014	HUMBARD WELL	37	Act	B		2	5	Yakima
03846	HYATT, LELAND WELL	37	Act	B		2	2	Yakima
56117	INDEPENDENCE DAIRY	37	Act	B		3	8	Yakima
18117	J & R APTS	37	Act	B		5	13	Yakima
04129	J-J WATER SYSTEM	37	Act	B		2	5	Yakima
36463	JACKS PLACE	37	Act	B		1	0	Yakima
05099	JACKSON WATER SYSTEM	37	Act	B		2	3	Yakima
00868	JERRYS MEATS	37	Act	B		1	3	Yakima
02680	JESS ANTUNES APTS	37	Act	B		2	5	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01006	Jessica Lane Water Users Assn	37	Act	B		6	16	Yakima
07306	JLR WATER SYSTEM	37	Act	B		2	10	Yakima
84285	JOHN STEWART MOBILE PARK	37	Act	B		7	18	Yakima
36846	JOHNSON MECHANICAL CORP	37	Act	B		10		Yakima
36845	JOHNSON MOBILE COURT	37	Act	B		4	10	Yakima
36900	JOHNSON WELL	37	Act	B		4	10	Yakima
AA690	JONES JUNIOR	37	Act	B		2	6	Yakima
04527	K & K WATER SYSTEM	37	Act	B		2	5	Yakima
05306	K & K WATER WELL	37	Act	B		3	10	Yakima
00404	KABLE WATER SYSTEM	37	Act	B		3	10	Yakima
00520	KAMIAKIN ARCHERY CLUB	37	Act	B		10		Yakima
03831	KATHY WATER SYSTEM	37	Act	B		2	8	Yakima
06008	KELLOUGH ESTATE SYSTEM #1	37	Act	B		4	12	Yakima
06007	KELLOUGH ESTATE SYSTEM #2	37	Act	B		2	12	Yakima
38425	KEVESHAN ACRES	37	Act	B		3	8	Yakima
04759	KING S HILL #1	37	Act	B		2	10	Yakima
04525	KIRK RIVERSIDE WATER SYSTEM	37	Act	B		6	15	Yakima
05658	KNOTTS SUBDIVISION	37	Act	B		4	12	Yakima
05313	KOBOSKI WATER USERS	37	Act	B		2	8	Yakima
43120	KOZY KORNER GROCERY	37	Act	B		3	8	Yakima
04598	KRUSE PLACE WELL	37	Act	B		2	9	Yakima
46440	LAZY ACRE WATER SYSTEM	37	Act	B		6	15	Yakima
46462	LAZY R TAVERN	37	Act	B		1	3	Yakima
04017	LEISURE LANE COMMUNITY WELL	37	Act	B		4	23	Yakima
03646	LEMONS, RENE WATER SYSTEM	37	Act	B		2	3	Yakima
46935	LEUNING RANCH WATER	37	Act	B		3	8	Yakima
18593	LEYENDEKKER CAMP 7	37	Act	B		9	3	Yakima
AA249	LEYENDEKKER CAMP 8	37	Act	B		80		Yakima
AA250	LEYENDEKKER CAMP 9	37	Act	B		80		Yakima
47160	LIBERTY MARKET	37	Act	B		2	5	Yakima
47379	LINDSEY S LOCKERS	37	Act	B		2	5	Yakima
47410	LINTON WELL	37	Act	B		3	8	Yakima
04076	LIONS MARKET	37	Act	B		2	5	Yakima
48260	LOOP WELL	37	Act	B		6	18	Yakima
07532	LOVELACE WATER USERS ASSN	37	Act	B		4	8	Yakima
99088	LOWER NACHES COMMUNITY PARK	37	Act	B		10		Yakima
49220	LYNN ADDITION WATER SYSTEM INC	37	Act	B		13	22	Yakima
06912	M AND S SIM WATER SYSTEM	37	Act	B		3	10	Yakima
08279	MAID O CLOVER CORP	37	Act	B		20		Yakima
08179	MAIN WATER USERS ASSOCIATION	37	Act	B		3	12	Yakima
04243	MALZAHN WATER SYSTEM	37	Act	B		5	13	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
51120	MAPLE GROVE APTS	37	Act	B		5	18	Yakima
04089	MARBLE WELL	37	Act	B		2	5	Yakima
04140	MARBLE WELL	37	Act	B		3	10	Yakima
51600	MAREKS JIM DANDY MKT	37	Act	B		1	3	Yakima
04919	MARIPOSA WATER SYSTEM	37	Act	B		4	10	Yakima
02441	MARQUEZ MANUFACTURING LTD	37	Act	B		3	5	Yakima
51876	MARTIN MOTEL	37	Act	B		9	23	Yakima
71648	MARY S RANCH WELL	37	Act	B		10		Yakima
04102	MATTERHORN MEATS	37	Act	B		2	3	Yakima
04441	MC CRORY-OFTEDAL	37	Act	B		2	5	Yakima
51414	MC CULLOUGH ROAD WATER COMPANY	37	Act	B		3	12	Yakima
04149	MC DONALD WELL	37	Act	B		5	7	Yakima
02583	McBride Water System	37	Act	B		4	20	Yakima
02561	MCGRATH WATER SYSTEM	37	Act	B		2	7	Yakima
56304	MEADOWLARK WATER SYSTEM	37	Act	B		2	6	Yakima
06692	MEADOWS WATER USERS ASSN	37	Act	B		3	8	Yakima
53500	MENGARELLI PACK	37	Act	B		2	5	Yakima
02674	MERYL WATER SYSTEM	37	Act	B		2	7	Yakima
54545	MIERAS WELL	37	Act	B		3	6	Yakima
02688	MINER COMMUNITY WELL	37	Act	B		2	4	Yakima
01657	MINER COURT WATER SYSTEM	37	Act	B		2	2	Yakima
03432	MISSIONARY WELL	37	Act	B		3	15	Yakima
04117	MIZE ESTATES #1	37	Act	B		2	15	Yakima
04116	MIZE ESTATES #2	37	Act	B		2	15	Yakima
04114	MIZE ESTATES #3	37	Act	B		2	15	Yakima
08173	MONTGOMERY-HOCKER COMMUNITY WELL	37	Act	B		7	18	Yakima
04138	MOORE WATER SYSTEM	37	Act	B		3	8	Yakima
56235	MORTON & SONS WELL	37	Act	B		30		Yakima
03371	MOTHER LODE WATER SYSTEM	37	Act	B		4	8	Yakima
57198	MOUNTAINVIEW DOMESTIC WATER	37	Act	B		6	13	Yakima
BP410	MOXEE SUBSTATION	37	Act	B		10		Yakima
04694	MT ADAMS COUNTRY CLUB ESTATES	37	Act	B		10	24	Yakima
57674	MURRAY WELL	37	Act	B		2	5	Yakima
05730	NELSON #2 WATER SYSTEM	37	Act	B		4	6	Yakima
04113	NORTH CANYON WATER SYSTEM	37	Act	B		2	2	Yakima
61235	NORTH SIDE WATER CO	37	Act	B		7	15	Yakima
04622	NORTH TERRA VISTA	37	Act	B		5	13	Yakima
61950	NORTHWEST MANOR WATER COMPANY	37	Act	B		9	13	Yakima
63035	ODELL RANCH	37	Act	B		11	19	Yakima
08267	OLIVER WELL	37	Act	B		5	12	Yakima
AA846	Oord Dairy	37	Act	B		10		Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03648	OOSTERHOF WELL	37	Act	B		2	2	Yakima
04803	ORCHARD PARK H2O WATER SYSTEM	37	Act	B		2	2	Yakima
18236	ORIN DAYTON WATER USERS	37	Act	B		4	10	Yakima
02821	OSTER COMMUNITY WELL	37	Act	B		4	12	Yakima
65650	PAINTED ROCK COTTAGE COURT	37	Act	B		2	4	Yakima
65950	PANORAMA WATER ASSN	37	Act	B		6	15	Yakima
66420	PASS WATER ASSOCIATION	37	Act	B		5	13	Yakima
06375	PATRICK WATER SYSTEM	37	Act	B		2	12	Yakima
05651	PEACH TREESE WATER SYSTEM	37	Act	B		4	12	Yakima
AA031	PEREZ, JESUS WATER SYSTEM	37	Act	B		7	14	Yakima
AB126	Perham Loop #4	37	Act	B		4	16	Yakima
62265	PERRI WATER SYSTEM	37	Act	B		2	5	Yakima
01139	PLANTASIA WATER SYSTEM	37	Act	B		2	10	Yakima
05731	Postma Community Well Assn	37	Act	B		5	12	Yakima
04141	PRICKETT WELL	37	Act	B		2	5	Yakima
69925	PUNKIN CENTER	37	Act	B		3	8	Yakima
00751	QUICK WELL	37	Act	B		2	8	Yakima
AA854	R & R Water Association	37	Act	B		3	8	Yakima
04161	RADKE WELL #2	37	Act	B		4	10	Yakima
04154	RADKE WELL 1	37	Act	B		2	5	Yakima
70835	RAINIER HELICOPTERS INC	37	Act	B		1	3	Yakima
04514	RALCO #1	37	Act	B		3	12	Yakima
05416	RAMONA DAY WATER SYSTEM	37	Act	B		2	8	Yakima
71084	RAMOS WELL	37	Act	B		3	8	Yakima
71425	RAY RD WELL	37	Act	B		4	10	Yakima
71637	RED ROSE MOBILE HOME PARK	37	Act	B		7	23	Yakima
56737	REHOBOTH WELL	37	Act	B		2	5	Yakima
71744	REISS WELL	37	Act	B		2	8	Yakima
06913	REITAN WATER USERS ASSN	37	Act	B		3	10	Yakima
72107	REYES COMMUNITY WELL	37	Act	B		3	8	Yakima
06282	REYNOSO WELL	37	Act	B		2	16	Yakima
08178	RIBAIL WATER USERS ASSOCIATION	37	Act	B		3	10	Yakima
04165	RICHARTZ MOBILE PARK	37	Act	B		3	8	Yakima
02822	RICKEY S WATER	37	Act	B		2	4	Yakima
06418	RIVER S EDGE WELL 2	37	Act	B		2	10	Yakima
02698	ROCK RIDGE WATER SYSTEM	37	Act	B		5	14	Yakima
08399	ROCKY RIDGE	37	Act	B		4	16	Yakima
04183	ROGERS WELL	37	Act	B		2	8	Yakima
05088	ROLLING HILLS WATER SYSTEM	37	Act	B		4	16	Yakima
03363	ROSS-EBBESON WATER SYSTEM	37	Act	B		2	7	Yakima
04732	ROTTER COMMUNITY WELL	37	Act	B		3	4	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03637	ROUGK WELL	37	Act	B		4	8	Yakima
07866	ROUGK WELL #2	37	Act	B		6	12	Yakima
74745	ROZA WATER SERVICE CO	37	Act	B		5	13	Yakima
03713	RUBY WATER SYSTEM	37	Act	B		4	10	Yakima
56526	RUSSELL WELL, DON	37	Act	B		3	8	Yakima
03379	SALDANA, MARIO WATER SYSTEM	37	Act	B		2	10	Yakima
75615	SALUSKIN GRANGE	37	Act	B		1	3	Yakima
02789	SANCHEZ WATER SYSTEM	37	Act	B		2	5	Yakima
51919	SANDS WELL	37	Act	B		3	8	Yakima
32575	SANFORD HEWITT WELL	37	Act	B		2	5	Yakima
76440	SATUS RANCH	37	Act	B		4	0	Yakima
76631	SCHEMPER ADDITION WATER	37	Act	B		14	24	Yakima
03513	SCHILPEROORT, ELMER WATER SYSTEM	37	Act	B		2	4	Yakima
05181	SCHMIDT ORCHARDS INC.	37	Act	B		3	15	Yakima
05404	SCHNEIDER, TONY WATER SYSTEM	37	Act	B		3	9	Yakima
76734	SCHRODER MEATS	37	Act	B		2	5	Yakima
05922	SHARON VIEW WATER ASSOC.	37	Act	B		4	20	Yakima
00221	SHINN & SON INC	37	Act	B		9	20	Yakima
02840	SHIPLEY WELL	37	Act	B		2	9	Yakima
62491	SHOCKLEY COMMUNITY WELL	37	Act	B		6	13	Yakima
07177	SIEBOL WELL #2	37	Act	B		3	8	Yakima
05979	SIEGWORTH WELL	37	Act	B		2	5	Yakima
79345	SIMIAN MEARS WELL	37	Act	B		3	8	Yakima
79440	SISK WELL	37	Act	B		2	5	Yakima
FS858	SODA SPRINGS/NACHES RD	37	Act	B		8	0	Yakima
05992	SODEN WELL	37	Act	B		2	5	Yakima
AA573	SOLAR-ROZA	37	Act	B		4	8	Yakima
56078	ST. HILAIRE WATER CO	37	Act	B		2	5	Yakima
83683	STAR LITE DRIVE IN THEATRE	37	Act	B		1	3	Yakima
06358	STC Comm Well Assoc.	37	Act	B		4	6	Yakima
84280	STEWART CORNER	37	Act	B		3	8	Yakima
03556	STILWELL COMMUNITY WATER SYSTEM	37	Act	B		3	12	Yakima
AA255	STONE ROAD WATER USERS ASSN	37	Act	B		8	12	Yakima
02001	STOSH COMMUNITY WELL	37	Act	B		4	10	Yakima
85141	SUN VALLEY WATER SYSTEM	37	Act	B		12	2	Yakima
85213	SUNDQUIST COMMUNITY WELL	37	Act	B		3	8	Yakima
26036	SUNNYVALLEY GRANGE 870	37	Act	B		1	0	Yakima
02649	SUNRISE DEVELOPMENT #1	37	Act	B		2	6	Yakima
00284	SUNRISE WATER SYSTEM	37	Act	B		6	20	Yakima
03281	SUTTON WELL	37	Act	B		6	9	Yakima
05058	SWALLEY #1 WATER SYSTEM	37	Act	B		2	8	Yakima



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
05179	SWALLEY #2	37	Act	B		2	8	Yakima
06259	SWALLEY #3	37	Act	B		2	4	Yakima
06260	SWALLEY #4	37	Act	B		2	8	Yakima
86587	SWAN VALLEY WATER USERS ASSOCIATION	37	Act	B		4	10	Yakima
04760	T&R WATER RESERVE	37	Act	B		2	6	Yakima
87141	TAMARA PLACE WATER ASSN	37	Act	B		5	18	Yakima
87657	TEXACO WELL #1	37	Act	B		1	3	Yakima
00462	THALHEIMER WATER ASSOCIATION	37	Act	B		2	5	Yakima
86640	THE VILLAGE SHOPPE	37	Act	B		2	1	Yakima
07311	THORP ROAD WATER USERS ASSN	37	Act	B		4	10	Yakima
88815	TOP HI DRIVE IN SNACK BAR	37	Act	B		1	3	Yakima
88825	TOP MART #2	37	Act	B		2	5	Yakima
28351	TORRES, SALVADOR WATER SYSTEM	37	Act	B		7	18	Yakima
56104	TRAILER INN WATER SYSTEM	37	Act	B		2	5	Yakima
04248	TRAILS END LANE WELL	37	Act	B		2	15	Yakima
07934	TREE FARM WATER SYSTEM	37	Act	B		2	6	Yakima
NR024	TREE PHONES CAMPGROUND	37	Act	B		1	0	Yakima
04522	TRENEER ADDITION WATER CO.	37	Act	B		9	20	Yakima
01452	TRENEER WATER COMPANY	37	Act	B		4	14	Yakima
00001	TRIPLE R RENTALS	37	Act	B		1	0	Yakima
17623	Triple R Rentals	37	Act	B		1	10	Yakima
07603	TUCKER CELLARS WINERY	37	Act	B		2	1	Yakima
03510	TUCKNIES, GREG WTR. SYS.	37	Act	B		2	6	Yakima
07149	TURNBULL WATER SYSTEM	37	Act	B		4	12	Yakima
06223	TWIN WELLS	37	Act	B		3	20	Yakima
90460	U S GRAPE INC	37	Act	B		11	20	Yakima
90240	UNION CONCRETE PIPE CO	37	Act	B		1	3	Yakima
04098	VALENCIA WATER SYSTEM	37	Act	B		3	10	Yakima
90960	VALLEY ADDITION WATER	37	Act	B		5	12	Yakima
01066	VAN NIEUWENHUIZEN WELL	37	Act	B		3	15	Yakima
91170	VANBELLE WELL	37	Act	B		2	5	Yakima
05059	VELASCO WELL	37	Act	B		4	9	Yakima
00140	VESTAD WATER SYSTEM	37	Act	B		2	5	Yakima
91941	VISTA POULTRY	37	Act	B		3	5	Yakima
04303	VON HELLSTRUM INN	37	Act	B		1	0	Yakima
92064	WAGON WHEEL INN	37	Act	B		4	10	Yakima
12285	WALKER WELL	37	Act	B		4	10	Yakima
92790	WANITA GRANGE #270	37	Act	B		2	5	Yakima
04999	WARE ROAD WATER SYSTEM	37	Act	B		2	4	Yakima
93560	WATER WHEEL MOBILE PARK	37	Act	B		3	15	Yakima
32890	WATKINS WELL	37	Act	B		9	23	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07002	WATUMA WATER SYSTEM	37	Act	B		2	10	Yakima
06084	WAYNE WATER SYSTEM	37	Act	B		2	4	Yakima
03903	WAYNES WATER WORLD	37	Act	B		5	15	Yakima
04095	WEBSTER ROAD WATER SYSTEM	37	Act	B		2	10	Yakima
93987	WEED MEMORIAL WATER USERS	37	Act	B		7	10	Yakima
02132	WEINBENDER WATER SYSTEM	37	Act	B		2	10	Yakima
AA541	WEST SUMMITVIEW EXT	37	Act	B		2	0	Yakima
04988	WHITE ROAD WATER SYSTEM	37	Act	B		2	8	Yakima
96345	WHITE SWAN FOREST PRODUCTS	37	Act	B		6	13	Yakima
AA032	WHITMAN MOBILE PARK	37	Act	B		5	15	Yakima
02438	WILKINSON WATER SYSTEM	37	Act	B		2	2	Yakima
97433	WILSON WELL ASSOCIATION	37	Act	B		6	15	Yakima
62671	WINDY HILL WATER SYSTEM	37	Act	B		2	5	Yakima
97725	WINTERS WELL	37	Act	B		2	5	Yakima
97900	WISEACRES WATER USERS ASSN	37	Act	B		9	23	Yakima
06459	WOLFE WATER SYSTEM	37	Act	B		2	2	Yakima
98155	WOODIN ROAD WATER ASSOC	37	Act	B		4	10	Yakima
08412	WOODIN SYSTEM ONE	37	Act	B		3	12	Yakima
98610	WRIGHT WATER	37	Act	B		2	5	Yakima
HD130	WSDOT COTTONWOOD SMF	37	Act	B		3	6	Yakima
33584	WYCKOFF FARMS INC VINEYARD 3	37	Act	B		3	3	Yakima
33586	WYCKOFF FARMS VINEYARD 6	37	Act	B		3	4	Yakima
98830	Y V C AGRI-SCIENCE	37	Act	B		1	3	Yakima
AA484	YAK CO - FAIRWAY ESTATES	37	Act	B		4	12	Yakima
06359	YAK CO - MEADOWBROOK ROAD	37	Act	B		15	5	Yakima
05413	YAK CO - STAR CREST	37	Act	B		3	9	Yakima
08096	YAK CO - STEIN LOWER	37	Act	B		4	9	Yakima
08157	YAK CO - STEIN UPPER	37	Act	B		2	6	Yakima
99090	YAK CO - TERRACE HEIGHTS LANDFILL	37	Act	B		4	0	Yakima
06251	YAK CO - WENDT ROAD WATER SYSTEM	37	Act	B		1	3	Yakima
04508	YAK.VALLEY PARTNER HABITAT HUMANITY	37	Act	B		1	0	Yakima
99085	YAKIMA COUNTY ALCOHOL DETOX	37	Act	B		1	3	Yakima
99128	YAKIMA VALLEY CANAL CO	37	Act	B		8	13	Yakima
99130	YAKIMA VALLEY SPRAY SERVICE	37	Act	B		1	0	Yakima
04526	YOUNG ALEXANDER ROAD WATER SYSTEM	37	Act	B		6	15	Yakima
01697	YOUNG GREY POPLAR WELL	37	Act	B		2	5	Yakima
AA462	YSAE #1	37	Act	B		3	20	Yakima
01481	Z-T WATER SYSTEM	37	Act	B		2	5	Yakima
04602	Zaragosa Water	37	Act	B		3	8	Yakima
99760	ZIEGLER BLDG CENTER YAKIMA	37	Act	B		2	5	Yakima
05688	ZILLAH OASIS	37	Act	B		2	8	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03772	A & W WATER WELL	38	Act	B		4	8	Yakima
01793	ADAMS VIEW WATER SYSTEM	38	Act	B		4	12	Yakima
AB310	Agape Mountain Bed & Breakfast	38	Act	B		1	2	Yakima
03223	ALBANO COMMUNITY WELL	38	Act	B		2	8	Yakima
FS008	AMERICAN FORKS CAMPGROUND	38	Act	B		10		Yakima
01805	ARMS WATER SYSTEM	38	Act	B		2	6	Yakima
03948	BARRETT ROAD WATER ASSOCIATION	38	Act	B		5	8	Yakima
04516	BASALT BUTTE WELL	38	Act	B		4	8	Yakima
04377	BECKON RIDGE #2	38	Act	B		5	20	Yakima
00840	BERNDT WATER SYSTEM	38	Act	B		3	10	Yakima
AA329	BOOTJACK WATER ASSOCIATION	38	Act	B		9	5	Yakima
06971	BRANDT, JEANNE WATER SYSTEM	38	Act	B		2	5	Yakima
08780	BROOKS MEATS	38	Act	B		1	3	Yakima
03734	BRUCE ALLEN ORCHARDS	38	Act	B		3	4	Yakima
03208	BRUTON WELL	38	Act	B		2	4	Yakima
08923	BRYANT, W.C. WELL	38	Act	B		5	13	Yakima
05060	BUCKEYE WATER	38	Act	B		6	16	Yakima
07412	BUMPING DAM SPRING - USBR	38	Act	B		10		Yakima
04378	C-J SYSTEM I	38	Act	B		5	12	Yakima
98840	CAMP JUBILEE	38	Act	B		60		Yakima
AA089	CAMP ZARAHEMLA - LDS CHURCH	38	Act	B		15	2	Yakima
07148	CANTERBROOK WATER SYSTEM	38	Act	B		2	4	Yakima
07439	CARLSON, GORDON	38	Act	B		4	3	Yakima
FS090	CEDAR SPRINGS CAMPGROUND	38	Act	B		10		Yakima
04805	CHARLIE WATER WELL	38	Act	B		2	8	Yakima
03717	CHAROLETTE WELL	38	Act	B		4	10	Yakima
FS668	CHINOOK PASS WORK CENTER	38	Act	B		7	10	Yakima
01838	CLARK S EMPIRE FOODS	38	Act	B		2	3	Yakima
13343	CLARKS WATER ASSN	38	Act	B		10	8	Yakima
03042	CLEMONS VIEW PARK	38	Act	B		10		Yakima
NR200	CLOVER FLATS CAMPGROUND	38	Act	B		10		Yakima
08327	CORNELLA, ANNETTE M.	38	Act	B		1	3	Yakima
FS140	COTTONWOOD CAMPGROUND	38	Act	B		10		Yakima
FS145	COUGAR FLAT	38	Act	B		10		Yakima
01897	COZY CAT WATER SYSTEM	38	Act	B		2	6	Yakima
AB050	Crawford Corners Water Association	38	Act	B		7	18	Yakima
08084	CRESTVIEW HOMEOWNERS ASSN	38	Act	B		2	10	Yakima
00081	DARNALL WATER SYSTEM	38	Act	B		2	5	Yakima
04832	DOUBLE K WELL	38	Act	B		3	12	Yakima
04133	DOW WATER ASSOCIATION	38	Act	B		2	6	Yakima
05044	EAST PAMONA WATER ASSOCIATION	38	Act	B		2	10	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
HD185	EAST SELAH DIV OFF	38	Act	B		1	0	Yakima
22333	ECHO GLENN WATER	38	Act	B		7	14	Yakima
22508	EDMONDSON PACKING	38	Act	B		1	3	Yakima
02181	FAR EAST WATER SYSTEM	38	Act	B		3	8	Yakima
26033	FORNEY ORCHARDS INC	38	Act	B		4	10	Yakima
04997	GALAXY HEIGHTS WATER SYSTEM	38	Act	B		2	16	Yakima
27155	GAME RIDGE MOTEL	38	Act	B		5	3	Yakima
05978	GARY KAREN II	38	Act	B		8	16	Yakima
03750	GARY KAREN WELL	38	Act	B		6	15	Yakima
27835	GLEED TAVERN	38	Act	B		1	3	Yakima
28376	GOLD RUN CAFE	38	Act	B		2	5	Yakima
02086	GUENTHER WELL	38	Act	B		2	4	Yakima
FS110	HALFWAY FLAT CAMPGROUND	38	Act	B		1	0	Yakima
04412	Hawk Ridge Homeowner Assn	38	Act	B		6	20	Yakima
FS358	HELLS CROSSING CAMPGROUND	38	Act	B		1	0	Yakima
01533	HERMAN WATER SYSTEM	38	Act	B		2	5	Yakima
01523	HEYSMAN RANCH I	38	Act	B		7	18	Yakima
04137	HOME WELL	38	Act	B		7	20	Yakima
FS398	INDIAN FLAT	38	Act	B		1	0	Yakima
01659	J & R SYSTEM #1	38	Act	B		4	12	Yakima
00855	JEFFERSON LOGGING	38	Act	B		2	5	Yakima
36839	JOHNSON/KNIPPER	38	Act	B		2	5	Yakima
34777	KAIL HILL WATER ASSN	38	Act	B		6	18	Yakima
07399	KELLER FRUIT & COLD STORAGE	38	Act	B		2	0	Yakima
23876	KEZELE WATER SYSTEM	38	Act	B		9	23	Yakima
04147	KNUTSON-NYBERG WATER SYSTEM	38	Act	B		2	8	Yakima
04820	KODI DOMESTIC WATER SYSTEM	38	Act	B		8	16	Yakima
47475	LITTLE BEAVER LODGE	38	Act	B		7	7	Yakima
FS550	LITTLE NACHES CG/NACHES RD	38	Act	B		1	0	Yakima
01658	LITTLE STORE WATER SYSTEM	38	Act	B		2	1	Yakima
02147	LOOKOUT RANCHES HOMEOWNERS ASSN	38	Act	B		3	8	Yakima
48287	LOST CREEK VILLAGE	38	Act	B		11	2	Yakima
FS035	LOWER BUMPING LAKE CAMPGROUND	38	Act	B		1	0	Yakima
04804	LUNZMAN, SUZANNE WATER SYSTEM	38	Act	B		4	10	Yakima
00187	MACS WATER SYSTEM	38	Act	B		3	9	Yakima
02120	MAJNARICH WELL	38	Act	B		3	9	Yakima
51225	MAPLE PARK ASSOCIATION	38	Act	B		8	13	Yakima
07410	MARTINEZ LIVESTOCK INC	38	Act	B		1	0	Yakima
56306	MAZIE WATER SYSTEM	38	Act	B		2	5	Yakima
52742	MC LAUGHLIN RD WELL	38	Act	B		4	10	Yakima
06254	McCracken Well Association	38	Act	B		3	10	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
52475	MCGRUFF WELL ASSOCIATION	38	Act	B		9	23	Yakima
01583	MONSON-BARMORE WELL	38	Act	B		2	6	Yakima
06822	MORRIS WATER SYSTEM	38	Act	B		2	10	Yakima
06871	MORTIMER WATER USERS ASSN	38	Act	B		3	8	Yakima
03367	Palomino Subdivision Association	38	Act	B		4	13	Yakima
04099	PEACE RIDGE WATER SYSTEM	38	Act	B		2	9	Yakima
07004	PERHAM ESTATES WELL 1	38	Act	B		2	2	Yakima
07005	PERHAM ESTATES WELL 2	38	Act	B		4	11	Yakima
07687	PERHAM ESTATES WELL 3	38	Act	B		2	10	Yakima
FS740	PLEASANT VALLEY CG/NACHES RD	38	Act	B		1	0	Yakima
01673	PROSPECT WAY WATER SYSTEM	38	Act	B		2	4	Yakima
05062	RATH WATER SYSTEM	38	Act	B		3	12	Yakima
03517	RAY/GLEASON WATER SYSTEM	38	Act	B		2	7	Yakima
07576	Reflection Valley Ranch	38	Act	B		8	22	Yakima
HD605	RIMROCK MAINTENANCE SITE	38	Act	B		1	0	Yakima
03938	RIMROCK NORTH WATER ASSOCIATION	38	Act	B		18	15	Yakima
59535	RIVERSIDE COUNTRY CHURCH	38	Act	B		2	3	Yakima
06897	ROBERT, MARK WATER SYSTEM	38	Act	B		2	3	Yakima
08029	RODMAN COMMUNITY WELL	38	Act	B		2	5	Yakima
73687	RODMAN WELL	38	Act	B		3	8	Yakima
07089	ROSE WATER SYSTEM	38	Act	B		2	12	Yakima
01525	SAGEBRUSH COMMUNITY WELL	38	Act	B		2	4	Yakima
41973	SEALANDER WELL ASSOCIATION	38	Act	B		4	13	Yakima
00774	SEdge RANCH WATER SYSTEM	38	Act	B		2	6	Yakima
00465	SHANNON ROAD WATER SYSTEM	38	Act	B		2	2	Yakima
04194	SHEARER ORCHARDS	38	Act	B		3	8	Yakima
03487	SHINN WELL	38	Act	B		2	8	Yakima
06005	SOLE B WELL	38	Act	B		2	5	Yakima
03732	SPORTSMAN CAFE & LOUNGE	38	Act	B		1	0	Yakima
00825	SPRING CREEK ESTATES WATER SYSTEM	38	Act	B		9	21	Yakima
05916	STEVENSON ESTATES	38	Act	B		3	12	Yakima
AA135	STONE PLACE H2O USERS	38	Act	B		4	8	Yakima
84621	STRAUSZ & SONS	38	Act	B		1	1	Yakima
AA739	Sugarman Water Assn	38	Act	B		4	15	Yakima
02046	TILLET WELL WTR. SYS.	38	Act	B		2	5	Yakima
88864	TOTAL HEALTH FOUNDATION	38	Act	B		1	3	Yakima
04994	TREPANIER MOBILE HOME ESTATES #1	38	Act	B		8	20	Yakima
04865	TREPANIER MOBILE HOME ESTATES #2	38	Act	B		8	20	Yakima
04866	TREPANIER MOBILE HOME ESTATES #3	38	Act	B		8	20	Yakima
04846	TRIPLE M WATER SYSTEM	38	Act	B		3	9	Yakima
90972	VALLEY EVAPORATING	38	Act	B		1	3	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01889	VALLEY WEST HOUSING WATER SYSTEM	38	Act	B		8	23	Yakima
91145	VAN CLEAVE FRUIT	38	Act	B		3	8	Yakima
06732	VIEW RIDGE WATER SYSTEM	38	Act	B		3	8	Yakima
03485	WATER WORKS	38	Act	B		2	10	Yakima
02378	WEBB SPRING	38	Act	B		7	4	Yakima
03431	WEBER WELL	38	Act	B		2	8	Yakima
AA413	West Russell Creek Water Assn	38	Act	B		6	0	Yakima
07006	WETTON WATER USERS ASSN	38	Act	B		2	4	Yakima
96179	WHITE PASS MOTEL	38	Act	B		8	20	Yakima
FS985	WILLOWS	38	Act	B		1	0	Yakima
00109	WILSON S WELL	38	Act	B		2	5	Yakima
06244	WINDY HILL COMMUNITY WATER SYSTEM	38	Act	B		4	12	Yakima
FS990	WINDY POINT	38	Act	B		1	0	Yakima
00461	WOELK WATER SYSTEM	38	Act	B		2	5	Yakima
04134	WOLFKILL WELL	38	Act	B		2	7	Yakima
98837	YMCA CAMP DUDLEY	38	Act	B		8	3	Yakima
AA043	RUBIN WATER SYSTEM	39	Act	B		4	10	Chelan
04072	ALLER WATER SYSTEM	39	Act	B		2	3	Kittitas
06322	AQUA CLUB	39	Act	B		12	8	Kittitas
07471	AUDO, JOSEPH WATER SYSTEM	39	Act	B		2	3	Kittitas
05588	BAKER/CLAYBURN WATER SYSTEM	39	Act	B		2	5	Kittitas
03983	BAKERS RESORT	39	Act	B		20	0	Kittitas
03941	BARKER SHORT PLAT	39	Act	B		2	5	Kittitas
42408	BEGALKA/RAINIER-CENTRUM PROPERTIES	39	Act	B		3	8	Kittitas
12970	BETHEL GOSPEL CHURCH	39	Act	B		2	3	Kittitas
07543	BMW WATER SYSTEM	39	Act	B		4	10	Kittitas
05033	BRETHREN FRONTIER SCHOOL	39	Act	B		1	0	Kittitas
06065	BRIST, HENRY WATER SYSTEM	39	Act	B		1	0	Kittitas
44601	BROWN, CHARLES V.	39	Act	B		5	15	Kittitas
HD070	BULLFROG MAINTENANCE SITE	39	Act	B		3	0	Kittitas
04634	BURNAM, NORMA CAMPGROUND	39	Act	B		3	4	Kittitas
AB089	Carpine Water System	39	Act	B		6	18	Kittitas
AA044	CASCADE VIEW ESTATES #1	39	Act	B		13	24	Kittitas
AA045	CASCADE VIEW ESTATES #2	39	Act	B		13	24	Kittitas
AA046	CASCADE VIEW ESTATES #3	39	Act	B		10	24	Kittitas
06581	CASCADE VIEW ESTATES #4	39	Act	B		12	24	Kittitas
46060	CENTRAL MAIN	39	Act	B		5	13	Kittitas
22942	CENTRAL MAIN FIRE PROTECTION DIST 2	39	Act	B		3	2	Kittitas
06262	CHANTERELLE 1	39	Act	B		6	18	Kittitas
06263	CHANTERELLE 2	39	Act	B		6	18	Kittitas
06264	CHANTERELLE 3	39	Act	B		8	20	Kittitas



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AA888	Chapel dewitt.com	39	Act	B		1	1	Kittitas
87800	CHARLTON-KIMBALL WELL	39	Act	B		2	1	Kittitas
05854	CHELAN LANE WATER SYSTEM	39	Act	B		2	6	Kittitas
06261	CLE ELUM AIRPORT ESTATES	39	Act	B		8	20	Kittitas
07408	CLE ELUM DAM GATEHOUSE - USBR	39	Act	B		1	0	Kittitas
07409	CLE ELUM DAM RESIDENCE - USBR	39	Act	B		1	0	Kittitas
08230	CLEAR WATER SYSTEM	39	Act	B		4	10	Kittitas
03526	CLERF WATER SYSTEM	39	Act	B		3	10	Kittitas
AB328	Colfax Water System #1	39	Act	B		6	10	Kittitas
04415	CORY WELL	39	Act	B		2	4	Kittitas
06388	COVE LAKE WATER SYSTEM 1	39	Act	B		4	16	Kittitas
06389	COVE LAKE WATER SYSTEM 2	39	Act	B		4	16	Kittitas
04557	COZY ACRES NORTH	39	Act	B		14	23	Kittitas
AB499	Cummings Water System	39	Act	B		7	20	Kittitas
19213	DIAMOND RING RANCH	39	Act	B		9	23	Kittitas
08440	DOMERIE BAY #2	39	Act	B		6	18	Kittitas
07099	DPK WATER SYSTEM	39	Act	B		4	0	Kittitas
07438	DW #2 SUBDIVISION	39	Act	B		6	15	Kittitas
06283	DW SUBDIVISION 1	39	Act	B		6	15	Kittitas
05746	EASON WATER USERS	39	Act	B		3	15	Kittitas
06709	EASON, KURT WATER SYSTEM	39	Act	B		2	12	Kittitas
FS105	EAST PORTAL REST AREA HP	39	Act	B		1	0	Kittitas
29277	EAST SIDE ACRES	39	Act	B		7	20	Kittitas
AA359	ELK HEIGHTS WATER ASSOCIATION	39	Act	B		2	7	Kittitas
BP240	ELLENSBURG SUBSTATION	39	Act	B		1	0	Kittitas
04221	ELLIOTT WELL	39	Act	B		2	4	Kittitas
07455	ESSEX WATER SYSTEM	39	Act	B		4	12	Kittitas
AB019	ESSEX WATER SYSTEM II	39	Act	B		4	10	Kittitas
24697	FACKLER WELL	39	Act	B		3	10	Kittitas
08434	FEEDCOM ENTERPRISES INC	39	Act	B		1	0	Kittitas
06899	FLETCHER, JAMES WATER SYSTEM	39	Act	B		3	8	Kittitas
25728	FLYING HORSESHOE GUEST RANCH	39	Act	B		3	3	Kittitas
AA907	Flying Horseshoe Log Cabin	39	Act	B		1	0	Kittitas
AA478	Fowler Ridge Water Company	39	Act	B		9	24	Kittitas
AB447	Gehrman Short Plat	39	Act	B		4	1	Kittitas
07305	GH CONSTRUCTION	39	Act	B		6	15	Kittitas
06288	GOAT PEAK WATER SYSTEM	39	Act	B		3	8	Kittitas
AA670	GRANITE CREEK RANCHES	39	Act	B		2	6	Kittitas
07920	GRANT WATER SYSTEM	39	Act	B		4	12	Kittitas
06255	GRASSLANDS VILLAGE WATER SYSTEM	39	Act	B		8	23	Kittitas
08441	GREEN CROW #1	39	Act	B		6	18	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
05087	H & D WATER SYSTEM	39	Act	B		3	18	Kittitas
AA391	Hart Ranch	39	Act	B		4	4	Kittitas
07668	HART WATER SYSTEM #2	39	Act	B		2	5	Kittitas
06258	HEDRICK DUPLEX WATER SYSTEM	39	Act	B		2	10	Kittitas
03676	HENDERSON, LE MOYNE WATER SYSTEM	39	Act	B		6	18	Kittitas
08146	HENDRICKSON SHORT PLAT	39	Act	B		3	8	Kittitas
AB115	Hidden Valley Meadow	39	Act	B		12	35	Kittitas
42369	HIGH COUNTRY OUTFITTERS/CAMP WAHOO,	39	Act	B		1	0	Kittitas
AB117	High Ranch Well #1	39	Act	B		3	9	Kittitas
AB030	High Valley Land No. 1	39	Act	B		8	20	Kittitas
AB032	High Valley Land No. 2	39	Act	B		9	23	Kittitas
02266	HINER WATER SYSTEM	39	Act	B		2	3	Kittitas
34881	HOCTOR-MCPHERSON	39	Act	B		2	5	Kittitas
04560	HOWARDS END E-1 WATER SYSTEM	39	Act	B		2	2	Kittitas
AA571	HUSKER-BUCKEYE WATER SYSTEM	39	Act	B		7	21	Kittitas
07541	HYATT, LAWRENCE R. WATER SYSTEM	39	Act	B		4	10	Kittitas
04312	INSTITUTE OF NORTHWEST PASSAGES	39	Act	B		6	2	Kittitas
03922	JOHNSON-ADAMS WATER SYSTEM	39	Act	B		2	5	Kittitas
AA120	JONES WATERWORKS	39	Act	B		4	12	Kittitas
07405	KACHESS DAM - USBR	39	Act	B		1	0	Kittitas
37610	KACHESS LODGE	39	Act	B		4	2	Kittitas
37585	KAMIAKIN WATER ASSN	39	Act	B		9	18	Kittitas
07407	KEECHELUS DAM - USBR	39	Act	B		1	0	Kittitas
AB354	Keegans Corner	39	Act	B		6	15	Kittitas
06548	KIJUGO WATER SYSTEM	39	Act	B		2	6	Kittitas
AA171	KITTITAS SERVICE CENTER PSE	39	Act	B		1	0	Kittitas
07566	KITTITAS VALLEY MONTESSORI	39	Act	B		1	0	Kittitas
AA128	KITZ SHORT PLAT WATER SYSTEM	39	Act	B		4	12	Kittitas
02204	KYLLO SHORT PLAT	39	Act	B		4	12	Kittitas
02259	LAKE EASTON #1	39	Act	B		6	15	Kittitas
02260	LAKE EASTON #2	39	Act	B		6	15	Kittitas
02261	LAKE EASTON #3	39	Act	B		6	15	Kittitas
02262	LAKE EASTON #4	39	Act	B		6	15	Kittitas
AA196	LAKE EASTON ESTATES #6	39	Act	B		6	12	Kittitas
AA197	LAKE EASTON ESTATES #7	39	Act	B		6	12	Kittitas
AA198	LAKE EASTON ESTATES #8	39	Act	B		6	12	Kittitas
AA195	LAKE EASTON ESTATES #9	39	Act	B		6	12	Kittitas
06744	LAKE EASTON ESTATES LOT 44	39	Act	B		6	12	Kittitas
46287	LAUREL SPRINGS	39	Act	B		3	8	Kittitas
FS530	LIBERTY WORK CENTER/CLE ELUM RD	39	Act	B		2	4	Kittitas
AB041	Little Creek	39	Act	B		4	16	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03574	LOOKOUT MOUNTAIN ASSOCIATION	39	Act	B		10	23	Kittitas
08077	LOTS A1 A2 A3 WATER SYSTEM	39	Act	B		3	8	Kittitas
04529	MANNING-RIVITT WATER SYSTEM	39	Act	B		2	2	Kittitas
03904	MASTIN, DAVID J. WATER SYSTEM	39	Act	B		2	3	Kittitas
08224	MATHEWS ROAD WATER SYSTEM	39	Act	B		3	10	Kittitas
05648	MC BRIDE WATER SYSTEM	39	Act	B		2	5	Kittitas
05399	MC KENNA WATER SYSTEM	39	Act	B		2	2	Kittitas
06443	MCGINNIS HAWK HARTMAN WATER SYSTEM	39	Act	B		3	6	Kittitas
05361	MISSION VIEW	39	Act	B		6	10	Kittitas
08258	MJB SHORT PLAT	39	Act	B		4	4	Kittitas
07798	MONTGOMERY SHORT PLAT HOA	39	Act	B		4	10	Kittitas
AB326	Mountain Ridge	39	Act	B		3	6	Kittitas
AB410	Naneum View	39	Act	B		12	1	Kittitas
AA302	NIELSEN, NIEL WELL	39	Act	B		2	0	Kittitas
AB124	Oak Tree Estates	39	Act	B		6	24	Kittitas
05486	OLD FAITHFUL	39	Act	B		2	10	Kittitas
05001	OLD_GERMAN BAPTIST CHURCH	39	Act	B		1	0	Kittitas
AB227	Orin Estates	39	Act	B		6	1	Kittitas
06736	ORMBREK WATER SYSTEM	39	Act	B		2	5	Kittitas
08337	ORRION FARM	39	Act	B		5	10	Kittitas
04253	PARKE CREEK TREATMENT CENTER	39	Act	B		1	0	Kittitas
06374	PARKER SECRET VALLEY WATER SYSTEM	39	Act	B		4	12	Kittitas
06246	PARKER WATER SYSTEM	39	Act	B		4	10	Kittitas
AA906	Parlova Miller #1	39	Act	B		5	14	Kittitas
04156	PAYS ROAD WATER SYSTEM	39	Act	B		6	12	Kittitas
AA551	PEDEFERRI WATER SYSTEM	39	Act	B		4	10	Kittitas
05525	PEOH POINT WATER SYSTEM	39	Act	B		2	4	Kittitas
AA439	Pleasant Trees Water Association	39	Act	B		1	0	Kittitas
07912	RAVET WATER SYSTEM	39	Act	B		2	6	Kittitas
02749	RIDGE VIEW ESTATES	39	Act	B		9	0	Kittitas
AA083	RIDGEWATER ESTATES #3	39	Act	B		2	5	Kittitas
AA084	RIDGEWATER ESTATES #5	39	Act	B		2	5	Kittitas
05526	RIDGEWATER ESTATES 1	39	Act	B		4	10	Kittitas
AA095	RIDGEWATER ESTATES 2	39	Act	B		4	10	Kittitas
05521	RIDGEWATER ESTATES 4	39	Act	B		4	10	Kittitas
AB278	Rill	39	Act	B		6	1	Kittitas
06898	ROBINSON, DICK WATER SYSTEM	39	Act	B		2	6	Kittitas
AA663	Rose Hill Farm B & B	39	Act	B		1	2	Kittitas
AA824	Rosehip Water System	39	Act	B		8	24	Kittitas
AA193	SANDERS RD SHORT PLAT	39	Act	B		3	8	Kittitas
AA415	SHAMBERGEETA	39	Act	B		3	10	Kittitas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
06580	SHELSTAD-PERSON-HAYS SYSTEM	39	Act	B		4	10	Kittitas
AA743	SHER MAR PARK ASSN	39	Act	B		6	24	Kittitas
AB226	Shira Estates	39	Act	B		6	1	Kittitas
04764	SHOOP/HISKEY WELL	39	Act	B		4	7	Kittitas
AB387	Sieber	39	Act	B		8	1	Kittitas
81323	SONS OF NORWAY LODGE (TROLL HAUGEN)	39	Act	B		10		Kittitas
AA366	SPARKS PLAT #1	39	Act	B		4	14	Kittitas
83852	STARWATER WATER SYSTEM	39	Act	B		5	1	Kittitas
04330	STORY CREEK HIDEAWAY	39	Act	B		2	2	Kittitas
06869	STURGIS WELL ASSN 1	39	Act	B		4	6	Kittitas
07742	STUTH, BILL JR WATER SYSTEM	39	Act	B		4	12	Kittitas
03369	SUNNY MEADOWS ESTATES	39	Act	B		3	10	Kittitas
87142	TAMARACK LANE WATER USERS ASSN	39	Act	B		5	18	Kittitas
87253	TEANAWAY ACRES WATER CO	39	Act	B		9	18	Kittitas
87255	TEANAWAY HEIGHTS WATER ASSN	39	Act	B		21	18	Kittitas
88115	THORP FRUIT	39	Act	B		2	5	Kittitas
05530	TJOSSEM POND	39	Act	B		6	18	Kittitas
05168	TREE HAVEN WATER ASSN	39	Act	B		8	20	Kittitas
AB329	Upland Development	39	Act	B		6	1	Kittitas
16142	VALLEY CHRISTIAN SCHOOL	39	Act	B		2	4	Kittitas
04819	VISTA VIEW ESTATES WATER ASSN.	39	Act	B		6	15	Kittitas
AB118	Westside Heights	39	Act	B		3	6	Kittitas
AB224	Westside Heights	39	Act	B		3	12	Kittitas
00743	WHITE-ENGELHART COMMUNITY WS	39	Act	B		2	6	Kittitas
08436	WICKSTROM, ERIK & MARTHA	39	Act	B		5	4	Kittitas
05134	WILLIAMS WATER SYSTEM	39	Act	B		3	8	Kittitas
05052	WILSON CREEK ACRES SYSTEM A	39	Act	B		5	10	Kittitas
05051	WILSON CREEK ACRES SYSTEM B	39	Act	B		6	12	Kittitas
07578	WINDSONG WATER SYSTEM	39	Act	B		4	10	Kittitas
AB277	Wippel Short Plat	39	Act	B		5	15	Kittitas
07034	YAKIMA TRAINING CENTER - BADGER GAP	39	Act	B		20		Kittitas
07032	YAKIMA TRAINING CENTER - EXIT 11	39	Act	B		10		Kittitas
07033	YAKIMA TRAINING CENTER - RANGE 19	39	Act	B		10		Kittitas
08119	ALPINE WONDER MOTLEY WELL ASSN	39	Act	B		6	7	Whitman
10377	60 Poulin Road Well	39	Act	B		3	8	Yakima
00028	A-2 COLLINS RD WELL	39	Act	B		4	10	Yakima
04090	ALDEN S WATER WELL	39	Act	B		2	7	Yakima
01831	ALPINE PLEASANT HILLS WATER	39	Act	B		4	10	Yakima
06582	ANGUS LANE WATER	39	Act	B		8	20	Yakima
08274	ANNA LANE WATER	39	Act	B		3	12	Yakima
03557	ASHBAUGH BOTTLED WATER	39	Act	B		2	1	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
03596	B-3 POULIN RD WELL	39	Act	B		3	8	Yakima
05465	B-T PROPERTIES	39	Act	B		3	12	Yakima
04096	BADGER WELL	39	Act	B		2	5	Yakima
03999	BATTERSON-HARVEY WATER SYSTEM	39	Act	B		3	12	Yakima
04356	BECKON RIDGE #3	39	Act	B		5	20	Yakima
21844	BENROY-JOHNSON WATER USER ASSN	39	Act	B		4	10	Yakima
06848	BOWER WATER USERS ASSN	39	Act	B		2	8	Yakima
04802	BUCHANAN SUBDIVISION	39	Act	B		8	23	Yakima
10375	C-1 POULIN RD WELL	39	Act	B		2	5	Yakima
02472	CAKES BY ANN WATER SYSTEM	39	Act	B		2	2	Yakima
24331	CAMP PRIME TIME	39	Act	B		50		Yakima
41294	CARLSON WATER	39	Act	B		4	12	Yakima
AA323	CCK WATER SYSTEM	39	Act	B		2	10	Yakima
22426	CLEAR WATER WELL	39	Act	B		4	14	Yakima
08381	COLLINS AQUA FLO	39	Act	B		4	10	Yakima
06257	CRAIG COMMUNITY WELL	39	Act	B		2	4	Yakima
01527	DRISCOLL ROAD WATER SYSTEM	39	Act	B		2	6	Yakima
AA421	Dubrule Water System	39	Act	B		3	6	Yakima
04998	EAST CONRAD ROAD WATER ASSOCIATION	39	Act	B		4	16	Yakima
04429	EHS WATER PLANT	39	Act	B		3	10	Yakima
22630	EL TOPPENISH APTS	39	Act	B		6	15	Yakima
56156	ELLIS WELL	39	Act	B		5	9	Yakima
00093	ELSNER COMMUNITY WATER SYSTEM	39	Act	B		3	11	Yakima
03946	EXPENSIVE WELL	39	Act	B		2	5	Yakima
03847	FACTOR ONE WELL	39	Act	B		2	10	Yakima
03749	FIFE WATER SYSTEM	39	Act	B		2	5	Yakima
AA228	FRANK, RON WATER USERS ASSN	39	Act	B		3	6	Yakima
07904	FRENCH, BRUCE T 2 WATER SYSTEM	39	Act	B		2	4	Yakima
07213	FRENCH, BRUCE WATER SYSTEM	39	Act	B		2	12	Yakima
AA385	French, Bruce Water System #3	39	Act	B		2	4	Yakima
03639	FRENCH, R.W. WATER SYSTEM	39	Act	B		2	4	Yakima
07612	FRIDAY POINT WATER USERS	39	Act	B		3	9	Yakima
04635	GABBARD S WELL	39	Act	B		2	3	Yakima
62291	GEPHART WATER SYSTEM	39	Act	B		5	13	Yakima
07608	GRANGE ROAD WATER	39	Act	B		2	4	Yakima
03519	GRENZ WELL	39	Act	B		3	6	Yakima
04562	H.D.L. WATER SYSTEM	39	Act	B		2	8	Yakima
05411	HANNA WATER SYSTEM	39	Act	B		4	12	Yakima
03945	HAWK HAVEN WATER	39	Act	B		3	13	Yakima
04581	HIGHLAND ARTESIAN COMMUNITY WELL	39	Act	B		3	8	Yakima
33615	HOFFMAN WELL	39	Act	B		4	10	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
27964	HUMANE SOCIETY OF CENTRAL WA/SPCA	39	Act	B		2	3	Yakima
03747	HUMPHRIES, JACK WATER SYSTEM	39	Act	B		2	9	Yakima
00829	IDLE HOUR SUMMER HOMES	39	Act	B		2	5	Yakima
00843	Katie Lane Water Assn	39	Act	B		8	24	Yakima
39042	KELLOUGH COMMUNITY WELL	39	Act	B		3	8	Yakima
04100	KISSEL WATER SYSTEM	39	Act	B		2	5	Yakima
04051	LAMBERTON WELL	39	Act	B		2	5	Yakima
46123	LARSON WATER USERS ASSN	39	Act	B		10	22	Yakima
01677	LEENHOUTS WELL	39	Act	B		4	10	Yakima
29481	LOCUST AVENUE WATER USERS	39	Act	B		2	5	Yakima
03477	LUFT WATER SYSTEM	39	Act	B		2	5	Yakima
08297	MABEE WATER SYSTEM	39	Act	B		4	14	Yakima
07865	MANLEY WATER USERS ASSN	39	Act	B		2	4	Yakima
07960	MAPLEWAY ADDITION H2O USERS ASSN	39	Act	B		3	10	Yakima
05853	MARISA HILL #2	39	Act	B		9	10	Yakima
56551	MARISA HILL WATER ASSOCIATION	39	Act	B		4	23	Yakima
04249	MARSING-GANO WELL	39	Act	B		6	15	Yakima
04762	MAYO CATTLE HOMEOWNERS ASSN	39	Act	B		6	17	Yakima
04130	MC GARITY RANCH	39	Act	B		2	5	Yakima
02909	MC LEAN WATER SYSTEM	39	Act	B		3	15	Yakima
05611	McCauley Water System	39	Act	B		3	12	Yakima
04246	MELTON WELL	39	Act	B		2	8	Yakima
00841	MILLER WATER SYSTEM	39	Act	B		3	8	Yakima
02223	MILLER, WILLIAM J. WATER SYSTEM	39	Act	B		2	3	Yakima
AB388	Moore Water System	39	Act	B		1	1	Yakima
04087	MORIAH NORTH ESTATES #1	39	Act	B		14	22	Yakima
25723	MORIAH NORTH ESTATES #2	39	Act	B		14	20	Yakima
04088	MORIAH NORTH ESTATES #3	39	Act	B		11	13	Yakima
56159	MORRIS-MEYER COMMUNITY WELL	39	Act	B		2	5	Yakima
AA352	Mt View Meadows 4	39	Act	B		3	10	Yakima
56301	NELSON/NEWKIRK WATER SYSTEM	39	Act	B		2	6	Yakima
61290	NORTH SLOPE WELL ASSOCIATION	39	Act	B		3	7	Yakima
06761	OAKWOOD ACRES WATER SYSTEM 1	39	Act	B		5	18	Yakima
08336	OLSON SCOTT COMMUNITY WELL	39	Act	B		3	9	Yakima
01529	ONE BELL WATER SYSTEM	39	Act	B		2	4	Yakima
65055	OWENS EQUIPMENT	39	Act	B		10		Yakima
04877	PEARSON ESTATES #1	39	Act	B		8	16	Yakima
07163	PEARSON WELL #2	39	Act	B		3	15	Yakima
01773	PENNIES FROM HEAVEN	39	Act	B		2	3	Yakima
04993	PERFECT WATER	39	Act	B		3	12	Yakima
05045	PHILLIPS WATER SYSTEM	39	Act	B		2	5	Yakima



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AA794	Picatti	39	Act	B		4	4	Yakima
67869	PLEASANT HILLS WATER ASSN	39	Act	B		4	10	Yakima
02092	POMONA TAVERN	39	Act	B		1	0	Yakima
69175	PRECISION FRUIT	39	Act	B		1	0	Yakima
07417	QUAIL TRAIL WATER SYSTEM	39	Act	B		2	6	Yakima
06040	QUALITY HARTLAND 1	39	Act	B		6	16	Yakima
56091	R&P WATER SYSTEM	39	Act	B		4	10	Yakima
02187	RICHTER WATER SYSTEM	39	Act	B		4	12	Yakima
04247	RISON WATER SYSTEM	39	Act	B		3	9	Yakima
04131	RIVERS EDGE COMMUNITY WELL	39	Act	B		6	18	Yakima
03260	ROY, TED COMMUNITY WELL	39	Act	B		2	6	Yakima
05765	ROYAL FLUSH WATER SYSTEM	39	Act	B		4	16	Yakima
02430	S&H WATER SYSTEM	39	Act	B		2	9	Yakima
06907	SALI WATER USERS ASSN	39	Act	B		3	10	Yakima
76735	SCHREINER WATER SYSTEM	39	Act	B		9	23	Yakima
03518	SEAWARD RANCH WATER SYSTEM	39	Act	B		3	12	Yakima
02687	SELAH BUTTE #1	39	Act	B		8	22	Yakima
05598	SELAH BUTTE #2	39	Act	B		6	24	Yakima
05599	SELAH BUTTE #3	39	Act	B		6	24	Yakima
03712	SELAH HEIGHTS WATER USERS ASSN	39	Act	B		2	8	Yakima
02054	SHORT PLAT 84-1 WATER USERS ASSN	39	Act	B		5	20	Yakima
01891	SINCLAIR WATER SYSTEM	39	Act	B		2	6	Yakima
08365	SOLE F WELL	39	Act	B		2	4	Yakima
03215	SONYA WELL	39	Act	B		3	7	Yakima
08369	SOPTICH COMMUNITY WELL	39	Act	B		2	5	Yakima
21780	SOULE, LAWRENCE E	39	Act	B		2	5	Yakima
82977	SPEYERS MOBILE COURT	39	Act	B		13	22	Yakima
04920	SPURGIN #1 WATER SYSTEM	39	Act	B		4	14	Yakima
00640	SUTTON, JERALD L. WATER SYSTEM	39	Act	B		2	6	Yakima
21793	SYVERSON, JOHN E	39	Act	B		2	5	Yakima
04517	TASHAS WATER ASSOCIATION	39	Act	B		5	15	Yakima
00078	TAYLOR WATER SYSTEM	39	Act	B		9	23	Yakima
20787	Taylor Well	39	Act	B		4	10	Yakima
AA227	THOMPSON WELL	39	Act	B		3	6	Yakima
04633	Thompson, Brent	39	Act	B		4	10	Yakima
06170	TOWNER WATER USERS ASSN	39	Act	B		3	10	Yakima
04148	TYLER S FOLLEY WATER SYSTEM	39	Act	B		3	12	Yakima
AA322	VALLEY VIEW ESTATE WELL	39	Act	B		3	12	Yakima
39677	VAN HEES WATER SYSTEM	39	Act	B		2	4	Yakima
03486	VIERNES-WILLARD WELL	39	Act	B		2	12	Yakima
00844	VISTA RIDGE WATER SYSTEM	39	Act	B		10	24	Yakima

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
04314	W & D VAN ALSTINE WATER SYSTEM	39	Act	B		3	8	Yakima
94335	WENAS LAKE RESORT INC	39	Act	B		14	0	Yakima
00703	WESTRIDGE COMMUNITY WELL	39	Act	B		3	16	Yakima
04142	WHITE S ESTATES	39	Act	B		4	10	Yakima
03049	WICKSTROM COMMUNITY WELL	39	Act	B		7	23	Yakima
00137	WINDWALKER WATER SYSTEM	39	Act	B		2	5	Yakima
06191	YAK CO - GIBSON ROAD WATER SYSTEM	39	Act	B		4	12	Yakima
07338	YAK CO - HEYSMAN	39	Act	B		3	9	Yakima
06188	YAK CO - KODI SOUTH #1	39	Act	B		8	24	Yakima
06189	YAK CO - KODI SOUTH #2	39	Act	B		8	24	Yakima
07833	YAK CO - NAGLER	39	Act	B		5	15	Yakima
08039	YAK CO - RAY SYMMONDS	39	Act	B		4	12	Yakima
06693	YAK CO - WENAS BUTTON WATER SYSTEM	39	Act	B		3	9	Yakima
06677	YAK CO - WENAS HUNTZINGER 1	39	Act	B		4	12	Yakima
AA461	Yakima CO - Beckon Ridge	39	Act	B		1	3	Yakima
AA116	Yakima CO - Buchanan Water System	39	Act	B		3	9	Yakima
AA042	Yakima CO - Wiseacer	39	Act	B		2	6	Yakima
07030	YAKIMA TRAINING CENTER - RANGE 55	39	Act	B		2	0	Yakima
07031	YAKIMA TRAINING CTR SELAH AIR STRIP	39	Act	B		1	0	Yakima
07949	YOUNG ACRES WATER SYSTEM	39	Act	B		2	4	Yakima
18141	CARSON - RHOTEN	40	Act	B		4	10	Benton
00180	ENERGY, DEPT OF/609 FIRE STATION	40	Act	B		1	0	Benton
00183	ENERGY, DEPT OF/TRAINING ACADEMY	40	Act	B		4	0	Benton
00184	ENERGY, DEPT OF/YAKIMA BARRICADE	40	Act	B		1	0	Benton
AB046	Energy, Dept. of / WYE Barricade	40	Act	B		1	0	Benton
14787	FRENCH, RAY WELL	40	Act	B		4	10	Benton
14520	HILLSIDE ORCHARDS	40	Act	B		5	13	Benton
29359	MOLT WATER SYSTEM	40	Act	B		2	7	Benton
06880	R-WELL WATER SYSTEM	40	Act	B		2	5	Benton
18664	SHANE, BILL W.	40	Act	B		2	2	Benton
04906	ALLGOOD WATER ASSOCIATION	40	Act	B		4	7	Chelan
06488	BEAR MOUNTAIN DIVISION	40	Act	B		3	10	Chelan
14062	COLOCKUM MULT USE RES UNIT	40	Act	B		3	3	Chelan
03364	DEPENDABLE SPRINGS	40	Act	B		8	20	Chelan
29177	GRAVES BURDICK WATER	40	Act	B		4	10	Chelan
01064	LUEBBER WATERWORKS	40	Act	B		4	12	Chelan
07262	MORRIS WEST 20 40 LLC	40	Act	B		1	0	Chelan
00760	PIONEER WAY #1	40	Act	B		5	12	Chelan
04124	PIONEER WAY #2	40	Act	B		6	14	Chelan
73380	ROCK ISLAND DAM POWER HOUSE 2	40	Act	B		1	0	Chelan
07269	Shiflett Water System	40	Act	B		3	0	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07272	SPANISH CASTLE ORCHARDS INC	40	Act	B		4	12	Douglas
AB178	Trinidad River View	40	Act	B		7	1	Douglas
34384	EPPICH WATER SYSTEM	40	Act	B		5	10	Franklin
00311	RANCH WATER SYSTEM	40	Act	B		3	8	Franklin
04420	SMITH EDDIE WATER SYSTEM	40	Act	B		4	10	Grant
BP590	VANTAGE SUBSTATION	40	Act	B		1	0	Grant
03841	MASON, VIC COMMUNITY WELL	40	Act	B		2	2	Yakima
28456	ADAMS COUNTY LANDFILL	41	Act	B		1	0	Adams
AA094	BENCH VIEW WELL	41	Act	B		8	24	Adams
05851	BOULDER FLATS WATER SYSTEM	41	Act	B		4	10	Adams
11000	CANAL TRACTS WATER SYSTEM	41	Act	B		6	22	Adams
07930	CRAB CREEK WINERY	41	Act	B		2	4	Adams
20080	DRY LAND RESEARCH UNIT - LIND	41	Act	B		4	0	Adams
06803	GARZA LABOR CAMP WATER SYSTEM	41	Act	B		8	1	Adams
27234	GARZA VILLAGE WATER SYSTEM	41	Act	B		7	19	Adams
AA298	GARZA WATER ASSOCIATION	41	Act	B		3	14	Adams
31582	HASTINGS GROUP SERVICE	41	Act	B		4	12	Adams
08231	HEEB LORAN BEN WATER SYSTEM	41	Act	B		4	10	Adams
65751	HOKSBERGEN DEVELOPMENT LLC	41	Act	B		2	1	Adams
06558	KILMER, TERRY WATER SYSTEM	41	Act	B		1	0	Adams
08887	Lee Road Water Association	41	Act	B		4	12	Adams
06688	MENNO MENNONITE CHURCH	41	Act	B		2	4	Adams
AB349	Quail Landing	41	Act	B		1	4	Adams
30544	RANCH ESTATES WATER	41	Act	B		4	10	Adams
10101	STEENBLOCK TRUST	41	Act	B		4	10	Adams
03395	T16 RANCH - HACIENDA	41	Act	B		7	6	Adams
08335	TEMPLIN TERMINAL LLC	41	Act	B		1	0	Adams
67220	T16 RANCH - BEATRICE	41	Act	B		5	10	Adams
08116	VINEYARD LANE SYSTEM I	41	Act	B		2	2	Adams
07905	WEeping RIDGE ESTATE	41	Act	B		1	10	Adams
95031	WEST VIEW WATER ASSOCIATION	41	Act	B		6	18	Adams
AA170	MOORE BED & BREAKFAST	41	Act	B		2	2	Chelan
34077	COLUMBIA CLIFFS ASSN	41	Act	B		8	9	Douglas
02459	MANSFIELD WATER USERS ASSN	41	Act	B		6	12	Douglas
01574	TRINIDAD TOWNSITE WATER SYSTEM	41	Act	B		2	5	Douglas
00005	ADCO O&M HQ	41	Act	B		1	0	Grant
00660	ALA COZY MOTEL	41	Act	B		11	2	Grant
04419	AMMANN WATER SYSTEM	41	Act	B		2	3	Grant
41999	ANDERSON SYSTEM 1	41	Act	B		2	5	Grant
41879	ANDERSON, WILLIAM WATER SYSTEM	41	Act	B		2	5	Grant
04831	ASTRO #1	41	Act	B		8	23	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
21042	BABCOCK DR - QCBID	41	Act	B		2	5	Grant
03623	BAKER, BETTY WATER SYSTEM	41	Act	B		2	2	Grant
03915	BALDERAS WATER SYSTEM	41	Act	B		2	6	Grant
AB119	Barrett	41	Act	B		4	1	Grant
AA122	BASELINE .5 WATER SYSTEM	41	Act	B		2	8	Grant
34631	BASIN MEATS	41	Act	B		5	10	Grant
51587	BECKLY, DON M	41	Act	B		3	5	Grant
03493	Betcher Water System	41	Act	B		1	2	Grant
02128	BLACK, DAN WATER SYSTEM	41	Act	B		2	6	Grant
42051	BLOCK 40 COMMUNITY CLUB	41	Act	B		1	0	Grant
21029	BLYTHE O & M - QCBID	41	Act	B		6	15	Grant
03304	BRAD STREET NE WATER ASSOCIATION	41	Act	B		3	5	Grant
51084	BROADWAY ANIMAL HOSPITAL	41	Act	B		3	0	Grant
51116	CAIN WATER SYSTEM	41	Act	B		2	5	Grant
04615	CANTU WELL	41	Act	B		2	8	Grant
AA117	CANYON CREST ORCHARD & RV PARK	41	Act	B		14	3	Grant
07854	CAROL 2 WELL	41	Act	B		3	9	Grant
06694	CAROLINA WATER SYSTEM	41	Act	B		4	18	Grant
08906	CASCADE WATER ASSN INC	41	Act	B		7	18	Grant
AA683	CDSI TRANSFER & RECYCLE	41	Act	B		1	0	Grant
08169	CENEX HARVEST STATES WATER SYSTEM	41	Act	B		1	0	Grant
51349	CENTRAL WA CONCRETE	41	Act	B		2	0	Grant
07147	CHEROKEE HEIGHTS WATER SYSTEM	41	Act	B		5	12	Grant
02521	CHRISTENSEN WATER SYSTEM	41	Act	B		2	3	Grant
03744	COLLARD WELL	41	Act	B		2	8	Grant
14117	COLUMBIA BASIN RESEARCH UNIT 2	41	Act	B		3	5	Grant
56226	COLUMBIA RV	41	Act	B		14	1	Grant
03970	COOPER, DEON WATER SYSTEM	41	Act	B		2	7	Grant
03808	COULSON S WATER SYSTEM	41	Act	B		2	3	Grant
15006	COUNTRY CLUB ESTATES #2 ASSOCIATION	41	Act	B		7	20	Grant
AB223	Cruz	41	Act	B		4	1	Grant
03222	CURLEW CREST	41	Act	B		5	8	Grant
04787	DOBLER, W.J. WATER SYSTEM	41	Act	B		3	12	Grant
00360	DOGLEG WATER ASSN 12	41	Act	B		4	10	Grant
03288	DONOVAN S PLAT #4	41	Act	B		5	24	Grant
31976	DONOVANS PLAT 1	41	Act	B		5	15	Grant
AB121	Doran	41	Act	B		4	1	Grant
AB222	Doremus	41	Act	B		4	1	Grant
07206	DORSING FARMS INC	41	Act	B		2	0	Grant
39333	DRIGGS WATER SYSTEM	41	Act	B		4	8	Grant
03913	EASH/JOHNSON WATER SYSTEM	41	Act	B		2	2	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AB175	Eastside	41	Act	B		1	1	Grant
21016	EVERGREEN DR - QCBID	41	Act	B		2	5	Grant
24085	EVERGREEN MOBILE HOME PARK	41	Act	B		13	19	Grant
24510	FAIRVIEW WATER USERS	41	Act	B		13	21	Grant
24670	FARMERS DRIVE ASSN	41	Act	B		12	18	Grant
20977	FRENCHMAN, HILL PP - QCBID	41	Act	B		2	5	Grant
07230	FRENCHMEN HILLS ORCHARD	41	Act	B		2	2	Grant
04734	GARCIA, ROBERT D.	41	Act	B		2	6	Grant
27400	GEORGE WATERMASTER	41	Act	B		3	4	Grant
03062	GLAESEMANN, KARL WATER SYSTEM	41	Act	B		2	4	Grant
04144	GONZALES WATER SYSTEM	41	Act	B		2	8	Grant
39640	GRANT ORCHARDS WATER COMPANY	41	Act	B		2	5	Grant
29427	GREEN WATER SYSTEM	41	Act	B		2	3	Grant
29800	GREENVIEW WATER ASSN INC	41	Act	B		4	12	Grant
04672	HELLEWELL S ENTERPRISES	41	Act	B		3	6	Grant
02589	HESLOP FARMS CO LLC	41	Act	B		2	12	Grant
01653	HOCHSTATTER WATER SYSTEM	41	Act	B		7	14	Grant
04507	HORIZON ESTATES WATER SYSTEM	41	Act	B		5	17	Grant
AB120	Hunt	41	Act	B		4	1	Grant
07853	INLAND HEIGHTS - 3 KEN	41	Act	B		3	7	Grant
07774	INLAND HEIGHTS 1-ED	41	Act	B		2	8	Grant
16103	INTERNATIONAL TITANIUM INC	41	Act	B		10		Grant
34644	JAHN/ALSTED WATER SYSTEM	41	Act	B		2	5	Grant
51728	JAKE S MEATS	41	Act	B		6	13	Grant
AB123	James	41	Act	B		4	1	Grant
51731	JENNE, TIM WATER SYSTEM	41	Act	B		3	6	Grant
03069	Johnson, Matthew Water System	41	Act	B		4	13	Grant
03573	JOHNSON-RIMPLE WATER SYSTEM	41	Act	B		2	5	Grant
03015	JONES, KENNETH WATER SYSTEM	41	Act	B		4	9	Grant
04498	JONES, MRS. MARY L. WATER SYSTEM	41	Act	B		2	10	Grant
04297	KEAN, SANDI WATER SYSTEM	41	Act	B		3	3	Grant
02586	KELLER WATER SYSTEM	41	Act	B		3	10	Grant
AB220	Kennedy	41	Act	B		4	1	Grant
56221	KOEPEL WATER SYSTEM	41	Act	B		2	5	Grant
AA028	Koller	41	Act	B		5	7	Grant
18261	LAKESHORE WATER ASSN INC	41	Act	B		11	21	Grant
07918	LAKESHORES WEST 1	41	Act	B		6	6	Grant
07919	LAKESHORES WEST 2	41	Act	B		2	2	Grant
03587	LAMBRO WATER SYSTEM	41	Act	B		4	12	Grant
03819	LARSEN, MARVIN WATER SYSTEM	41	Act	B		2	4	Grant
46110	LARSON MOBIL HOME PARK	41	Act	B		10	23	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
19063	LAS BRISAS FOUNDATION	41	Act	B		12	0	Grant
03877	LAWRENCE WELL/KWIQ	41	Act	B		2	1	Grant
56305	LIVESTOCK AUCTION	41	Act	B		1	0	Grant
48600	LO WE WATER ASSN	41	Act	B		4	10	Grant
07702	LOST LANE LLC	41	Act	B		6	9	Grant
20990	LOW GAP DR - QCBID	41	Act	B		2	5	Grant
49145	LYNDEN FARM DIV OF WESTERN FARMERS	41	Act	B		2	5	Grant
21729	MAJOR OIL CO	41	Act	B		1	3	Grant
51040	MALLARD S LANDING WATER SYSTEM	41	Act	B		5	14	Grant
75340	MAPLES PLAT WATER SYSTEM	41	Act	B		9	23	Grant
51500	MAR BRA WATER ASSOCIATION	41	Act	B		5	8	Grant
03128	MARTINEZ, JOHNNY WATER SYSTEM	41	Act	B		3	12	Grant
03695	MARTINEZ, LEONEL WATER SYSTEM	41	Act	B		3	8	Grant
AA176	MATHEWS FARM	41	Act	B		5	6	Grant
04671	MATTHEW S WELL	41	Act	B		2	7	Grant
02420	MC DONALD, TED WATER SYSTEM	41	Act	B		2	2	Grant
07308	MC DOUGAL WATER SYSTEM	41	Act	B		3	14	Grant
06695	MCBEE WATER SYSTEM	41	Act	B		4	16	Grant
03261	MOSES LAKE LIVESTOCK MARKET INC.	41	Act	B		2	0	Grant
03697	MOUNTAIN VIEW ESTATES	41	Act	B		7	15	Grant
AA719	MR BROWNS VILLAGE	41	Act	B		12	24	Grant
57000	MT VIEW WATER SYSTEM	41	Act	B		10	23	Grant
02382	NASH, DANIEL WATER SYSTEM	41	Act	B		2	7	Grant
04431	NAYLORDALE INDUSTRIAL PARK	41	Act	B		4	1	Grant
02213	NEWTON, DAVE WTR. SYS.	41	Act	B		2	5	Grant
02212	NEWTON, MOLLI WTR. SYS.	41	Act	B		2	7	Grant
51492	NORTH WHEELER WATER ASSN	41	Act	B		7	5	Grant
05000	NORTHWEST WHOLESALE WATER SYSTEM	41	Act	B		1	0	Grant
04730	NOYOLA WATER SYSTEM	41	Act	B		2	2	Grant
02778	O NEEL/AVILA WATER SYSTEM	41	Act	B		2	12	Grant
05907	OLD #61 WATER SYSTEM	41	Act	B		4	16	Grant
05908	OLD #96 WATER SYSTEM	41	Act	B		4	17	Grant
AB276	Ordway	41	Act	B		4	1	Grant
08043	PANORAMA HEIGHTS	41	Act	B		7	18	Grant
66139	PARK ORCHARD TRACT 40	41	Act	B		12	22	Grant
19211	PARK PLACE WATER SYSTEM	41	Act	B		7	18	Grant
51101	PARR & ASSOCIATES ENGINEERING	41	Act	B		1	0	Grant
42101	PERLEBERG/WEBER WATER SYSTEM	41	Act	B		2	8	Grant
AB122	Perry	41	Act	B		4	1	Grant
02572	PETERSON, DWIGHT & VALERIE	41	Act	B		2	4	Grant
03776	PFEIFFER WELL	41	Act	B		2	7	Grant



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
67750	PLAINVIEW WATER USERS	41	Act	B		6	17	Grant
BP470	POTHOLES SUBSTATION	41	Act	B		1	0	Grant
04043	POWELL, MARTHA WATER SYSTEM	41	Act	B		2	5	Grant
29079	PRIEST RAPIDS FISHERIES BUILDING	41	Act	B		1	0	Grant
17488	QUINCY LIVESTOCK MARKET INC	41	Act	B		1	0	Grant
02146	QUINCY SDA CHURCH	41	Act	B		1	0	Grant
AB260	Quincy Shop Public Works	41	Act	B		1		Grant
08051	QUINCY VALLEY GOLF CLUB	41	Act	B		7	0	Grant
33103	REID WELL	41	Act	B		7	12	Grant
51286	REISNER & DRIGGS WATER SYSTEM	41	Act	B		2	3	Grant
51666	RHODES-MICHALISZYN	41	Act	B		2	4	Grant
39690	RISING SUN ORCHARD	41	Act	B		2	5	Grant
04009	RODRIGUEZ, TITO WATER SYSTEM	41	Act	B		2	4	Grant
07362	ROYAL BLUFF ORCHARD	41	Act	B		2	1	Grant
07994	ROYAL BLUFF RANCH	41	Act	B		13	4	Grant
02522	ROYAL CITY GOLF COURSE/RV FACILITY	41	Act	B		14	1	Grant
51837	ROYAL SLOPE SCALES	41	Act	B		5	5	Grant
74750	ROYAL WATER MASTER - QCBID	41	Act	B		7	11	Grant
00020	SADDLE MOUNTAIN INDUSTRIAL PARK	41	Act	B		3	0	Grant
30951	SADDLE MOUNTAIN WINERY	41	Act	B		2	1	Grant
03969	SAM	41	Act	B		2	8	Grant
05583	SAND DUNES WASTE WATER TREATMENT	41	Act	B		2	0	Grant
21003	SAND HOLLOW DR - QCBID	41	Act	B		2	5	Grant
75158	SCBID WAHATIS HOUSING	41	Act	B		2	6	Grant
38714	SCHICK DOMESTIC WELL	41	Act	B		2	5	Grant
62798	SCHICK, THEODORE & EVELYN	41	Act	B		13	2	Grant
04758	SCHWANA WATER SYSTEM	41	Act	B		2	4	Grant
AB221	Scott	41	Act	B		4	8	Grant
27181	SHERIFF WATER SYSTEM	41	Act	B		4	9	Grant
07307	SHORECREST WATER SYSTEM	41	Act	B		5	13	Grant
51479	SHORT RANCH WATER WELLS	41	Act	B		6	3	Grant
06206	SMITH BROTHERS DAIRY	41	Act	B		1	0	Grant
03216	SMITH BROTHERS WELL	41	Act	B		3	8	Grant
03665	SMITH, GARY WATER SYSTEM	41	Act	B		2	3	Grant
81570	SOUTH BLUE LAKE WATER ASSN	41	Act	B		7	0	Grant
02381	SOUTHFORK RANCHETTES WATER SYSTEM	41	Act	B		3	6	Grant
03977	Stern	41	Act	B		2	6	Grant
07542	STRATFORD ROAD ESTATES 1-1	41	Act	B		7	21	Grant
07550	STRATFORD ROAD ESTATES 1-2	41	Act	B		4	16	Grant
07606	STRATFORD ROAD ESTATES 1-3	41	Act	B		7	21	Grant
08252	STRATFORD TRAILER PARK - EAST WELL	41	Act	B		6	6	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01771	SUN VALLEY ORCHARD	41	Act	B		1	0	Grant
07913	T AND T ORCHARDS	41	Act	B		14	18	Grant
08076	TROUT LAKE FARM	41	Act	B		2	23	Grant
CG255	USCG LORAN C STATION GEORGE	41	Act	B		1	0	Grant
AB095	Valerina Water System	41	Act	B		4	6	Grant
03403	VALLEY HOMES #1	41	Act	B		3	10	Grant
03402	VALLEY HOMES #2	41	Act	B		3	10	Grant
17621	VAN DYKEN, BRIAN	41	Act	B		2	5	Grant
91700	VICTOR WATER CORP	41	Act	B		5	13	Grant
91905	VIEWRIDGE APTS	41	Act	B		13	20	Grant
93064	WA DEPT OF GAME FISH HATCHERY	41	Act	B		5	13	Grant
92062	WAGON WHEEL ESTATE	41	Act	B		7	19	Grant
02985	WALKER, MIKE WATER SYSTEM	41	Act	B		2	4	Grant
29078	WANAPUM MAINTENENCE CENTER	41	Act	B		2	0	Grant
29081	WANAPUM SWITCHYARD	41	Act	B		1	0	Grant
32411	WARNICK WATER SYSTEM	41	Act	B		2	5	Grant
93550	WATER USERS 91 INC	41	Act	B		4	10	Grant
07361	WEBER ORCHARD	41	Act	B		6	5	Grant
02690	WEITZEL WATER SYSTEM	41	Act	B		2	6	Grant
34651	WESTERN FARM SERVICE INC	41	Act	B		1	0	Grant
04452	WESTSHORE ACRES COMMUNITY WATER	41	Act	B		5	14	Grant
07688	WESTVIEW ESTATES WELL #1	41	Act	B		4	15	Grant
07727	WESTVIEW ESTATES WELL #2	41	Act	B		3	11	Grant
07834	WESTVIEW ESTATES WELL 3	41	Act	B		4	5	Grant
18526	WHISPERING WINDS SEVENTH DAY ADV	41	Act	B		2	4	Grant
03221	WHITE TRAIL GRANGE	41	Act	B		1	0	Grant
34590	WIERSMA WATER SYSTEM	41	Act	B		2	5	Grant
01536	WILCOX FARM/WHEELER	41	Act	B		3	4	Grant
97220	WILLOW ACRES APARTMENTS	41	Act	B		12	12	Grant
04311	WILLOW DRIVE TRAILER PARK	41	Act	B		6	15	Grant
01740	WILSON WATER SYSTEM	41	Act	B		2	5	Grant
AA175	WINCHESTER RV PARK	41	Act	B		6	18	Grant
08205	WINCHESTER VIEW ESTATES	41	Act	B		3	10	Grant
97435	WINCHESTER WATERMASTER	41	Act	B		5	9	Grant
21051	WZOB DR - QCBID	41	Act	B		2	5	Grant
AA177	YACKLEY, TIM	41	Act	B		13	14	Grant
04139	CLEAR WATER VILLAGE	41	Act	B		2	5	Yakima
04620	ARY, WILMA WATER SYSTEM	42	Act	B		2	4	Grant
10055	BUTLER HAZEL	42	Act	B		6	17	Grant
43197	CENTRAL WASHINGTON GRAIN GROWERS	42	Act	B		2		Grant
AB167	Click	42	Act	B		3	7	Grant

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
18797	DE MILLES LONG LAKE GROCERY	42	Act	B		1	3	Grant
03879	DESERT OASIS	42	Act	B		4	6	Grant
AB291	Desert View Acres	42	Act	B		4	12	Grant
04407	DONOVAN S PLAT #2	42	Act	B		6	15	Grant
04408	DONOVAN S PLAT #3	42	Act	B		4	16	Grant
04409	DONOVANS PLAT 5 EAST AND WEST	42	Act	B		6	14	Grant
HD141	DOT COULEE CITY MAINTENANCE SITE	42	Act	B		2	0	Grant
51725	GALLAWAY PRODUCE	42	Act	B		2	3	Grant
27303	GEM APARTMENTS	42	Act	B		14	5	Grant
39651	GRANT ORCHARD MHP	42	Act	B		7	8	Grant
01896	HEINRICK WATER SYSTEM	42	Act	B		2	4	Grant
AB106	Moore's Chapel Park Water System	42	Act	B		5	0	Grant
70798	RAINEYS CIRCLE TRAILER COURT	42	Act	B		6	6	Grant
79266	SILVER SANDS ESTATES	42	Act	B		6	7	Grant
84585	STRATFORD TRAILER PARK - WEST WELL	42	Act	B		14	14	Grant
04304	STUCKMEYER WATER SYSTEM	42	Act	B		4	8	Grant
AA110	SUMMER FALLS PARK	42	Act	B		1	0	Grant
05002	CF INDUSTRIES INC - RITZVILLE	43	Act	B		1	0	Adams
94384	WENGER, MAY	43	Act	B		14	14	Grant
41164	BROUGHER RANCH INC	43	Act	B		3	0	Lincoln
19906	LAKEVIEW SUBDIVISION	43	Act	B		9	16	Lincoln
24292	LONG LAKE OPERATORS VILLAGE	43	Act	B		4	9	Lincoln
02428	MC GREGOR COMPANY WATER SYSTEM	43	Act	B		1	0	Lincoln
00196	PORTER WELL WATER SYSTEM	43	Act	B		12	12	Lincoln
01030	SNEVA WATER SYSTEM	43	Act	B		9	23	Lincoln
41934	BLANTON WATER SYSTEM	43	Act	B		2	5	Spokane
39114	CORY-DAVIE WATER SYSTEM	43	Act	B		2	6	Spokane
62676	GAUMER WATER SYSTEM	43	Act	B		3	6	Spokane
01123	LAZY R WATER SYSTEM	43	Act	B		2	3	Spokane
14614	RAINBOW COVE	43	Act	B		14	3	Spokane
03262	WINDY WATERS SYSTEM	43	Act	B		2	7	Spokane
05910	LAUREL ESTATES WATER SYSTEM	44	Act	B		2	4	Chelan
08199	PARADISE SHORES	44	Act	B		6	15	Chelan
06423	SOUTH SHORE ESTATES WATER SYSTEM	44	Act	B		6	24	Chelan
AA086	SUMMER CAMP	44	Act	B		9	18	Chelan
AA469	Sweep	44	Act	B		4	16	Chelan
07661	BADGER MOUNTAIN SKI HILL	44	Act	B		1	0	Douglas
02048	BADGER VIEW WTR. SYS.	44	Act	B		4	12	Douglas
08087	BAIGGS WATER SYSTEM	44	Act	B		2	5	Douglas
AA602	CAMEO WATER SYSTEM	44	Act	B		4	10	Douglas
AA606	CHARDONNAY WATER SYSTEM	44	Act	B		5	10	Douglas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
06974	COLUMBIA POINTE WATER SYSTEM	44	Act	B		10	20	Douglas
BP170	COLUMBIA SUBSTATION	44	Act	B		1	0	Douglas
06701	COLUMBIA VIEWS ORCHARD	44	Act	B		3	3	Douglas
00167	DAISY HILL WATER SYSTEM	44	Act	B		11	24	Douglas
17807	DANIELS WATER SYSTEM	44	Act	B		7	15	Douglas
06687	DOUGLAS COUNTY FIRE DISTRICT 4	44	Act	B		1	0	Douglas
23774	DOUGLAS GENERAL STORE	44	Act	B		6	2	Douglas
07893	EZ ACCESS MINI STORAGE	44	Act	B		2	0	Douglas
AA604	GAMAY WATER SYSTEM	44	Act	B		5	10	Douglas
03988	HURST LANDING	44	Act	B		8	22	Douglas
02576	JOHN S FRESH WATER	44	Act	B		4	8	Douglas
AA686	JONAGOLD	44	PreAct	B		0	0	Douglas
43292	L & J ORCHARD	44	Act	B		3	5	Douglas
08203	LAKEVIEW SHORES DIV 2	44	Act	B		2	6	Douglas
08390	LAKEVIEW SHORES PHASE I	44	Act	B		2	5	Douglas
46998	LERAY #1	44	Act	B		8	8	Douglas
01662	MCNEILL ORCHARDS	44	Act	B		4	10	Douglas
51921	NELSON S, BILLY WATER SYSTEM	44	Act	B		3	6	Douglas
64370	ORONDO IRRIGATION ASSOCIATION INC	44	Act	B		8	20	Douglas
08053	ORONDO ORCHARD NORTH B	44	Act	B		6	20	Douglas
64375	ORONDO ORCHARDS SOUTH A	44	Act	B		8	20	Douglas
AB473	Piepel Water System	44	Act	B		3	1	Douglas
AA603	PINK LADY WATER SYSTEM	44	Act	B		5	15	Douglas
AB331	Pinot Noir	44	Act	B		6	1	Douglas
18918	PORFIRIO COVARRUBIAS	44	Act	B		2	3	Douglas
AA550	PRYNNE WATER SYSTEM	44	Act	B		3	12	Douglas
07791	RAM ORCHARDS WELL	44	Act	B		7	18	Douglas
05360	RANCHO MANZANAS	44	Act	B		7	10	Douglas
AA599	RED DELICIOUS WATER SYSTEM	44	Act	B		5	10	Douglas
02096	REIBER/SKELTON WATER SYSTEM	44	Act	B		3	6	Douglas
AB129	Riesling	44	Act	B		6	18	Douglas
AB334	Sand Canyon	44	Act	B		3	6	Douglas
02095	SANFORD SHORES WATER SYSTEM	44	Act	B		10	24	Douglas
32274	SCHWANTEE ORCHARD	44	Act	B		3	6	Douglas
AB332	Semillon	44	Act	B		6	1	Douglas
03997	SIERRA BEACH ASSOCIATION	44	Act	B		4	10	Douglas
06496	SIMON, DOUGLAS	44	Act	B		3	8	Douglas
02596	SUNRISE COVE	44	Act	B		3	10	Douglas
03672	T. R. MILLER ORCHARDS	44	Act	B		5	9	Douglas
02100	TALBOT WATER WORKS	44	Act	B		2	10	Douglas
02882	VAN WINKLE ORCHARDS INC	44	Act	B		4	10	Douglas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AA605	ZINFANDEL WATER SYSTEM	44	Act	B		5	10	Douglas
07342	STENNES ORCHARD	44	Act	B		3	5	Okanogan
07328	ZAHN, BRUCE ORCHARD	44	Act	B		14	3	Okanogan
03565	ALLEN/RUBIN WATER SYSTEM	45	Act	B		2	7	Chelan
51819	BAGWELL WATER SUPPLY	45	Act	B		7	18	Chelan
01809	BAKER/BOYCE WATER SYSTEM	45	Act	B		3	0	Chelan
05318	BANGSUND WATER SYSTEM	45	Act	B		4	9	Chelan
05662	BDS WATER SYSTEM	45	Act	B		4	19	Chelan
AA185	BEECHER HILL HOUSE	45	Act	B		1	2	Chelan
02058	BERGREN SHORT PLAT 1769	45	Act	B		3	8	Chelan
FS051	BLACKPINE CREEK HORSE CAMP	45	Act	B		1	0	Chelan
HD045	BLEWETT PASS MAIN SITE	45	Act	B		2	1	Chelan
06804	BLUE GROUSE LODGE	45	Act	B		1	0	Chelan
05943	BOSWELL & SONS	45	Act	B		1	0	Chelan
06352	BRADSHAW NATAPOC WATER SYSTEM	45	Act	B		2	3	Chelan
76634	BRENDER CANYON WATER WORKS	45	Act	B		9	24	Chelan
FS065	BRIDGE CREEK CAMPGROUND	45	Act	B		1	0	Chelan
AA467	Brunner Orchards	45	Act	B		1	3	Chelan
02458	BRUYA WATER SYSTEM	45	Act	B		2	6	Chelan
06132	BUSH SS #2337 & 2338	45	Act	B		6	18	Chelan
05874	CANDLE WATER SYSTEM	45	Act	B		2	5	Chelan
22267	CARVITTO	45	Act	B		3	4	Chelan
11486	CASCADE MEADOWS	45	Act	B		2	3	Chelan
04603	CASHMERE HEIGHTS B SYSTEM	45	Act	B		3	9	Chelan
04521	CEDAR CREST WATER SYSTEM	45	Act	B		3	10	Chelan
08104	CHALET ACRES #1 COOP WATER RD CORP	45	Act	B		9	2	Chelan
56377	CHALET ACRES 2 COMM WATER CORP	45	Act	B		5	2	Chelan
12214	CHALET PARK	45	Act	B		13	0	Chelan
FS097	CHATTER CREEK CAMPGROUND	45	Act	B		4	0	Chelan
AB109	Chelan County Public Works	45	Act	B		1	0	Chelan
06909	CHIPMAN WATER SYSTEM	45	Act	B		6	15	Chelan
07102	CHIPMAN, LANCE WATER ASSN	45	Act	B		7	12	Chelan
AB216	Chiwaukum Ridge Estates	45	Act	B		2	0	Chelan
FS018	CHIWAWA HORSE CAMP	45	Act	B		1	0	Chelan
86135	CHRISTENSEN RANCH INC	45	Act	B		2	5	Chelan
AA853	Coffee Castle & Creekside Chateau	45	Act	B		1	2	Chelan
02460	COLIN SHORT PLAT	45	Act	B		3	8	Chelan
37969	COLLINS, DARRELL	45	Act	B		5	4	Chelan
00540	COPE WATER SYSTEM	45	Act	B		3	12	Chelan
01061	CORNING WATER SYSTEM #2	45	Act	B		4	12	Chelan
22889	COX WATER SYSTEM	45	Act	B		4	10	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
08295	CRIMINALE CHELAN COUNTY LLC	45	Act	B		2	2	Chelan
54725	CRM ORCHARDS INC	45	Act	B		4	13	Chelan
00928	CRYSTAL WATERS WATER SYSTEM	45	Act	B		9	7	Chelan
03546	CUNNINGHAM, CARL WATER SYSTEM	45	Act	B		8	5	Chelan
AA840	Deer Meadows #1	45	PreAct	B		0	0	Chelan
AA841	Deer Meadows #2	45	PreAct	B		0	0	Chelan
08149	DEMPSEY LARRY WATER SYSTEM	45	Act	B		4	8	Chelan
06878	DIRTY FACE RANCH	45	Act	B		5	10	Chelan
34790	DODRILL WATER SYSTEM	45	Act	B		4	10	Chelan
30421	DOLMAN PLAT	45	Act	B		4	13	Chelan
20095	DRYDEN ORCHARD	45	Act	B		13	14	Chelan
00958	DUNCAN WTR SYSTEM	45	Act	B		5	13	Chelan
FS213	EIGHT MILE CAMPGROUND 1	45	Act	B		1	0	Chelan
FS214	EIGHT MILE CAMPGROUND 2	45	Act	B		1	0	Chelan
FS212	EIGHT MILE CAMPGROUND EAST	45	Act	B		1	0	Chelan
FS744	EIGHT MILE CG WEST	45	Act	B		1	0	Chelan
02183	FEATHERWINDS BED & BREAKFAST	45	Act	B		4	4	Chelan
01818	FLAGEL WATER SYSTEM	45	Act	B		4	12	Chelan
13147	FLEMING WATER SYSTEM	45	Act	B		3	8	Chelan
05487	FORREST-BACCUS COMMUNITY W.S.	45	Act	B		3	6	Chelan
00892	FOSTER WATER SYSTEM	45	Act	B		3	7	Chelan
AA091	FOX RD WATER ASSN	45	Act	B		6	13	Chelan
04046	Fox Road Water Users Assoc #2723	45	Act	B		4	14	Chelan
02101	FRITZ WATER SYSTEM	45	Act	B		3	8	Chelan
AA145	G-B PROPERTIES WWW 2	45	Act	B		3	0	Chelan
24631	GEIGER, FRANK AND ERNA	45	Act	B		4	3	Chelan
FS300	GLACIER VIEW CG/LAKE WENATCHEE RD	45	Act	B		1	0	Chelan
FS318	GOOSE CREEK CAMPGROUND 1	45	Act	B		1	0	Chelan
FS317	GOOSE CREEK CAMPGROUND 2	45	Act	B		1	0	Chelan
06875	GRAVES WATER SYSTEM	45	Act	B		3	10	Chelan
26694	GREENE, JAMES A. WATER SYSTEM	45	Act	B		4	5	Chelan
47052	Griffiths, Darel	45	Act	B		3	8	Chelan
30075	GRUBB & GRUBB	45	Act	B		2	1	Chelan
07235	GRUNEWALD GUILD	45	Act	B		3	2	Chelan
02584	GRUNEWALD GUILD CHALET	45	Act	B		2	5	Chelan
41777	HEINS, LARRY WATER SYSTEM	45	Act	B		2	5	Chelan
51815	HESLER WATER SYSTEM	45	Act	B		2	5	Chelan
02129	HOLLADAY/BATES WATER SYSTEM	45	Act	B		3	5	Chelan
04315	HOME PLACE - BARDIN FARMS	45	Act	B		6	15	Chelan
32287	HUBER, DONALD P.	45	Act	B		2	8	Chelan
41114	HUGHES/MAIN WATER SYSTEM	45	Act	B		2	5	Chelan



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
47038	HUTCHENS, GARY R.	45	Act	B		2	3	Chelan
FS387	IDA CREEK CAMPGROUND	45	Act	B		1	0	Chelan
04884	IDLEWILD	45	Act	B		5	13	Chelan
35690	INGALLS CREEK LODGE	45	Act	B		2	1	Chelan
AA256	INN VIENNA WOODS	45	Act	B		2	2	Chelan
06876	INT L CHURCH OF FOURSQUARE GOSPEL	45	Act	B		1	0	Chelan
31627	IRWIN TWO RIVERS WATER ASSN	45	Act	B		5	17	Chelan
AB378	JAMES JERRY WATER SYSTEM	45	PreAct	B		1		Chelan
FS430	JOHNNY CREEK CAMPGROUND 0	45	Act	B		1	0	Chelan
FS431	JOHNNY CREEK CAMPGROUND 1	45	Act	B		1	0	Chelan
FS432	JOHNNY CREEK CAMPGROUND 2	45	Act	B		1	0	Chelan
FS433	JOHNNY CREEK CAMPGROUND 3	45	Act	B		1	0	Chelan
00164	JONES, BOSCOW & LITTLE WATER SYSTEM	45	Act	B		3	8	Chelan
02461	JUST PLAIN GROCERY & GAS	45	Act	B		1	0	Chelan
03210	KIMBER ROAD PROPERTIES	45	Act	B		4	8	Chelan
01813	KIMMERLY SHORT PLAT	45	Act	B		6	14	Chelan
02838	KINCAID, SCHMIDT & ULERY WTR. SYS.	45	Act	B		5	10	Chelan
42915	KNOX NEIGHBORHOOD WATER SYSTEM	45	Act	B		6	22	Chelan
56464	KYNER SHORT PLAT	45	Act	B		3	8	Chelan
FS489	LAKE CREEK CAMPGROUND 2	45	Act	B		1	0	Chelan
15140	LAKE WENATCHEE FRIENDSHIP LODGE LLC	45	Act	B		1	0	Chelan
06671	LAKE WENATCHEE RECREATION CLUB	45	Act	B		1	0	Chelan
00165	LARSON WATER SYSTEM	45	Act	B		2	4	Chelan
29751	LAUREL HILL SERVICE ASSOCIATION	45	Act	B		11	24	Chelan
07460	LEAVENWORTH OUTFITTERS	45	Act	B		7	1	Chelan
05101	LOCUST LANE WATER ASSOCIATION	45	Act	B		6	15	Chelan
06910	MAIERS WATER SYSTEM	45	Act	B		6	15	Chelan
03211	MAJESKA ACRES HOA #1	45	Act	B		8	22	Chelan
03212	MAJESKA ACRES HOA #2	45	Act	B		8	22	Chelan
01843	MCLEOD WATER SYSTEM	45	Act	B		3	6	Chelan
AB333	McMahon SS 2236	45	Act	B		2	0	Chelan
07751	MELLON WELL	45	Act	B		2	5	Chelan
06129	MICHAELS ACRES WATER SYSTEM	45	Act	B		1	4	Chelan
33164	MILLER-LOPEMAN WTR SYSTEM	45	Act	B		3	8	Chelan
02143	MILLER-PREY WATER SYSTEM	45	Act	B		3	9	Chelan
04834	MILNER SHORT PLAT 2453	45	Act	B		3	9	Chelan
06442	MISMAS WATER SYSTEM	45	Act	B		3	10	Chelan
AA468	Mission Creek Heights	45	Act	B		3	18	Chelan
06908	MORGAN WELL	45	Act	B		1	0	Chelan
02085	MORGANS WATER SYSTEM	45	Act	B		4	8	Chelan
19921	MORRISON & WILLS	45	Act	B		2	5	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
22896	MORSE, FRANK	45	Act	B		2	5	Chelan
29701	MOUNTAIN HOME LODGE	45	Act	B		3	3	Chelan
04044	MOUNTAIN SPRINGS LODGE	45	Act	B		4	3	Chelan
56477	MUSSELWHITE WATER SYSTEM	45	Act	B		2	5	Chelan
24494	NASON GARDENS COMMUNITY WATER ASSN	45	Act	B		4	11	Chelan
06763	NEETHER WATER SYSTEM	45	Act	B		2	2	Chelan
06245	NEIR, DAVE WATER SYSTEM	45	Act	B		3	7	Chelan
08147	NIEDERBAYERN WATER SYSTEM	45	Act	B		1	2	Chelan
00268	NORCO WATER SYSTEM	45	Act	B		2	5	Chelan
01216	NORGARD WATER SYSTEM	45	Act	B		3	9	Chelan
05584	NORTH SHORE PARK	45	Act	B		3	2	Chelan
07421	NOWA #1	45	Act	B		4	10	Chelan
07422	NOWA #2	45	Act	B		4	10	Chelan
02049	NOYES, STEPHEN SP #2265	45	Act	B		4	7	Chelan
08078	OBERFRANKEN WATER SYSTEM	45	Act	B		1	3	Chelan
63380	OLD YODELIN LODGE	45	Act	B		12	3	Chelan
05659	OLMSTEAD WATER SYSTEM	45	Act	B		4	12	Chelan
56451	OLSSON, HAROLD	45	Act	B		3	8	Chelan
02575	PACE WATER SYSTEM	45	Act	B		3	12	Chelan
03642	PACIFIC NW COMMODITIES	45	Act	B		4	10	Chelan
02792	PATON #2 WATER SYSTEM	45	Act	B		3	8	Chelan
01065	PATON WATER SYSTEM	45	Act	B		2	6	Chelan
01814	PEAR TREE COURT	45	Act	B		7	20	Chelan
04244	PENSION ADENBLUME WATER SYSTEM	45	Act	B		2	2	Chelan
02867	PINE RIVER RANCH BED & BREAKFAST	45	Act	B		3	2	Chelan
23514	PINKERTON - BULMER	45	Act	B		3	8	Chelan
AA146	Plain Community Church	45	Act	B		4	4	Chelan
06911	POWERS WATER SYSTEM	45	Act	B		6	15	Chelan
00824	RAGGIO WATER SYSTEM	45	Act	B		2	4	Chelan
06799	RAM WATER SYSTEM	45	Act	B		3	4	Chelan
02098	RAMIRIZ WATER SYSTEM	45	Act	B		3	7	Chelan
AA357	RAYFIELD-MARSON	45	Act	B		1	0	Chelan
71450	RAYROCK SPRINGS	45	Act	B		4	5	Chelan
02748	RED TAIL CANYON FARM	45	Act	B		3	3	Chelan
06805	REIMAN WATER SYSTEM	45	Act	B		5	9	Chelan
00893	RITZ WATER SYSTEM	45	Act	B		3	6	Chelan
AA465	RIVER RIDERS	45	Act	B		2	1	Chelan
01181	ROACH SHORT PLAT	45	Act	B		4	12	Chelan
FS795	ROCK CREEK G.S./FINNER CREEK CG	45	Act	B		1	0	Chelan
FS800	ROCK ISLAND CAMPGROUND (MAIN)	45	Act	B		1	0	Chelan
FS801	ROCK ISLAND CAMPGROUND (SOUTH)	45	Act	B		1	0	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
FS802	ROCK ISLAND CG UPPER	45	Act	B		1	0	Chelan
72215	ROHRBACH, HAUS	45	Act	B		4	8	Chelan
01060	ROSEBROOK WATER SYSTEM	45	Act	B		4	12	Chelan
01763	RUST-BRYANT, MAUREEN	45	Act	B		4	10	Chelan
04496	SANDGREN WATER SYSTEM	45	Act	B		4	8	Chelan
AA121	SCHWABEN	45	Act	B		1	2	Chelan
02392	SCOTTISH LAKES NOMAD CAMPS	45	Act	B		2	0	Chelan
07782	SENSENEY ORCHARD	45	Act	B		4	10	Chelan
34814	SITES SHORT PLAT COMMUNITY WELL	45	Act	B		3	8	Chelan
80410	SLOTH CREEK	45	Act	B		6	15	Chelan
80540	SMITH ORCHARD	45	Act	B		3	8	Chelan
01776	SMITH, CHARLES	45	Act	B		3	8	Chelan
01453	SMITH, FRED	45	Act	B		4	10	Chelan
47026	SMITH, JOHN B	45	Act	B		3	8	Chelan
05981	SMITTY S WORLD FAMOUS FRUIT STAND	45	Act	B		2	5	Chelan
83395	SPRINGDALE ORCHARDS DOMESTIC WATER	45	Act	B		8	20	Chelan
AA463	Spromberg Well	45	Act	B		2	3	Chelan
03559	STANTON, JACK WATER SYSTEM	45	Act	B		3	14	Chelan
07042	STEMILT CREEK RD SOUTH	45	Act	B		4	8	Chelan
AA924	Stemilt Creek Well #3	45	Act	B		3	5	Chelan
84065	STEMM, AL	45	Act	B		5	13	Chelan
02059	STEVENS CANYON AQUA MANAGEMENT	45	Act	B		6	15	Chelan
HD760	STEVENS PASS MAINTENANCE SITE	45	Act	B		4	5	Chelan
84293	STEWART RANCH	45	Act	B		8	8	Chelan
01824	Stonewater Ranch	45	Act	B		7	24	Chelan
87187	TARVER SPECKER HEISNER	45	Act	B		4	10	Chelan
AB450	The Ranch At Plains	45	Act	B		5	1	Chelan
12987	TIERRA INC	45	Act	B		12	3	Chelan
AB168	Timmermans	45	Act	B		2	8	Chelan
56396	TOWN, MONTE	45	Act	B		2	5	Chelan
55876	TREMME, FLOYD	45	Act	B		2	5	Chelan
BP570	VALHALLA SUBSTATION	45	Act	B		1	0	Chelan
90969	VALLEY COTTAGE MOTEL	45	Act	B		9	3	Chelan
06724	VALLEY VIEW ESTATES WATER	45	Act	B		6	10	Chelan
05752	VAZQUEZ, MICHAEL WATER SYSTEM	45	Act	B		3	15	Chelan
04252	WARM SPRINGS INN	45	Act	B		1	2	Chelan
04493	WEBSTER WAY	45	Act	B		4	17	Chelan
08148	WEISSBADEN	45	Act	B		1	2	Chelan
05034	WILSON COMMUNITY WATER SYSTEM	45	Act	B		4	10	Chelan
98030	WOLFE ADDITION WATER USERS	45	Act	B		9	23	Chelan
07468	WWW II	45	Act	B		1	0	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01007	YAKSUM CANYON WATER SYSTEM	45	Act	B		5	22	Chelan
34090	YAXON HILLS	45	Act	B		4	10	Chelan
05467	YONAKA/SCAMAHORN WATER SYSTEM	45	Act	B		3	6	Chelan
04495	YONKIN - BARDIN FARMS	45	Act	B		9	20	Chelan
47059	ZUFALL	45	Act	B		1	2	Chelan
10355	C&O ORCHARDS	45	Act	B		5	15	Douglas
05154	MCRAE, LEO	45	Act	B		3	10	Douglas
02585	BROOKS, EDWARD WATER SYSTEM	46	Act	B		4	9	Chelan
05974	CENTRAL WA HOLINESS ASSN CAMP	46	Act	B		6	0	Chelan
19914	COOPERS CAFE	46	Act	B		1	0	Chelan
FS139	COTTONWOOD 1	46	Act	B		1	0	Chelan
FS138	COTTONWOOD 2	46	Act	B		1	0	Chelan
FS137	COTTONWOOD GUARD STATION	46	Act	B		1	0	Chelan
02130	CURRIT-MCCUBBIN WATER SYSTEM	46	Act	B		9	24	Chelan
FW102	ENTIAT NATIONAL FISH HATCHERY	46	Act	B		5	7	Chelan
06133	ENTIAT RIVER BEND 1	46	Act	B		3	9	Chelan
FS277	FOX CREEK CAMPGROUND	46	Act	B		1	0	Chelan
31465	HARRIS ORCHARD CO	46	Act	B		4	8	Chelan
03382	JENNE WATER SYSTEM	46	Act	B		3	12	Chelan
FS488	LAKE CREEK CAMPGROUND 1	46	Act	B		1	0	Chelan
02841	NAUMES HOME RANCH	46	Act	B		5	10	Chelan
FS693	NORTH FORK CAMPGROUND	46	Act	B		1	0	Chelan
34841	OLD RIVER ROAD WATER SYSTEM	46	Act	B		4	8	Chelan
FS742	PINE FLAT CAMPGROUND	46	Act	B		1	0	Chelan
02361	PRESTON FALLS RECREATION TRACTS	46	Act	B		13	9	Chelan
06734	RAINS SHORT PLAT 1	46	Act	B		3	6	Chelan
06735	RAINS SHORT PLAT 2	46	Act	B		4	8	Chelan
07109	RIVERWOOD WATER	46	Act	B		2	2	Chelan
67605	ROBISON TRACT	46	Act	B		3	5	Chelan
FS840	SILVER FALLS CAMPGROUND 1	46	Act	B		1	0	Chelan
FS842	SILVER FALLS CAMPGROUND 2	46	Act	B		1	0	Chelan
FS839	SILVER FALLS GUARD STATION	46	Act	B		1	0	Chelan
FS880	STELIKO WORK CENTER	46	Act	B		6	0	Chelan
03381	TYEE RIDGE ENTIAT RIVER ESTATES	46	Act	B		3	12	Chelan
06762	DESERT SHORES WATER WORKS	46	Act	B		9	24	Douglas
03013	TURTLE ROCK EAST	46	Act	B		4	10	Douglas
04736	MONTINI ADDITION #1	46	Act	B		4	12	Grant
04035	ADAMS, PHILIP WATER SYSTEM	47	Act	B		3	8	Chelan
AA088	AGNEW, TIM	47	Act	B		6	0	Chelan
01578	ALAMO ORCHARD WATER SYSTEM	47	Act	B		2	4	Chelan
07365	ALAMO ORCHARDS - CASHMERE	47	Act	B		7	5	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07268	APPLE EYE ORCHARDS INC	47	Act	B		4	4	Chelan
AB210	Benson Vineyards	47	Act	B		1		Chelan
NP554	BROWNFIELD	47	Act	B		2	4	Chelan
AB353	Buck Water System	47	Act	B		4	8	Chelan
05861	CARROLLS COULES	47	Act	B		7	18	Chelan
AA477	CHELAN RANCH WATER ASSOCIATION	47	Act	B		5	12	Chelan
12365	CHELAN RED ORCHARD INC	47	Act	B		4	5	Chelan
07266	CM HOLTZINGER - CHELAN RANCH	47	Act	B		11	5	Chelan
17345	COLLINS WATER SYSTEM	47	Act	B		9	3	Chelan
NP130	COMPANY CREEK	47	Act	B		4	8	Chelan
05023	FIRCREST WATER	47	Act	B		3	8	Chelan
29045	GRANITE FALLS COMMUNITY BEACH ASSN	47	Act	B		9	1	Chelan
29055	GRANITE GLENN	47	Act	B		12	22	Chelan
39101	H.R. WATER SYSTEM	47	Act	B		2	5	Chelan
32301	HENDERSON HIGHLANDS	47	Act	B		6	13	Chelan
03227	HILLCREST	47	Act	B		4	10	Chelan
00959	HOLDEN VILLAGE BED & BREAKFAST	47	Act	B		2	3	Chelan
32401	HUBER WELL	47	Act	B		2	5	Chelan
07267	L S PARTNERS	47	Act	B		10	6	Chelan
08257	LAKE CHELAN AIRPORT	47	Act	B		10	9	Chelan
00485	LAKEVIEW SHORT PLAT WATER SYSTEM	47	Act	B		3	4	Chelan
56019	LAST RESORT CONDOMINIUM	47	Act	B		4	10	Chelan
FS600	LUCERNE BAR	47	Act	B		2	0	Chelan
NP575	MAINTENANCE AREA	47	Act	B		7	0	Chelan
02137	MARCI S CATERING	47	Act	B		2	5	Chelan
07467	MC DUFFY WATER SYSTEM	47	Act	B		3	9	Chelan
02131	MCCLELLAN WATER SYSTEM	47	Act	B		4	14	Chelan
00890	MCCULLEY WATER SYSTEM	47	Act	B		1	3	Chelan
08435	NORTH CASCADES SPORTSMANS CLUB	47	Act	B		1	0	Chelan
08150	OBERBAYERN	47	Act	B		1	2	Chelan
04735	PINECREST WATER SYSTEM	47	Act	B		4	10	Chelan
07265	PRICE AND PASLAY ORCHARD	47	Act	B		8	4	Chelan
06667	RAM INVESTMENTS LLC	47	Act	B		9	14	Chelan
NP011	ROBERTSON WATER SYSTEM	47	Act	B		2	2	Chelan
05281	SANTANA RANCH	47	Act	B		9	24	Chelan
07354	SHELL & SHELL ORCHARDS INC	47	Act	B		12	8	Chelan
77668	SEVEN STAR ORCHARD	47	Act	B		4	4	Chelan
04382	SHORT PLAT 2676 WATER SYSTEM	47	Act	B		3	8	Chelan
07288	SIKES ORCHARDS INC	47	Act	B		2	2	Chelan
81100	SNOW CREEK WATER SYSTEM	47	Act	B		14	22	Chelan
FS108	SNOWBERRY BOWL CG - CHELAN RD	47	Act	B		1	0	Chelan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
47066	SNY - BAR	47	Act	B		2	5	Chelan
FS863	SOUTH NAVARRE CG	47	Act	B		10		Chelan
AA180	Star Motors	47	Act	B		3	9	Chelan
51884	STEHEKIN SCHOOL	47	Act	B		10		Chelan
84015	STEHEKIN RIVER RESORT	47	Act	B		9	23	Chelan
05106	SUN CHELAN WATER SYSTEM	47	Act	B		5	12	Chelan
03673	THOMPSON DEVELOPMENT	47	Act	B		3	14	Chelan
00591	TODD WATER SYSTEM	47	Act	B		3	8	Chelan
03213	VILLAGE AT FIELDS POINT	47	Act	B		5	5	Chelan
NP920	WEAVER POINT	47	Act	B		2	2	Chelan
AA179	WORDEN ORCHARDS	47	Act	B		6	18	Chelan
FW021	COLUMBIA BASIN HATCHERY	47	Act	B		5	6	Grant
07962	LAKESHORES WEST 3	47	Act	B		5	5	Grant
03568	LINK, JAMES H. WATER SYSTEM		Act	B		2	7	Klickitat
07278	ALAMO ORCHARD CO - PATEROS	48	Act	B		13	2	Okanogan
34229	ALTA VIEW SUB DIVISION	48	Act	B		10	4	Okanogan
38649	ALTAS WEST BEACH WATER SYSTEM	48	Act	B		3	9	Okanogan
34603	AMY S BED & BREAKFAST	48	Act	B		2	3	Okanogan
39501	BARRINGER WATER SYSTEM	48	Act	B		2	5	Okanogan
00361	BEAR CREEK RANCH WATER SYSTEM	48	Act	B		1	1	Okanogan
05314	BEHRENS METHOW RIVER WATER ASSN	48	Act	B		3	5	Okanogan
AA958	Blackjack	48	Act	B		4	1	Okanogan
AB214	Blackjack PD Tract 2	48	Act	B		9	12	Okanogan
AB213	Blackjack PD Tract 3	48	Act	B		5	14	Okanogan
00085	BROWN S FARM WATER SYSTEM	48	Act	B		1	3	Okanogan
05020	BROWN, GARY WATER SYSTEM	48	Act	B		2	2	Okanogan
00190	BURKE LEHMAN WATER SYSTEM	48	Act	B		6	15	Okanogan
01262	BURKE-LEHMAN ORCHARD TRACTS #3	48	Act	B		5	15	Okanogan
30231	BURKE-LEHMAN WATER USERS ASSN	48	Act	B		8	18	Okanogan
00285	BURKHART RANCH PD	48	Act	B		20		Okanogan
07915	CAMPBELL SHORT PLAT	48	Act	B		3	5	Okanogan
34201	CARLTON GENERAL STORE	48	Act	B		2	2	Okanogan
39281	CASCADE SERVICES SUBDIVISION	48	Act	B		6	3	Okanogan
06169	CHAUNDY, SUSAN WATER SYSTEM	48	Act	B		2	2	Okanogan
05214	CHECHAQUO RANCH #4	48	Act	B		9	23	Okanogan
05206	CHECHAQUO RANCH 1A	48	Act	B		9	23	Okanogan
05209	CHECHAQUO RANCH 1B	48	Act	B		9	20	Okanogan
05211	CHECHAQUO RANCH 2	48	Act	B		9	23	Okanogan
05212	CHECHAQUO RANCH 3	48	Act	B		9	23	Okanogan
00084	CHEWACK NORTH WATER SYSTEM	48	Act	B		2	5	Okanogan
42143	CHEWACK RIVER RANCH	48	Act	B		6	5	Okanogan



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
FS112	CHEWUCH CG - METHOW RD	48	Act	B		5	1	Okanogan
04619	CHEWUCH RIVER GUEST HOUSE	48	Act	B		1	0	Okanogan
41457	CHOKECHERRY INN	48	Act	B		2	3	Okanogan
FS142	COTTONWOOD CG - TONASKET RD	48	Act	B		1	0	Okanogan
06470	COTTONWOOD COTTAGE	48	Act	B		1	0	Okanogan
05299	COUNTRY TOWN COFFEE SHOP	48	Act	B		1	0	Okanogan
32101	COUNTRY TOWN MOTEL & RV	48	Act	B		10	2	Okanogan
03718	CRAMER CABIN WATER SYSTEM	48	Act	B		1	0	Okanogan
00286	CROSBY PD WATER SYSTEM	48	Act	B		2	0	Okanogan
27701	DAMMANN BED AND BREAKFAST	48	Act	B		2	2	Okanogan
51114	DEER RUN PUD WATER SYSTEM	48	Act	B		5	10	Okanogan
34494	DEVOIR WATER SYSTEM	48	Act	B		4	10	Okanogan
00345	DI FRANCO-CRANE-MANLEY WATER SYSTEM	48	Act	B		3	0	Okanogan
34041	EAGLE PINE CHALETS	48	Act	B		5	3	Okanogan
FS107	EIGHTMILE RANCH - METHOW RD	48	Act	B		1	0	Okanogan
07980	FOSTER GUEST RANCH #1	48	Act	B		4	8	Okanogan
08036	FOSTER GUEST RANCH #2	48	Act	B		3	2	Okanogan
08037	FOSTER GUEST RANCH #3	48	Act	B		13	2	Okanogan
00362	FOUR SUNS PD WATER SYSTEM	48	Act	B		4	10	Okanogan
02578	FOX FAMILY WELL	48	Act	B		1	0	Okanogan
00191	GOAT CREEK NORTH #1 WATER SYSTEM	48	Act	B		1	1	Okanogan
00193	GOAT CREEK NORTH #3 WATER SYSTEM	48	Act	B		1	0	Okanogan
AB099	Goat Peak	48	Act	B		11	2	Okanogan
03947	GOAT WALL CABIN	48	Act	B		1	0	Okanogan
00592	GOLD CREEK ACRES WATER SYSTEM	48	Act	B		7	15	Okanogan
41090	GREENE & ROSSER WATER SYSTEM	48	Act	B		2	5	Okanogan
06356	GRIZZLY MOUNTAIN HOMESTEAD	48	Act	B		1	0	Okanogan
00463	HAWLEY/BEKENDAM WATER SYSTEM	48	Act	B		2	8	Okanogan
41444	HEATH SHORT PLAT	48	Act	B		4	10	Okanogan
00597	HEATH SHORT PLAT WATER SYSTEM	48	Act	B		3	1	Okanogan
32630	HIDDEN CITY MOBILE HOME	48	Act	B		8	20	Okanogan
02177	HOMESTEAD WATER SYSTEM	48	Act	B		2	5	Okanogan
06354	JOYBELL GUEST HOUSE	48	Act	B		1	0	Okanogan
02005	KARRO WATER SYSTEM	48	Act	B		3	1	Okanogan
42059	KING, MARION WATER SYSTEM	48	Act	B		4	10	Okanogan
00598	KOCH WATER SYSTEM	48	Act	B		2	2	Okanogan
00161	KOKLAHANIE WATER SYSTEM	48	Act	B		2	0	Okanogan
00308	L-9 WATER SYSTEM	48	Act	B		3	5	Okanogan
87825	LAKESIDE BBQ & STORE	48	Act	B		3	8	Okanogan
07658	LAST CHANCE LODGE PD 1	48	Act	B		2	2	Okanogan
07659	LAST CHANCE LODGE PD 2	48	Act	B		2	2	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
39579	LEDER SHORT PLAT WATER SYSTEM	48	Act	B		2	5	Okanogan
47127	LIBERTY WOODLANDS	48	Act	B		8	4	Okanogan
04696	LONESOME DOVE	48	Act	B		1	0	Okanogan
05909	LOS PALOS BED & BREAKFAST	48	Act	B		1	0	Okanogan
FS598	LOUP LOUP & JR CG - METHOW RD	48	Act	B		6	0	Okanogan
06353	MAYBELL GUEST HOUSE LLC	48	Act	B		1	0	Okanogan
30333	MAZAMA COUNTRY INN	48	Act	B		1	0	Okanogan
AB355	Mazama Springs	48	Act	B		4	1	Okanogan
AB365	Mazama Trailhead PUD	48	Act	B		9	1	Okanogan
00287	Methow River Ranch	48	Act	B		1	2	Okanogan
06957	METHOW VALLEY AIRPORT TRADING CTR	48	Act	B		1	0	Okanogan
03566	METHOW VALLEY ESTATES	48	Act	B		2	6	Okanogan
34214	METHOW VALLEY MEATS	48	Act	B		2	3	Okanogan
04685	METHOW VALLEY UNITED METHODIST	48	Act	B		2	3	Okanogan
00929	MICHAEL, SALLY WATER SYSTEM	48	Act	B		2	5	Okanogan
00159	MOUNTAIN VALLEY PD #91	48	Act	B		1	1	Okanogan
07324	NEFF S ALTA VISTA ORCHARDS INC	48	Act	B		7	8	Okanogan
00729	NEWITT WATER SYSTEM	48	Act	B		3	6	Okanogan
00908	NICKELL ORCHARDS HOME WELL	48	Act	B		4	12	Okanogan
27674	NORTH CASCADES BASECAMP	48	Act	B		3	3	Okanogan
04381	OKANOGAN COUNTY ELECTRIC CO-OP INC	48	Act	B		1	0	Okanogan
62402	OUTWARD BOUND WEST	48	Act	B		1	0	Okanogan
00168	PATTERSON WATER SYSTEM	48	Act	B		3	5	Okanogan
62363	PINEY WOODS PHD	48	Act	B		6	3	Okanogan
FS752	POPLAR FLAT CG - METHOW RD	48	Act	B		4	0	Okanogan
62664	QUAKING ASPEN WATER SYSTEM #1	48	Act	B		2	4	Okanogan
51501	RAINBOW PINES HELIPORT	48	Act	B		1	0	Okanogan
00189	RANCHO HELL PD	48	Act	B		4	10	Okanogan
AB403	Riverbend Associates	48	Act	B		6	1	Okanogan
00163	RIVERFRONT PARTNERS PUD	48	Act	B		2	5	Okanogan
56316	ROCK CREEK WELL	48	Act	B		4	10	Okanogan
34171	ROCKING R BED AND BREAKFAST	48	Act	B		1	3	Okanogan
00288	ROUGE RANCH WATER SYSTEM	48	Act	B		1	0	Okanogan
FS812	SALMON MEADOWS CG - TONASKET RD	48	Act	B		1	0	Okanogan
00289	SHUCK RANCH WATER SYSTEM	48	Act	B		2	5	Okanogan
00639	SORG SHORT PLAT WATER SYSTEM	48	Act	B		2	6	Okanogan
00162	STILLWATER RANCH PD	48	Act	B		1	0	Okanogan
00635	STOREY WATER SYSTEM	48	Act	B		4	12	Okanogan
29906	STUD HORSE MOUNTAIN WATER SYSTEM	48	Act	B		9	23	Okanogan
AB100	Tawls Family Partnership	48	PreAct	B		0	0	Okanogan
05185	TICE RANCH #1	48	Act	B		2	2	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
05186	TICE RANCH #2	48	Act	B		1	0	Okanogan
00158	Timberline Meadows PD #92	48	Act	B		7	5	Okanogan
07327	TOP RED ORCHARD INC	48	Act	B		11	0	Okanogan
00266	TWIN LAKES 1	48	Act	B		9	7	Okanogan
31821	TWISP RIVER SKY RANCH WATER SYSTEM	48	Act	B		10	10	Okanogan
HD891	TWISP: MAINTENANCE SITE	48	Act	B		1	0	Okanogan
05435	VALLEY VIEW B & B	48	Act	B		2	2	Okanogan
04427	VOGLI GUEST LODGE	48	Act	B		2	1	Okanogan
07325	WADDELL RANCH	48	Act	B		8	7	Okanogan
01177	WALLEY SHORT PLAT WATER SYSTEM	48	Act	B		2	6	Okanogan
FS973	WAR CREEK CG - METHOW RD	48	Act	B		1	0	Okanogan
AB415	Wesola Polana	48	Act	B		5	6	Okanogan
41790	WESTAR RETREAT	48	Act	B		2	0	Okanogan
51614	WILSON WATER SYSTEM	48	Act	B		2	5	Okanogan
00169	WINDHAVEN WATER SYSTEM #1	48	Act	B		2	0	Okanogan
00290	WINDHAVEN WATER SYSTEM #2	48	Act	B		2	0	Okanogan
FW975	Winthrop National Fish Hatchery	48	Act	B		6	12	Okanogan
04876	WOLF HOLLOW CABIN WATER SYSTEM	48	Act	B		1	0	Okanogan
56610	WOLF RIDGE RANCH	48	Act	B		6	0	Okanogan
00267	WOLLEY WATER SYSTEM	48	Act	B		11	23	Okanogan
07426	ZAHN, DOUGLAS ORCHARDS	48	Act	B		2	8	Okanogan
08168	BRAKER THOMAS ORCHARD	49	Act	B		9	3	Douglas
17080	CUSTOM ORCHARD 2	49	Act	B		9	15	Douglas
45330	LAKEVIEW ORCHARDS	49	Act	B		10	18	Douglas
34151	APPLE FACTORY SMOKEHOUSE	49	Act	B		2	5	Okanogan
07397	APPLE MANAGEMENT COMPANY	49	Act	B		8	7	Okanogan
01258	ARBUCKLE WATER SYSTEM	49	Act	B		2	4	Okanogan
07805	AREVALO S WELL	49	Act	B		3	9	Okanogan
07575	ARNOLD TRACTS WATER SYSTEM	49	Act	B		4	1	Okanogan
08057	BEACH FLAT WATER SYSTEM	49	Act	B		1	3	Okanogan
FS036	BEAVER LAKE CG - TONASKET RD	49	Act	B		1	0	Okanogan
29888	BEHRMANN & HAHN	49	Act	B		2	4	Okanogan
04528	BERGH, JEFF SHORTPLAT	49	Act	B		3	12	Okanogan
FS487	BETH LAKE CG - TONASKET RD	49	Act	B		7	0	Okanogan
07100	BIRCH SPRING WATER USERS	49	Act	B		6	15	Okanogan
41703	BJS MOBILE HOME COURT WATER SYSTEM	49	Act	B		13	23	Okanogan
34616	BLACK ROAD	49	Act	B		4	10	Okanogan
FS049	BLACKPINE LAKE CG - METHOW RD	49	Act	B		6	0	Okanogan
12297	BONAPARTE BOY SCOUT CAMP	49	Act	B		13	0	Okanogan
FS059	BONAPARTE WELL 4 - TONASKET RD	49	Act	B		13	0	Okanogan
HD061	BREWSTER DOT MAINTENANCE SITE	49	Act	B		1	0	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
04519	BROOKS ACRES WATER SYSTEM	49	Act	B		1	2	Okanogan
03657	CARIBOO TRACTS WATER SYSTEM	49	Act	B		4	16	Okanogan
99410	CARLTON RESTAURANT & RV PARK	49	Act	B		13	2	Okanogan
05284	CENTRAL LANDFILL	49	Act	B		2	0	Okanogan
08379	CHESAW WATER ASSN #1	49	Act	B		9	18	Okanogan
08380	CHESAW WATER ASSN #2	49	Act	B		9	18	Okanogan
NR180	CHOPAKA LAKE CAMPGROUND	49	Act	B		1	0	Okanogan
AB371	Chris Wood Short Plat	49	Act	B		4	1	Okanogan
29376	COLD SPRINGS CAMPGROUND	49	Act	B		1	0	Okanogan
00623	CONCONULLY GENERAL STORE	49	Act	B		5	2	Okanogan
FS135	CONCONULLY VIS - TONASKET RD	49	Act	B		3	0	Okanogan
51201	COOK ORCHARD SYSTEM	49	Act	B		9	5	Okanogan
03921	COPPLE ROAD WATER SYSTEM	49	Act	B		11	10	Okanogan
AA194	CROWS NEST ACRES	49	Act	B		4	16	Okanogan
07097	CRYSTAL BROOK ESTATES	49	Act	B		4	8	Okanogan
00823	DEERING WATER SYSTEM	49	Act	B		3	3	Okanogan
05324	DILLON, CELIA	49	Act	B		3	1	Okanogan
62220	DOLGNER WATER SYSTEM	49	Act	B		5	10	Okanogan
47840	DON S MOBILE HOME COURT	49	Act	B		12	24	Okanogan
10866	DOUBLE S MEATS	49	Act	B		4	9	Okanogan
20461	DUNCKEL TRAILER PARK #1	49	Act	B		7	18	Okanogan
20462	DUNCKEL TRAILER PARK #2	49	Act	B		5	13	Okanogan
20463	DUNCKEL TRAILER PARK #3	49	Act	B		6	15	Okanogan
02186	EARL PHEASANT SHORT PLAT WTR SYSTEM	49	Act	B		2	5	Okanogan
51653	ECKLEY, BOB SHORT PLAT	49	Act	B		2	5	Okanogan
42055	ECKLEY, ROBERT WATER SYSTEM	49	Act	B		2	5	Okanogan
07707	EDEN VALLEY GUEST RANCH	49	Act	B		11	1	Okanogan
00745	ELLISFORDE CHURCH OF THE BRETHREN	49	Act	B		2	0	Okanogan
28366	FAIR WAY ACRES 2ND ADDITION	49	Act	B		2	5	Okanogan
00157	FAIRWAY ACRES 3RD ADDITION	49	Act	B		9	23	Okanogan
31960	FAIRWAY ACRES WATER SYSTEM	49	Act	B		3	8	Okanogan
FS228	FALLS CREEK CG - METHOW RD	49	Act	B		1	0	Okanogan
02526	FENISON WATER SYSTEM	49	Act	B		12	23	Okanogan
03842	FISHER, GREG WATER SYSTEM	49	Act	B		4	10	Okanogan
FS265	FLAT CG - METHOW RD	49	Act	B		1	0	Okanogan
08438	FOGGY RIVER WATER SYSTEM	49	Act	B		8	24	Okanogan
00590	GARDINIER WATER SYSTEM	49	Act	B		3	3	Okanogan
30223	GARNER-SMITH-OGILVIE	49	Act	B		3	8	Okanogan
30301	GATHERER ORCHARDS	49	Act	B		5	8	Okanogan
02257	GIBSONS NORTH FORK LODGE	49	Act	B		5	2	Okanogan
09044	GOBLE WATER SYSTEM	49	Act	B		6	15	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07360	Gold Digger Apples (Kernan)	49	Act	B		12	5	Okanogan
07316	Gold Digger Orchards (Blackler)	49	Act	B		5	5	Okanogan
AA384	Gold Digger Orchards (North Co.) #1	49	Act	B		8	9	Okanogan
AA387	Gold Digger Orchards (North Co.) #2	49	Act	B		10	0	Okanogan
03892	HAGELL, BARNETT WATER SYSTEM	49	Act	B		4	4	Okanogan
08137	HAVEN HILLS ESTATES	49	Act	B		1	2	Okanogan
38601	HENDRICK WATER SYSTEM	49	Act	B		4	10	Okanogan
07357	HI LO ORCHARD LTD	49	Act	B		8	1	Okanogan
34522	HIDDEN HILLS GUEST RANCH	49	Act	B		6	3	Okanogan
41064	HILLSIDE ACRES WATER SYSTEM	49	Act	B		9	3	Okanogan
07996	HORIZON ESTATES 1 WATER SYSTEM	49	Act	B		1	2	Okanogan
AB262	Horizon Estates II	49	Act	B		8	1	Okanogan
02242	IMHOLT SHORT PLAT	49	Act	B		4	8	Okanogan
AA464	Iron Straw	49	Act	B		6	6	Okanogan
06836	JACKS RV & MOTEL 2	49	Act	B		1	0	Okanogan
06402	JANIS RIDGE WATER ASSN	49	Act	B		1	4	Okanogan
05558	JENSEN SHORT PLAT	49	Act	B		2	5	Okanogan
51265	JENSEN WATER_SYSTEM	49	Act	B		2	5	Okanogan
04561	JOHNSON SHORT PLAT	49	Act	B		4	8	Okanogan
07323	KEYSTONE RANCH	49	Act	B		6	16	Okanogan
AA290	KEYSTONE RANCH WAREHOUSE	49	Act	B		1	0	Okanogan
01337	KINCAID WATER SYSTEM	49	Act	B		4	14	Okanogan
30236	KING-BOND WATER USERS	49	Act	B		9	23	Okanogan
06086	LAKE OSOYOOS SHORT PLAT	49	Act	B		1	4	Okanogan
45134	LAKESHORE APARTMENTS	49	Act	B		4	10	Okanogan
03893	LAKEVIEW PROPERTIES #1	49	Act	B		3	6	Okanogan
05061	LESTER FARM HOME WATER SYSTEM	49	Act	B		5	24	Okanogan
FS571	LONE FIR CG - METHOW RD	49	Act	B		7	0	Okanogan
03764	LOTTIE STREET WELL	49	Act	B		4	8	Okanogan
FS598	LOUP LOUP & JR CG - METHOW RD	49	Act	B		6	0	Okanogan
01676	MADGE SHORT PLAT	49	Act	B		3	6	Okanogan
04670	MANY LAKES MOBILE HOME PARK	49	Act	B		14	24	Okanogan
03499	MC DANIEL, ROBERT M. WATER SYSTEM	49	Act	B		4	12	Okanogan
51701	MCDANIEL WATER SYSTEM	49	Act	B		2	3	Okanogan
38753	MOLSON GRANGE AND MUSEUM	49	Act	B		2	0	Okanogan
06633	MOON SHORT PLAT	49	Act	B		4	12	Okanogan
06882	MOUNTAIN VIEW TRACTS PLAT	49	Act	B		3	11	Okanogan
51799	MUNCE WATER SYSTEM	49	Act	B		2	5	Okanogan
FS665	NCSB	49	Act	B		1	0	Okanogan
03522	NORRIS WATER SYSTEM	49	Act	B		2	4	Okanogan
34277	NYSTROM WATER SYSTEM	49	Act	B		2	2	Okanogan

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07358	OK RANCH INC	49	Act	B		14	1	Okanogan
02508	OKANOGAN CO.PUBLIC WORKS SHOP	49	Act	B		3	0	Okanogan
HD011	OKANOGAN WSDOT MAINT. FACILITY	49	Act	B		1	0	Okanogan
34184	OLIVER WATER SYSTEM	49	Act	B		2	5	Okanogan
03383	OLIVER/EDWARDS SHORT PLAT	49	Act	B		5	10	Okanogan
FS720	ORIOLE CG - TONASKET RD	49	Act	B		1	0	Okanogan
AA697	PALMER GRANDVIEW	49	Act	B		1	4	Okanogan
07441	PARISEAU ORCHARD - BRIDGEPORT CAMP	49	Act	B		5	0	Okanogan
00838	PASLAY-GOBLE WATER SYSTEM	49	Act	B		3	8	Okanogan
01036	PEACEFUL VALLEY CHURCH SCHOOL	49	Act	B		1	0	Okanogan
34193	PEONY CREEK WATER USERS	49	Act	B		9	23	Okanogan
42156	PETERSON, ELIZABETH WATER SYSTEM	49	Act	B		2	5	Okanogan
31846	PETITT ACRES WATER SYSTEM	49	Act	B		4	10	Okanogan
07096	PHILLIPS SHORT PLAT WELL	49	Act	B		1	2	Okanogan
01519	PICKING WATER SYSTEM	49	Act	B		1	3	Okanogan
FS752	POPLAR FLAT CG - METHOW RD	49	Act	B		4	0	Okanogan
06286	PRUITT, TOM SHORT PLAT	49	Act	B		1	2	Okanogan
AA037	RAINBOW VALLEY CHURCH	49	Act	B		1	0	Okanogan
02366	RANCH HOUSE WATER SYSTEM	49	Act	B		4	0	Okanogan
16253	RECTORVILLE WATER SYSTEM	49	Act	B		6	15	Okanogan
02409	REGAL - RV SYSTEM	49	Act	B		5	14	Okanogan
07318	REGAL D DULL ORCHARD	49	Act	B		7	2	Okanogan
07366	REGAL H - HOUSTON RANCH	49	Act	B		6	5	Okanogan
11639	RIVERVIEW WATER ASSOCIATION	49	Act	B		8	7	Okanogan
34510	ROBINSON SHORT PLAT	49	Act	B		2	5	Okanogan
NR658	ROCK CREEK CAMP	49	Act	B		1	0	Okanogan
56556	ROMINE WELL	49	Act	B		3	8	Okanogan
AB501	Rooster Flats Water Assn	49	Act	B		8	1	Okanogan
04578	ROSE WATER SYSTEM	49	Act	B		6	15	Okanogan
FS799	RUFFED GROUSE CG - METHOW RD	49	Act	B		1	0	Okanogan
AA223	RYAN HARVEY SHORT PLAT	49	Act	B		3	4	Okanogan
AB164	Sage Hills Shortplat	49	Act	B		4	1	Okanogan
03504	SAGE RIDGE # 1&2 WATER SYSTEM	49	Act	B		6	15	Okanogan
03503	SAGE RIDGE #3&4 WATER SYSTEM	49	Act	B		4	15	Okanogan
00803	SALMON CREEK MARKET	49	Act	B		2	2	Okanogan
07317	SAWTAIL RANCH	49	Act	B		5	5	Okanogan
02756	SCHALLER HOMES WATER SYSTEM	49	Act	B		1	2	Okanogan
77350	SEEVVIEW HEIGHTS WATER USERS CORP	49	Act	B		3	8	Okanogan
51898	SHEETS WATER SYSTEM	49	Act	B		4	5	Okanogan
01282	SHELDON WATER SYSTEM	49	Act	B		3	9	Okanogan
41077	SHELLROCK VISTA WATER USERS ASSN	49	Act	B		3	8	Okanogan



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
FW030	SINLAHEKIN WILDLIFE AREA HDQS.W.S.	49	Act	B		3	2	Okanogan
27711	SITZMARK SKI AREA	49	Act	B		10		Okanogan
AA688	SKALITUDE	49	Act	B		3	2	Okanogan
04697	SMITH, WINFREY WATER SYSTEM	49	Act	B		2	2	Okanogan
07995	SPRING COULEE HEIGHTS WATER SYSTEM	49	Act	B		4	16	Okanogan
30865	SPRUCE CORNER SHORT PLAT	49	Act	B		4	10	Okanogan
38611	STRATTON WATER SYSTEM	49	Act	B		3	8	Okanogan
03473	SUMMER WIND WATER SYSTEM	49	Act	B		9	23	Okanogan
30891	Sunrise Acres Mobile Home Park	49	Act	B		14	20	Okanogan
51881	SUNRISE HEIGHTS WATER SYSTEM	49	Act	B		8	20	Okanogan
62389	THOMAS PLAT WATER ASSOCIATION	49	Act	B		5	13	Okanogan
00171	THOMAS WATER SYSTEM	49	Act	B		2	5	Okanogan
07780	THOMPSON, CHUCK WATER SYSTEM	49	Act	B		11	2	Okanogan
06733	TUNK VALLEY RANCH WATER SYSTEM	49	Act	B		2	2	Okanogan
31790	TWIN PINES MOBILE HOME PARK	49	Act	B		8	18	Okanogan
34186	TWISP TRANSFER STATION	49	Act	B		10		Okanogan
02983	UNGER/WYATT WATER SYSTEM	49	Act	B		2	4	Okanogan
06321	Valley View Estates Water System	49	Act	B		9	24	Okanogan
00780	VALLEY VIEW PARK SUBDIVISON	49	Act	B		6	18	Okanogan
AA746	VICKIES PIE SHOP	49	Act	B		10		Okanogan
04007	VISTA HILLS ESTATES 1	49	Act	B		4	10	Okanogan
03272	WALTON, BOYD WATER SYSTEM	49	Act	B		4	9	Okanogan
03998	WANNACUT LAKE VIEW ESTATES #1	49	Act	B		3	8	Okanogan
27676	WAY S WATER SYSTEM	49	Act	B		12	14	Okanogan
04506	WESTVUE RANCHETTES #1	49	Act	B		9	17	Okanogan
17624	WESTVUE RANCHETTES #2	49	Act	B		9	20	Okanogan
05524	WESTVUE RANCHETTES #3	49	Act	B		3	6	Okanogan
42012	WHITE WATER SYSTEM	49	Act	B		10		Okanogan
07424	WHITESTONE MOUNTAIN ORCHARD	49	Act	B		8	4	Okanogan
34144	WILLIAMSON SHORT PLAT	49	Act	B		4	8	Okanogan
06285	WILLMS ESTATE SHORT PLAT	49	Act	B		5	15	Okanogan
05663	WILLOWS WATER ASSOCIATION	49	Act	B		1	1	Okanogan
01678	WILSON ACRES WATER SYSTEM	49	Act	B		2	5	Okanogan
05207	WODA WOODS #1	49	Act	B		1	4	Okanogan
05307	WODA WOODS #2	49	Act	B		1	2	Okanogan
39614	WOODCREST FALLS	49	Act	B		3	5	Okanogan
HD014	WSDOT OKANOGAN MAINTENANCE FACILITY	49	Act	B		10		Okanogan
06127	CHELAN HATCHERY DOMESTIC WATER	50	Act	B		3	6	Chelan
AB273	Ahl Water System	50	Act	B		3	1	Douglas
AA030	CORRAL CREEK RANCH - PHASE 1	50	Act	B		1	1	Douglas
06419	LAKEVIEW WATER SYSTEM	50	Act	B		2	7	Douglas

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
05951	MOUNTAIN VALLEY MHP	50	Act	B		6	15	Douglas
05791	NELSON ESTATES	50	Act	B		4	10	Douglas
67580	PINE STREET WATER CO	50	Act	B		5	13	Douglas
72227	RICH ACRES WATER CORP	50	Act	B		12	24	Douglas
01750	ROCKY BUTTE CHURCH OF THE NAZARENE	50	Act	B		2	2	Douglas
02099	SZTAB WATER SYSTEM	50	Act	B		6	15	Douglas
88390	TIMM BROS WATER SYSTEM	50	Act	B		6	15	Douglas
72434	WASHBURN / RIGGS WATER SYSTEM	50	Act	B		8	13	Douglas
07768	WESTERDAHL ORCHARDS - TENT CAMP	50	Act	B		4	5	Douglas
31342	WESTERDAHL WATER SYSTEM	50	Act	B		7	13	Douglas
00482	Faith Frontier Ministries	50	Act	B		4	14	Okanogan
AA087	CHAR-DONNIE	51	Act	B		2	4	Lincoln
NR570	NORTH FORK NINE MILE	51	Act	B		10		Okanogan
72115	REYNOLDS RESORT	51	Act	B		3	3	Okanogan
08172	SDA - THALLHEIMER WATER ASSN	51	Act	B		4	16	Okanogan
02486	EAGLE TRACT ORV FACILITY	52	Act	B		2	2	Ferry
AA470	K Diamond K Ranch	52	Act	B		1	2	Ferry
07568	LIBERTY BAPTIST CHURCH	52	Act	B		2	5	Ferry
FS578	LONG LAKE CAMPGROUND	52	Act	B		10		Ferry
61475	NORTH TWIN LAKE TRIBAL YOUTH CAMP	52	Act	B		2	5	Ferry
03515	PENDRY, RALPH WATER SYSTEM	52	Act	B		2	3	Ferry
67675	PINES CAFE	52	Act	B		2	5	Ferry
HD597	REPUBLIC MAINTENANCE SITE	52	Act	B		20		Ferry
05976	REPUBLIC SDA CHURCH	52	Act	B		10		Ferry
12129	RUBERTS CURLEW LAKE TRACT ASSN	52	Act	B		13	2	Ferry
75825	SAN POIL BAY IMPROVEMENT ASSN INC	52	Act	B		80		Ferry
AA367	SUNSET LANE	52	Act	B		5	8	Ferry
75830	VAAGEN BROS LUMBER COMPANY	52	Act	B		100		Ferry
AB219	Lakeview Catering	52	Act	B		1	4	Lincoln
06538	BROUGHER RANCH II	53	Act	B		3	4	Lincoln
08271	BROUGHER RANCH III	53	Act	B		1	2	Lincoln
08340	CAMPBELL BAY FARMS	53	Act	B		7	10	Lincoln
04298	COLUMBIA SPRINGS ESTATES	53	Act	B		8	15	Lincoln
07938	FDR ESTATES #1	53	PreAct	B		0		Lincoln
07939	FDR ESTATES #2	53	PreAct	B		0		Lincoln
07942	FDR ESTATES #3	53	PreAct	B		0		Lincoln
07943	FDR ESTATES #4	53	PreAct	B		0		Lincoln
07944	FDR ESTATES #5	53	Act	B		1	2	Lincoln
07961	FDR ESTATES #6	53	Act	B		1	2	Lincoln
05694	LAKE ROOSEVELT HIDEAWAY	53	Act	B		2	4	Lincoln
05403	LAKEVIEW HEIGHTS WATER SYSTEM	53	Act	B		10	15	Lincoln

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
07007	LIVINGSTON, GEORGE WATER SYSTEM	53	Act	B		2	2	Lincoln
20101	MOCASSIN BAY ASSOCIATION	53	Act	B		11	6	Lincoln
06719	PORCUPINE BAY ESTATES	53	Act	B		2	3	Lincoln
56364	ROCKY TOP ESTATES	53	Act	B		4	7	Lincoln
AA482	ROOSEVELT VIEWS SUBDIVISION	53	Act	B		1	6	Lincoln
51131	TARBERT WATER SYSTEM	53	Act	B		4	10	Lincoln
06998	TRANQUIL ESTATES	53	Act	B		4	1	Lincoln
18269	MC GINNIS LAKE RESORT	53	Act	B		7	10	Okanogan
35638	INDIAN PRAIRIE WATER ASSN	53	Act	B		9	20	Spokane
NP190	DETILLION CAMPGROUND	54	Act	B		10		Lincoln
26090	FORT SPOKANE STORE	54	Act	B		2	2	Lincoln
02484	HUNTER FAMILY WATER SYSTEM	54	Act	B		5	10	Lincoln
04991	KUNZ WATER SYSTEM	54	Act	B		2	6	Lincoln
AB341	Pavlov Water System	54	Act	B		4	1	Lincoln
06719	PORCUPINE BAY ESTATES	54	Act	B		2	3	Lincoln
38625	SQUAW CANYON PLAT III	54	Act	B		13	7	Lincoln
47435	AIR LIQUIDE AMERICA CORP	54	Act	B		20		Spokane
33331	ANDRUS ESTATES WATER SYSTEM	54	Act	B		8	20	Spokane
07530	AVISTA CORP - NINE MILE HED	54	Act	B		10		Spokane
03640	BABBLING BROOK TRAILER COURT	54	Act	B		2	4	Spokane
04179	BALMER GARDENS	54	Act	B		9	20	Spokane
07473	BARTELS WATER SYSTEM	54	Act	B		3	6	Spokane
02823	BENAVIDEZ WATER SYSTEM	54	Act	B		2	6	Spokane
07171	CASE MANOR	54	Act	B		2	2	Spokane
12174	CENTRAL PRE-MIX - FT WRIGHT PLANT	54	Act	B		10		Spokane
00483	DICUS/TURNER WATER SYSTEM	54	Act	B		2	5	Spokane
19933	DRAPER TRACTOR	54	Act	B		20		Spokane
AB369	Eagles Nest	54	Act	B		2	3	Spokane
62311	ELDRED - ORE	54	Act	B		2	7	Spokane
35717	EMPIRE COLD STORAGE & FROSTY ICE	54	Act	B		10		Spokane
24595	FAIRVIEW HEIGHTS TRAILER COURT	54	Act	B		3	1	Spokane
02044	GARFIELD B & C WATER SYSTEM	54	Act	B		2	6	Spokane
56251	GARY S WELL WATER SYSTEM	54	Act	B		2	5	Spokane
27513	GESINGER, GARALD A.	54	Act	B		4	11	Spokane
12864	GLS WATER SYSTEM	54	Act	B		2	5	Spokane
03494	GORMAN, DALY, KIRSTEN	54	Act	B		3	8	Spokane
56514	GRUBER WATER SYSTEM	54	Act	B		2	5	Spokane
56743	HAVEN HOMES	54	Act	B		2	7	Spokane
33476	HENDERSON WATER SYSTEM	54	Act	B		2	5	Spokane
00076	JOHNSTON, R WATER SYSTEM	54	Act	B		2	5	Spokane
02573	LANDT FARMS	54	Act	B		2	4	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01791	LEONETTI WATER SYSTEM	54	Act	B		4	12	Spokane
03495	LONG LAKE WATER SYSTEM	54	Act	B		2	4	Spokane
00454	MARABELLO WATER SYSTEM	54	Act	B		2	5	Spokane
62501	MATHER WATER SYSTEM	54	Act	B		2	5	Spokane
01806	MATTHEW S WATER WORKS	54	Act	B		2	3	Spokane
41177	MCLELLAN WATER SYSTEM	54	Act	B		3	6	Spokane
29346	MCLELLAN, ROGER	54	Act	B		2	5	Spokane
00086	MEWBOURN/TUPPER WATER SYSTEM	54	Act	B		2	5	Spokane
19700	NAGRA WATER	54	Act	B		2	0	Spokane
13287	NINE MILE FALLS SD 325 ADMIN	54	Act	B		1	0	Spokane
07204	NOAA/NWS SPOKANE	54	Act	B		1	0	Spokane
60755	NORTH MEADOWS WATER COMPANY	54	Act	B		12	22	Spokane
01669	NORTHWEST MICROFILM CO., INC.	54	Act	B		2	3	Spokane
51896	OLD TRAILS COUNTRY ESTATES	54	Act	B		12	13	Spokane
51226	PATCHEN WATER WORKS	54	Act	B		2	5	Spokane
01058	PATRICK WATER SYSTEM	54	Act	B		2	6	Spokane
02571	PAULETTO WATER SYSTEM	54	Act	B		2	8	Spokane
03254	PAYNE, JASON WTR. SYS.	54	Act	B		2	4	Spokane
34506	PIERSON, JOHN F. WATER SYSTEM	54	Act	B		2	5	Spokane
03123	PINE BLUFF WATER SYSTEM	54	Act	B		2	4	Spokane
69165	PRAIRIE PINES WATER SYSTEM	54	Act	B		9	21	Spokane
00667	PURCELL S WELL WATER SYSTEM	54	Act	B		3	9	Spokane
38840	QUAIL RIDGE WATER DISTRICT	54	Act	B		4	13	Spokane
00777	R WATER SYSTEM	54	Act	B		2	5	Spokane
04828	RIDGEVIEW PARK ESTATES	54	Act	B		3	3	Spokane
51071	RIETH WATER SYSTEM	54	Act	B		2	5	Spokane
98570	RIVER PARK ESTATES	54	Act	B		14	20	Spokane
21851	ROLLING HILLS RANCH	54	Act	B		2	5	Spokane
03319	RUSHWATER WATER SYSTEM	54	Act	B		2	10	Spokane
62630	SAMEK S WATER SYSTEM	54	Act	B		3	8	Spokane
07689	SEIGLE WATER DISTRICT	54	Act	B		2	6	Spokane
56490	SPOKANE CO FIRE DIST 10 STA 3	54	Act	B		1	0	Spokane
56675	SPOKANE CO FIRE DIST 10 STA 4	54	Act	B		1	0	Spokane
02434	SPOKANE CO FIRE DIST 5	54	Act	B		1	0	Spokane
08302	SPOKANE CO FIRE DIST 9 STA 93	54	Act	B		1	0	Spokane
07605	SPOKANE ROCK PRODUCTS	54	Act	B		1	0	Spokane
03491	SPRING HILL ESTATES	54	Act	B		5	20	Spokane
22329	SUNSET PARK & JET SYSTEM 1	54	Act	B		2	3	Spokane
41314	SUNSET PARK & JET SYSTEM 2	54	Act	B		1	0	Spokane
01819	TEEN CHALLENGE	54	Act	B		7	20	Spokane
02721	VALPEY WATERWORKS	54	Act	B		2	4	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
22337	WEST VALLEY WATER SYSTEM	54	Act	B		4	10	Spokane
03502	WESTERN SKY FAMILY RANCH	54	Act	B		1	0	Spokane
07474	WESTWOOD ACRES #3	54	Act	B		3	10	Spokane
39164	WESTWOOD ACRES WATER SYSTEM	54	Act	B		3	8	Spokane
07211	WESTWOOD ACRES WELL 4	54	Act	B		3	12	Spokane
56351	WILSCOT FORM	54	Act	B		2	5	Spokane
59550	WSDP-NINE MILE COTTAGES/RANGER STA	54	Act	B		4	13	Spokane
39255	ZAFRIR WATER SYSTEM	54	Act	B		2	5	Spokane
03782	ZOLLMAN S WELL	54	Act	B		2	4	Spokane
05221	AGMED CHEMICAL CO INC	54	Act	B		2	3	Stevens
01368	CLARK WATER SYSTEM	54	Act	B		3	6	Stevens
AA168	CLEAR WATER	54	Act	B		1	0	Stevens
AA798	FORD COMMUNITY CHURCH	54	Act	B		2	0	Stevens
25785	FORD TRADING POST	54	Act	B		4	5	Stevens
89675	FORSHEES LAST RESORT-TUM TUM	54	Act	B		6	15	Stevens
00594	GRIFFIN WATER SYSTEM	54	Act	B		3	8	Stevens
51453	HAPPY HILL WATER SYSTEM	54	Act	B		2	6	Stevens
AA471	Hide-Away Water System	54	Act	B		8	1	Stevens
03399	KINGSBURY, GARY WATER SYSTEM	54	Act	B		3	10	Stevens
NR510	LAKE SPOKANE CAMPGROUND	54	Act	B		4	0	Stevens
00401	LANDS WATER SYSTEM	54	Act	B		2	5	Stevens
04077	LARSON, BERNIE D. WATER SYSTEM	54	Act	B		2	4	Stevens
03936	LORD-FRENCH WATER SYSTEM	54	Act	B		2	6	Stevens
04779	RADTKE S HOLE	54	Act	B		1	0	Stevens
00891	SKAUGSTAD WATER SYSTEM	54	Act	B		4	12	Stevens
04063	TOO MUCH WATER SYSTEM	54	Act	B		2	4	Stevens
00350	CASTLE WATER SYSTEM	55	Act	B		2	0	Pendoreille
56167	HELTON WATER SYSTEM	55	Act	B		2	3	Pendoreille
03675	KRAUT, JOHN PAUL WATER SYSTEM	55	Act	B		2	12	Pendoreille
05418	MAGIC WATERS	55	Act	B		4	3	Pendoreille
03036	MASON S MEAT PACKING	55	Act	B		1	0	Pendoreille
02193	MOON CREEK RESTAURANT	55	Act	B		1	0	Pendoreille
07446	NEW TESTAMENT CHURCH	55	Act	B		1	0	Pendoreille
AA052	ONEILL STEEL FABRICATION INC	55	Act	B		2	3	Pendoreille
00447	PENRITH PINES WATER ASSN	55	Act	B		6	15	Pendoreille
04909	SACHEEN VIEW	55	Act	B		7	1	Pendoreille
AA818	SHAWGO WATER SYSTEM	55	Act	B		1	2	Pendoreille
75152	ACME MATERIALS & CONSTRUCTION	55	Act	B		2	3	Spokane
00334	ALOHA RANCH WATER SYSTEM	55	Act	B		4	5	Spokane
39463	APPLEWOOD FARMS	55	Act	B		1	0	Spokane
56130	BACKWOODS STORE	55	Act	B		2	0	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
00082	BAKER/KRIETZMAN WELL	55	Act	B		2	5	Spokane
03057	BARRENTINE WATER SYSTEM	55	Act	B		2	4	Spokane
02672	BAUER, PATTI WATER SYSTEM	55	Act	B		2	3	Spokane
07623	Belle Victorian Gardens	55	Act	B		1	2	Spokane
02497	BENCE-VIGIL WELL	55	Act	B		2	10	Spokane
06717	BMW WATER	55	Act	B		3	11	Spokane
02677	BONGERS WATER SYSTEM	55	Act	B		2	6	Spokane
33691	C & T TRUCK PARTS	55	Act	B		1	0	Spokane
11163	CARMEL ESTATES WATER ASSN	55	Act	B		8	19	Spokane
41242	CENEX SUPPLY AND MARKETING	55	Act	B		1	0	Spokane
12157	CENTRAL GRANGE	55	Act	B		1	0	Spokane
30814	CHANEYS BOTTOMS UP TAVERN	55	Act	B		1	0	Spokane
30417	CHARLES A. RUBY COMPANY	55	Act	B		1	0	Spokane
12967	CHURCH OF CHRIST AT DEER PARK	55	Act	B		3	2	Spokane
03986	COMMELLINI WATER SYSTEM 3	55	Act	B		11	19	Spokane
AA750	COUNTRY BARK	55	Act	B		1	0	Spokane
33686	CRAM SALVAGE	55	Act	B		6	0	Spokane
07613	Creative Catering	55	Act	B		3	0	Spokane
06727	CROWLEY WATER SYSTEM	55	Act	B		2	5	Spokane
07454	DARTFORD NORTH	55	Act	B		2	8	Spokane
03492	DEER PARK ANIMAL MEDICAL CENTER	55	Act	B		1	0	Spokane
00719	DEER PARK AUCTION BARN	55	Act	B		1	3	Spokane
07261	DENISON HOMEOWNERS	55	Act	B		6	20	Spokane
NR240	DRAGOON CREEK PARK - WSDNR	55	Act	B		3	0	Spokane
41729	EICKMEYER WATER SYSTEM	55	Act	B		2	5	Spokane
32970	ELK AUTO AND TRUCK	55	Act	B		1	0	Spokane
22908	ELK COMMUNITY CHURCH	55	Act	B		2	0	Spokane
22915	ELK COMMUNITY WATER ASSN	55	Act	B		8	15	Spokane
03572	EVAN S WATER	55	Act	B		2	6	Spokane
93066	FAHLAND WATER SYSTEM	55	Act	B		9	23	Spokane
25579	FIVE MILE COMMUNITY CHURCH	55	Act	B		1	0	Spokane
07259	FRONTIER HOMEOWNERS ASSN	55	Act	B		8	20	Spokane
01665	G & G WATER SYSTEM	55	Act	B		2	7	Spokane
02367	GARST WELL	55	Act	B		2	5	Spokane
07172	GRAHAM ROAD RECYCLING & DISPOSAL	55	Act	B		2	2	Spokane
03121	GRANT S WELL	55	Act	B		2	6	Spokane
53151	GREEN BLUFF UNITED METHODIST CHURCH	55	Act	B		3	0	Spokane
51466	GREENBLUFF BENCH WATER SYSTEM	55	Act	B		6	18	Spokane
02986	GRIFFITH WATER SYSTEM	55	Act	B		2	4	Spokane
AB238	Hagens Well	55	Act	B		2	2	Spokane
52985	HAHN MACHINERY	55	Act	B		2	3	Spokane



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
62376	HALLADAY WATER SYSTEM	55	Act	B		2	5	Spokane
07260	HAMILTON HOMEOWNERS ASSN	55	Act	B		6	20	Spokane
35733	INLAND POWER - GREENBLUFF	55	Act	B		1	0	Spokane
01741	INLAND POWER AND LIGHT WATER SYSTEM	55	Act	B		1	0	Spokane
56529	JOBES WATER SYSTEM	55	Act	B		2	2	Spokane
08338	JOURNEY LANE WATER	55	Act	B		3	10	Spokane
56021	KING WATER SYSTEM	55	Act	B		2	5	Spokane
07203	KING WELL	55	Act	B		1	0	Spokane
38851	KOESEL SPRING	55	Act	B		5	12	Spokane
43287	KXLY TOWER	55	Act	B		1	0	Spokane
34031	L & S WATER SYSTEM	55	Act	B		1	3	Spokane
01394	LAKE SHORE WATER ASSOCIATION	55	Act	B		9	11	Spokane
01214	LAKE VIEW WATER SYSTEM	55	Act	B		4	4	Spokane
00709	LANCASTER WATER SYSTEM	55	Act	B		2	6	Spokane
00907	LEESON WATER WORKS #1	55	Act	B		2	6	Spokane
02094	LITTLE DEEP CREEK WATER SYSTEM	55	Act	B		2	5	Spokane
82998	LIVING WATER SPRAY SERVICE	55	Act	B		1	0	Spokane
01408	MC CALL, NEIL E. WATER SYSTEM	55	Act	B		2	6	Spokane
52287	MCDONALD BUILDING SALES	55	Act	B		2	3	Spokane
56161	MCSELFISH WATER SYSTEM	55	Act	B		2	5	Spokane
41203	MEADOW WATER SYSTEM	55	Act	B		3	8	Spokane
AA365	Med+Sport	55	Act	B		1	0	Spokane
AA125	MONT LAMM BELGIANS	55	Act	B		1	0	Spokane
56051	MOORE PERM-A-MULCH	55	Act	B		2	0	Spokane
59871	NORCAN PARTS & EQUIPMENT CO	55	Act	B		1	0	Spokane
01738	NORTH STAR BROKERS WATER SYSTEM	55	Act	B		1	0	Spokane
33696	NORTHWOOD FARMS INC	55	Act	B		2	0	Spokane
52102	OWENS WATER SYSTEM	55	Act	B		2	5	Spokane
51001	PETUNIA P. WATER WORKS	55	Act	B		2	3	Spokane
67387	PINE ACRES PITCH & PUTT	55	Act	B		1	0	Spokane
56701	PLATZ WATER SYSTEM	55	Act	B		2	2	Spokane
03810	PLEASANT HILLS ESTATES HOMEOWNERS	55	Act	B		2	6	Spokane
67864	PLEASANT HILLS HOA	55	Act	B		9	21	Spokane
62454	POWELL WATER SYSTEM	55	Act	B		3	14	Spokane
02506	REED FAMILY WELL	55	Act	B		2	4	Spokane
02359	RIGHT ANGLE WATER SYSTEM	55	Act	B		2	6	Spokane
30852	ROBBINS, JON	55	Act	B		2	5	Spokane
01803	ROBERTSON WATER SYSTEM	55	Act	B		2	7	Spokane
03209	ROBERTSON, MONTE L. WTR. SYS.	55	Act	B		2	4	Spokane
51514	RUSSELL S WELL WATER SYSTEM	55	Act	B		2	8	Spokane
00839	S & K ESTATES	55	Act	B		2	6	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
AB127	Saddleback Fairview	55	Act	B		4	10	Spokane
34051	SAFFORD WATER SYSTEM	55	Act	B		6	10	Spokane
00726	SANDERS UTILITIES	55	Act	B		2	6	Spokane
15597	SCHLEPP WATER SYSTEM	55	Act	B		2	5	Spokane
51841	SCHNEIDER S WATER SYSTEM	55	Act	B		2	5	Spokane
05522	SEPULVEDA WATER SYSTEM	55	Act	B		2	7	Spokane
07778	Silver City Timber	55	Act	B		2	2	Spokane
39514	SKYLINE ESTATES	55	Act	B		3	6	Spokane
07039	SMART GARDENS WATER	55	Act	B		2	1	Spokane
03622	SMITH, BARBARA J. WTR. SYS.	55	Act	B		2	5	Spokane
03434	SPOKANE CO FIRE DIST 4 STA 42	55	Act	B		3	0	Spokane
03448	SPOKANE CO FIRE DIST 4 STA 45	55	Act	B		1	0	Spokane
FW011	SPOKANE HATCHERY DOMESTIC WATER	55	Act	B		4	6	Spokane
55946	STARKES WELL	55	Act	B		2	5	Spokane
16301	SUNDOWN WATER SYSTEM	55	Act	B		8	10	Spokane
91943	VISTA FARM #1	55	Act	B		1	0	Spokane
29811	WAGENMAN, PETE	55	Act	B		2	3	Spokane
02780	WALTERS WATER SYSTEM	55	Act	B		2	9	Spokane
93590	WATERS EDGE	55	Act	B		2	5	Spokane
03599	WENDT WATER SYSTEM	55	Act	B		2	6	Spokane
30829	WHITE ROAD WATER DISTRICT	55	Act	B		3	5	Spokane
61968	WILLIAMS GAS PIPELINE-WEST	55	Act	B		1	0	Spokane
23177	WILLOW SPRINGS WATER USERS ASSN	55	Act	B		8	22	Spokane
06965	WINGS WATER SYSTEM	55	Act	B		1	0	Spokane
55941	WITHERSPOON WATER SYSTEM	55	Act	B		2	5	Spokane
01335	YORK-WILEY SHARE WATER SYSTEM	55	Act	B		2	6	Spokane
AB493	Zekes Water System	55	Act	B		2	2	Spokane
AA548	ZIONS CAMP	55	Act	B		4	0	Spokane
02478	ATCHISON, FRANK WATER SYSTEM	55	Act	B		2	4	Stevens
04118	BACON WATER SYSTEM	55	Act	B		2	4	Stevens
02560	BARKER, RICHARD WATER SYSTEM	55	Act	B		2	4	Stevens
03739	CLOUGH WATER SYSTEM	55	Act	B		2	6	Stevens
02650	DEAKINS WATER SYSTEM	55	Act	B		3	6	Stevens
02377	DETLING WATER SYSTEM	55	Act	B		2	9	Stevens
01261	FAMILY ACRES WATERWORKS	55	Act	B		3	9	Stevens
01259	HANSON FAMILY WATER SYSTEM	55	Act	B		5	18	Stevens
02757	LAKEVIEW WATER ASSOCIATION	55	Act	B		4	12	Stevens
06386	WILLIAMS VALLEY GRANGE 452	55	Act	B		2	2	Stevens
07567	AG ENTERPRISES	56	Act	B		1	0	Spokane
00955	ANDERSON FLATS WATER SYSTEM	56	Act	B		2	3	Spokane
55959	B AND L WATER SYSTEM	56	Act	B		2	5	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01654	BAKER WATER SYSTEM	56	Act	B		2	5	Spokane
30570	Barr Water	56	Act	B		3	8	Spokane
05409	BELL MOTEL	56	Act	B		14	20	Spokane
05747	BENSON MOTEL	56	Act	B		9	1	Spokane
AB323	Black Velvet	56	Act	B		2	1	Spokane
39242	BLACK WATER SYSTEM	56	Act	B		2	5	Spokane
AB412	Blue Camas Meadows Bed & Breakfast	56	Act	B		2	4	Spokane
51901	BROWN S WELL	56	Act	B		2	5	Spokane
02675	CAMP CO MI A	56	Act	B		4	12	Spokane
06108	CARTER-CHELF WATER SYSTEM	56	Act	B		2	4	Spokane
04733	CASEY WATER SYSTEM	56	Act	B		2	4	Spokane
11935	CEDAR KNOLLS WATER ASSN	56	Act	B		9	22	Spokane
12397	CHENEY RODEO CORPORATION	56	Act	B		4	8	Spokane
AA689	Consolidated Support Services	56	Act	B		10		Spokane
01647	CRAWFORD WATER SYSTEM	56	Act	B		2	4	Spokane
AB318	Crystal	56	Act	B		5	1	Spokane
17065	CUSTOM BUILDING SUPPLY INC	56	Act	B		10		Spokane
19535	D LAURALEE KENNELS	56	Act	B		2	2	Spokane
21915	EASTERN WASH. UNIV.-TURNBULL STA.	56	Act	B		10		Spokane
26463	FREEMAN STORE	56	Act	B		2	3	Spokane
35730	FREIGHTLINER	56	Act	B		20		Spokane
27180	GARDEN SPRINGS GREENHOUSE	56	Act	B		2	5	Spokane
41301	GRANITE LAKE WATER ASSOCIATION	56	Act	B		5	14	Spokane
02753	GRUBB, DAVID WATER SYSTEM	56	Act	B		2	10	Spokane
02127	HARSHBERGER WATER SYSTEM	56	Act	B		2	5	Spokane
31873	HAYFORD COMMUNITY CHURCH	56	Act	B		3	1	Spokane
00573	JACOBSON GREENHOUSES INC	56	Act	B		4	10	Spokane
39016	JOHNSON WATER SYSTEM	56	Act	B		2	5	Spokane
42067	KINGS COMMUNITY CHURCH	56	Act	B		10		Spokane
00589	LA SHAW WATER SYSTEM	56	Act	B		2	5	Spokane
03030	LACEY, M. COLEEN	56	Act	B		2	7	Spokane
46675	LEHNERITZ, EUGENE	56	Act	B		3	8	Spokane
52468	MCGREGOR COMPANY	56	Act	B		10		Spokane
41548	MCGREW WATER SYSTEM	56	Act	B		3	5	Spokane
00826	MILCO WATER SYSTEM	56	Act	B		2	6	Spokane
07615	MILLER, C.B. WATER SYSTEM	56	Act	B		4	10	Spokane
01480	MORNING GLORY SUBDIVISION	56	Act	B		2	6	Spokane
12070	MOSS WATER SYSTEM	56	Act	B		2	5	Spokane
58185	NANSONS GREENHOUSE & NURSERY	56	Act	B		2	5	Spokane
01723	O NEILL WATER SYSTEM	56	Act	B		2	5	Spokane
01423	OASIS WATER SYSTEM	56	Act	B		2	6	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
63402	OLIA MEADOWS TRAILER PARK	56	Act	B		6	15	Spokane
AB467	On Sacred Grounds	56	Act	B		1		Spokane
65575	PAFFILE TRUCK LINES	56	Act	B		1	3	Spokane
67394	PINE GROVE APARTMENTS	56	Act	B		6	15	Spokane
00681	PINE ROCK RANCHETTES ADDITION	56	Act	B		9	20	Spokane
87790	PLACE USDA, THE	56	Act	B		3	5	Spokane
02191	POMRANKY WATER SYSTEM	56	Act	B		2	7	Spokane
75446	QUAD WATER SYSTEM	56	Act	B		2	3	Spokane
70265	QUADRA-K MEATS - USDA	56	Act	B		2	2	Spokane
51906	RAINE WATER SYSTEM	56	Act	B		2	5	Spokane
02180	RATHWELL WATER SYSTEM	56	Act	B		2	4	Spokane
03465	REMTECH WATER SYSTEM	56	Act	B		2	1	Spokane
62350	RENDALL WATER SYSTEM	56	Act	B		2	4	Spokane
73910	ROGERS MOTEL	56	Act	B		1	3	Spokane
74575	ROWAND MACHINERY CO	56	Act	B		1	3	Spokane
00593	RUNYAN/LELAND WATER SYSTEM	56	Act	B		2	5	Spokane
77777	SHADY PINES TRAILER COURT	56	Act	B		8	23	Spokane
19109	SOUTH PINES ESTATES WATER SYSTEM	56	Act	B		8	20	Spokane
26890	SOWARDS, BROOKS	56	Act	B		3	10	Spokane
82986	SPIRAL & RAILING HOUSE INC	56	Act	B		1	0	Spokane
51252	SPO CO - SPANGLE CREEK DIST 2	56	Act	B		1	0	Spokane
AA912	SPOKANE CO FIRE DIST 3 STA 33	56	Act	B		1	0	Spokane
AA392	Spokane Co Fire Dist 3 Sta 39	56	Act	B		1	0	Spokane
82995	SPOKANE CO FIRE DIST 8 STATION 2	56	Act	B		1	2	Spokane
41470	STOLL S WELL	56	Act	B		2	5	Spokane
00074	STORM S WELL WATER SYSTEM	56	Act	B		2	4	Spokane
34006	SULLIVAN WATER SYSTEM	56	Act	B		2	5	Spokane
86116	SUNSET FLORIST & GREENHOUSE	56	Act	B		2	5	Spokane
85962	SUNSET HILL APARTMENTS	56	Act	B		5	13	Spokane
11655	SUNSET INDUSTRIAL	56	Act	B		2	0	Spokane
42094	SWEET PEA WATER SYSTEM	56	Act	B		2	8	Spokane
07162	SWEETWATER	56	Act	B		2	4	Spokane
51551	TERRY S WELL WATER SYSTEM	56	Act	B		2	5	Spokane
00472	THOMPSON WATER SYSTEM	56	Act	B		2	5	Spokane
24711	TTT RENTALS	56	Act	B		9	13	Spokane
62565	UPPER COLUMBIA MISSION SOCIETY	56	Act	B		3	5	Spokane
91090	VALLEYFORD PARK	56	Act	B		1	0	Spokane
34801	VALLEYFORD STORE	56	Act	B		3	5	Spokane
34251	VIEW ACRES WATER SYSTEM	56	Act	B		3	8	Spokane
26280	VISTA FARM #4	56	Act	B		2	3	Spokane
24609	WALTER VAN MATRE WATER SYSTEM	56	Act	B		2	5	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
01598	WEBSTER WATER SYSTEM	56	Act	B		2	2	Spokane
01584	WILKE WATER SYSTEM	56	Act	B		2	6	Spokane
24077	WILSON-MILLER WATER SYSTEM	56	Act	B		2	5	Spokane
97460	WINDSOR BAPTIST CHURCH	56	Act	B		1	0	Spokane
84563	WINDSOR GRANGE	56	Act	B		4	5	Spokane
98410	WOOD-TRUSS METAL BUILDINGS	56	Act	B		1	3	Spokane
62617	WYND WATER SYSTEM	56	Act	B		2	5	Spokane
62194	ZEHM WATER SYSTEM	56	Act	B		2	5	Spokane
04645	BOND, PAUL WATER SYSTEM	57	Act	B		2	3	Pendoreille
17280	ALSAKER, DONALD	57	Act	B		2	5	Spokane
03656	BARTCH, RICHARD WATER SYSTEM	57	Act	B		2	4	Spokane
00599	BERTHOLIC FAMILY FARM WATER SYSTEM	57	Act	B		2	6	Spokane
07636	BONENKO WATER SYS. #2	57	Act	B		4	10	Spokane
14494	BROWN S ESTATE WATER SYSTEM	57	Act	B		4	10	Spokane
12238	CHAPPLE WATER SYSTEM	57	Act	B		3	11	Spokane
30557	CHASTEK S WELL	57	Act	B		3	8	Spokane
01183	CLARK WATER SYSTEM	57	Act	B		2	5	Spokane
AB182	Crystal Clear	57	Act	B		5	1	Spokane
77801	DUNCALF WATER SYSTEM	57	Act	B		6	14	Spokane
01248	DUPREE WATER SYSTEM	57	Act	B		3	5	Spokane
31367	EDGREN, LENTZ, DEMARS WATER SYSTEM	57	Act	B		6	21	Spokane
06684	G AND A WATER DEVELOPMENT	57	Act	B		2	5	Spokane
23269	GILLSON WATER SYSTEM	57	Act	B		2	5	Spokane
28125	GLENROSE WATER ASSOCIATION	57	Act	B		8	20	Spokane
06669	GRINNELL FIRE PROTECTION INC	57	Act	B		1	0	Spokane
32644	HIDDEN HOLLOW MUTUAL WATER SYSTEM	57	Act	B		6	22	Spokane
33679	HOLIDAY TRAILER COURT	57	Act	B		12	21	Spokane
03488	HOLLENS NEWMAN LAKE WATER	57	Act	B		2	2	Spokane
00699	HOODS PARK SUNSET BEACH WATER USERS	57	Act	B		11	22	Spokane
36665	JANZEN & JANZEN	57	Act	B		1	0	Spokane
12237	KEITH WATER SYSTEM	57	Act	B		2	5	Spokane
00088	KUBAS WATER SYSTEM	57	Act	B		4	8	Spokane
00807	LEVERNIER CONSTRUCTION WATER SYSTEM	57	Act	B		1	0	Spokane
16377	MACKENZIE BAY	57	Act	B		8	6	Spokane
00781	MADISON WATER ASSOCIATION	57	Act	B		2	11	Spokane
21324	MAURER WATER SYSTEM	57	Act	B		2	5	Spokane
01674	MERCER TRUCKING CO INC	57	Act	B		1	0	Spokane
80530	MIDDCO TOOL & EQUIPMENT	57	Act	B		1	0	Spokane
01595	MILLER/BRITTON WATER SYSTEM	57	Act	B		2	5	Spokane
02142	MORNING STAR ADMIN BLDG	57	Act	B		1	0	Spokane
01794	MUNROE/DAVIS WATER SYSTEM	57	Act	B		2	8	Spokane

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
02581	NORAQUA WATER SYSTEM	57	Act	B		2	5	Spokane
04428	NORTH PARK WATER ASSOCIATION	57	Act	B		4	9	Spokane
61973	NORTHWEST ROLLING MILLS INC	57	Act	B		1	3	Spokane
14601	PERRY WATER SYSTEM	57	Act	B		2	5	Spokane
07310	PINE CONE WATER FACILITY	57	Act	B		2	10	Spokane
07874	ROCKIN B RANCH	57	Act	B		3	2	Spokane
18624	SCHREIBER, WM WATER SYSTEM	57	Act	B		2	5	Spokane
AA184	SELKIRK WATER	57	Act	B		5	15	Spokane
06976	SHAMROCK WELL	57	Act	B		1	0	Spokane
02344	SHILL WATER SYSTEM	57	Act	B		2	7	Spokane
18944	SHRUM, TED WATER SYSTEM	57	Act	B		2	5	Spokane
62239	SPOKANE CO FIRE DIST 10 STA 5	57	Act	B		1	0	Spokane
70009	SPOKANE HOME CENTER	57	Act	B		1	0	Spokane
83080	SPOKANE RENDERING CO	57	Act	B		1	3	Spokane
56688	STARR CENTER	57	Act	B		3	0	Spokane
86763	SYSTEMS TRANSPORT INC	57	Act	B		1	0	Spokane
04192	TCI WATER SYSTEM	57	Act	B		6	9	Spokane
27350	TDS	57	Act	B		2	0	Spokane
07545	UNION PACIFIC RAILROAD - TRENTWOOD	57	Act	B		1	0	Spokane
15036	WALTERS WATER SYSTEM	57	Act	B		3	8	Spokane
94185	WELLER WATER WORKS	57	Act	B		4	7	Spokane
51824	WESTCO S APPAREL SERVICE	57	Act	B		3	5	Spokane
95163	WESTERN STRUCTURES INC	57	Act	B		2	0	Spokane
00828	WEYRAUCH S WATER SYSTEM	57	Act	B		2	6	Spokane
SP571	WSDP MT SPOKANE STATE PARK SYS 2	57	Act	B		3	4	Spokane
SP570	WSDP-MT SPOKANE STATE PARK SYS 1	57	Act	B		2	3	Spokane
HD565	WSDT-PINES ROAD MAINTENANCE	57	Act	B		1	0	Spokane
34737	BISBEE ACRES WATER ASSOCIATION	58	Act	B		5	10	Ferry
51969	MATNEY, FRANK	58	Act	B		2	5	Ferry
AA644	R GARDEN INTERNATIONAL	58	Act	B		2	2	Ferry
02525	Azzarito / Fish	58	Act	B		2	4	Stevens
AA572	BUCK CANYON LODGE	58	Act	B		1	2	Stevens
17710	DAISY WATER SYSTEM	58	Act	B		6	9	Stevens
03024	DRAKE S WATER COMPANY	58	Act	B		2	4	Stevens
26810	FRUITLAND WATER ASSN	58	Act	B		9	23	Stevens
01664	MALONE WATER SYSTEM	58	Act	B		2	5	Stevens
AA682	NEUFELDT WATER SYSTEM	58	Act	B		3	6	Stevens
07804	RICE CHURCH	58	Act	B		2	2	Stevens
04112	RICKEY CANYON SUBDIVISION	58	Act	B		3	8	Stevens
AA980	Stevens Co Fire District #12	58	Act	B		1	0	Stevens
03558	TIMMERMAN, JOHN M. WATER SYSTEM	58	Act	B		2	5	Stevens



PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
02769	VERY DEEP WELL WATER SYSTEM	58	Act	B		3	6	Stevens
AB381	Victory Baptist Church	58	Act	B		1		Stevens
99330	YE OLD COUNTRY STORE	58	Act	B		2	7	Stevens
04914	ARDEN COMMUNITY CLUB	59	Act	B		1	0	Stevens
AB451	Arden Second Hand	59	Act	B		1		Stevens
00616	ARDENBROOK WATER ASSN A	59	Act	B		8	19	Stevens
AA990	Ardenbrook Water Assn B	59	Act	B		9	21	Stevens
00006	AUTO VIEW DRIVE-IN	59	Act	B		2	3	Stevens
AA051	BAKER, NAT & KRIS WATER SYSTEM	59	Act	B		1	0	Stevens
39190	BATES WATER SYSTEM	59	Act	B		2	5	Stevens
03849	BERTLOW WELL	59	Act	B		2	3	Stevens
12880	CHOPOT LUMBER COMPANY	59	Act	B		2	5	Stevens
03745	CLAWSON WATER SYSTEM	59	Act	B		2	8	Stevens
31316	CLOWSER, JACK	59	Act	B		3	5	Stevens
BP180	COLVILLE SUBSTATION	59	Act	B		1	0	Stevens
42130	DAVIS WATER SYSTEM	59	Act	B		3	8	Stevens
02705	DAVIS, HAL WATER SYSTEM	59	Act	B		2	4	Stevens
AB398	DHondt	59	Act	B		5		Stevens
NR233	DOUGLAS FALLS CAMPGROUND	59	Act	B		3	0	Stevens
03405	DRAKE S II	59	Act	B		2	5	Stevens
03733	DURHAM S WATER SYSTEM	59	Act	B		2	8	Stevens
05320	ECHO RIDGE VETERINARY HOSPITAL	59	Act	B		1	3	Stevens
08171	ECHO VALLEY ACRES	59	Act	B		1	3	Stevens
03282	ELY/HEGEL WELL	59	Act	B		2	3	Stevens
04396	FAITH BAPTIST CHURCH	59	Act	B		2	2	Stevens
NR260	FLODELLE CREEK CAMPGROUND	59	Act	B		1	0	Stevens
04069	FLOWERY TRAIL BED & BREAKFAST	59	Act	B		3	4	Stevens
01369	GARRINGER WATER SYSTEM	59	Act	B		2	6	Stevens
03505	GLIDEWELL, WILLIAM WTR. SYS.	59	Act	B		2	5	Stevens
AA757	Gold Edge Estates	59	Act	B		4	4	Stevens
04430	GOLDEN WATER SYSTEM	59	Act	B		2	2	Stevens
02538	GRAHAM, PATRICK WATER SYSTEM	59	Act	B		2	5	Stevens
05681	GRAVES WATER SYSTEM	59	Act	B		4	12	Stevens
02984	HAYES, LEON WTR. SYS.	59	Act	B		2	4	Stevens
04309	HUGHES/CROWTHER WATER SYSTEM	59	Act	B		2	6	Stevens
01638	JACK S WELL WATER SYSTEM	59	Act	B		2	4	Stevens
06351	JOHNSON, WILLIAM	59	Act	B		3	8	Stevens
02706	JOHNSTON, DONALD WATER SYSTEM	59	Act	B		2	4	Stevens
02121	JUMP OFF JOE WATER SYSTEM	59	Act	B		6	2	Stevens
34525	KULPS SUBDIVISION	59	Act	B		9	23	Stevens
AA036	LA DUKE & FOGLE EQUIPMENT INC	59	Act	B		1	0	Stevens

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
FS495	LAKE LEO CAMPGROUND	59	Act	B		10		Stevens
20239	LAKESIDE CHURCH OF NAZARENE	59	Act	B		10		Stevens
45935	LANE MOUNTAIN SILICA COMPANY	59	Act	B		20		Stevens
39177	LEACH WATER SYSTEM	59	Act	B		3	8	Stevens
07094	LENTZ, DON WATER SYSTE	59	Act	B		3	10	Stevens
HD430	LOON LAKE MAINTENANCE SITE (DOH)	59	Act	B		10		Stevens
06430	LOPPS FIRST ADDITION WATER SYSTEM	59	Act	B		12	2	Stevens
02636	LYNDS SUBDIVISION	59	Act	B		2	5	Stevens
04861	LYONS MOSS SUBDIVISION	59	Act	B		4	16	Stevens
18561	MADRE MINE	59	Act	B		50		Stevens
19431	MEADOWDALE SUB WATER SYSTEM	59	Act	B		10	15	Stevens
03561	MELVILLE S WATER SYSTEM	59	Act	B		2	8	Stevens
27141	MID-DEL ACRES - PARK RAPIDS	59	Act	B		5	12	Stevens
13074	MILL CREEK PARK WATER	59	Act	B		8	20	Stevens
62252	MOORE WATER SYSTEM	59	Act	B		4	10	Stevens
51389	MUMAU WATER SYSTEM	59	Act	B		2	5	Stevens
03748	MURPHY, H.J. WATER SYSTEM	59	Act	B		2	5	Stevens
18451	MY PARENTS ESTATE	59	Act	B		5	10	Stevens
58778	NELSON GORDON SHORT PLAT NO.95-77	59	Act	B		4	10	Stevens
11251	NELSON, GORDON WATER SYSTEM	59	Act	B		11	10	Stevens
01008	NICHOLS PUBLIC WATER SYSTEM	59	Act	B		4	10	Stevens
31746	NORTHWEST ALLOYS INC	59	Act	B		10		Stevens
63115	OENS M MOBILE HOME PARK	59	Act	B		1	2	Stevens
00487	OLD CC ROAD WATER SYSTEM	59	Act	B		3	8	Stevens
19059	ORIN HEIGHTS WATER SYSTEM	59	Act	B		6	15	Stevens
24251	PACQUETTE WATER SYSTEM	59	Act	B		3	8	Stevens
02053	PARK RAPIDS WATER SYSTEM	59	Act	B		5	9	Stevens
62691	PECK/OLTEAN WATER SYSTEM	59	Act	B		2	5	Stevens
01577	PHILLIPS WATER SYSTEM	59	Act	B		2	4	Stevens
07315	PINE GROVE MENNONITE CHURCH	59	Act	B		10		Stevens
04073	POTTER/SALAPKA WATER SYSTEM	59	Act	B		2	4	Stevens
03507	RAVE, THOMAS E.	59	Act	B		2	5	Stevens
08268	RED S WATER DISTRICT	59	Act	B		5	20	Stevens
34825	ROBINSON WATER SYSTEM	59	Act	B		3	8	Stevens
NR700	ROCKY LAKE CAMP GROUND	59	Act	B		10		Stevens
20241	ROCKY LAKE WATER SYSTEM	59	Act	B		4	10	Stevens
02839	SCRAPER, JOHN WATER SYSTEM	59	Act	B		2	4	Stevens
01933	SKAGGS WATER SYSTEM	59	Act	B		2	4	Stevens
04153	SOUTH STEVENS CO. TRANSFER STATION	59	Act	B		10		Stevens
03830	SPARLING S WELL	59	Act	B		2	4	Stevens
01853	SPITZER WATER SYSTEM	59	Act	B		2	4	Stevens

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
33314	ST. CLAIR, CHAN WATER SYSTEM	59	Act	B		3	5	Stevens
NR102	STARVATION LAKE CAMPGROUND	59	Act	B		1	0	Stevens
01683	STEVENS ADDITION WATER SYSTEM	59	Act	B		4	15	Stevens
05555	SUNCREST BAPTIST CHURCH	59	Act	B		1	0	Stevens
04296	SWORD, LES J. WATER SYSTEM	59	Act	B		2	4	Stevens
05798	TRAMWAY WATER ASSN	59	Act	B		10	8	Stevens
01102	TRIMBLE WATER SYSTEM	59	Act	B		2	3	Stevens
56001	TRIPP WATER SYSTEM	59	Act	B		2	5	Stevens
89851	TWELVE MILE TRAILER PARK	59	Act	B		3	8	Stevens
89850	TWELVE MILE WATER ASSOCIATION	59	Act	B		10	24	Stevens
AB457	Valley SD #70 Transport Facility	59	Act	B		2	5	Stevens
01592	VALLEY WESTSIDE WATER SYSTEM	59	Act	B		5	16	Stevens
02779	VAN DORN/NELSON WATER SYSTEM	59	Act	B		2	3	Stevens
34021	VAN LAND WATER SYSTEM	59	Act	B		4	12	Stevens
03252	VAN SICKLE, FAYE WTR. SYS.	59	Act	B		2	3	Stevens
12271	VESSER JACK V. WATER SYSTEM	59	Act	B		2	5	Stevens
03516	WEIMER, MICHAEL	59	Act	B		2	4	Stevens
02635	WEST ARDEN HILLS WATER SYSTEM	59	Act	B		2	2	Stevens
04644	WHITE WATER WELL	59	Act	B		2	6	Stevens
NR900	WILLIAMS LAKE CAMP GROUND	59	Act	B		1	0	Stevens
02045	WINT WATER SYSTEM	59	Act	B		2	4	Stevens
02593	WUTZKE WATER SYSTEM	59	Act	B		6	15	Stevens
30451	ABRAHAM SHORT PLAT	60	Act	B		4	8	Ferry
34014	ANDERSON K. R. LOTS	60	Act	B		2	7	Ferry
AB500	AOY Cascade	60	Act	B		4		Ferry
08014	BOYDS TAVERN	60	Act	B		2	5	Ferry
38951	COLUMBIA RIVER WATER ASSOCIATION	60	Act	B		3	10	Ferry
51527	CURLEW LAKE HEIGHTS WATER SYSTEM	60	Act	B		9	20	Ferry
56597	CURLEW LAKE TRACTS	60	Act	B		5	9	Ferry
31989	FOURTH OF JULY CREEK ESTATES	60	Act	B		8	14	Ferry
34017	FREDRICKSON SHORT PLAT	60	Act	B		5	13	Ferry
03029	HUNT, WALTER WTR. SYS.	60	Act	B		1	1	Ferry
02268	KETTLE COURT WATER SYSTEM	60	Act	B		4	10	Ferry
05363	LAKECREST WATER SYSTEM	60	Act	B		4	12	Ferry
04765	LAURIER ENTERPRISES	60	Act	B		2	2	Ferry
03659	MARCH, TED WATER SYSTEM	60	Act	B		2	8	Ferry
05959	ROCKCUT WATER	60	Act	B		4	0	Ferry
62207	THIELE-NELSON WATER SYSTEM	60	Act	B		2	5	Ferry
88305	TIFFANY'S RESORT	60	Act	B		1	0	Ferry
02190	TOWNSHIP CREEK WATER SYSTEM	60	Act	B		2	4	Ferry
17810	US BORDER STATION - DANVILLE	60	Act	B		1	0	Ferry

PWS ID	ORG NAME	WRIA	STATUS	GROUP	TYPE	CONNECTION COUNT	POPULATION	COUNTY
24875	US BORDER STATION - FERRY	60	Act	B		1	0	Ferry
46315	US BORDER STATION - LAURIER	60	Act	B		3	6	Ferry
03560	WATKINS, RAY WATER SYSTEM	60	Act	B		2	4	Ferry
38990	CHESAW MEATS (CUSTOM)	60	Act	B		2	5	Okanogan
12635	CHESAW WATER SYSTEM	60	Act	B		11	18	Okanogan
01575	LESLIE WATER SYSTEM	60	Act	B		4	12	Okanogan
02747	NORTH COUNTRY CHRISTIAN SCHOOL & CG	60	Act	B		4	1	Okanogan
41405	BALDWIN WATER SYSTEM	60	Act	B		2	5	Stevens
02471	HARSIN/DRISKILL WATER SYSTEM	60	Act	B		2	5	Stevens
02539	JAMES WATER SYSTEM	60	Act	B		2	5	Stevens
03135	WEST, ROBERT L. WATER SYSTEM	60	Act	B		2	4	Stevens
AA317	SUNCADIA RESORT	39	PreAct	U		0	0	Kittitas
AA292	WIND WALKER	51	Act	U		4	20	Lincoln

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
00100	ENERGY, DEPT OF/200W	73		Benton	01	COLUMBIA RIVER	11	13	25E
00100	ENERGY, DEPT OF/200W	73		Benton	02	COLUMBIA RIVER	15	14	26E
00177	ENERGY, DEPT OF/100K	22		Benton	01	COLUMBIA RIVER	32	14	26E
00238	DALLESFORT INDUSTRIAL PARK	56		Klickitat	01	WELL 1	26	02	13E
00238	DALLESFORT INDUSTRIAL PARK	56		Klickitat	02	WELL 2	26	02	13E
00238	DALLESFORT INDUSTRIAL PARK	56		Klickitat	01	WELL 1	26	02	13E
00238	DALLESFORT INDUSTRIAL PARK	56		Klickitat	02	WELL 2	26	02	13E
00552	SIMPLOT FEEDERS LTD	3		Walla Walla	01	WELL 1	34	08	31E
00552	SIMPLOT FEEDERS LTD	3		Walla Walla	03	WELL 3	35	08	31E
00552	SIMPLOT FEEDERS LTD	3		Walla Walla	02	WELL 2	34	08	31E
00682	MURDOCK WATER	33	62	Klickitat	01	KLICKITAT AVE WELL	20	02	13E
00682	MURDOCK WATER	33	62	Klickitat	02	ASH ST WELL	20	02	13E
00710	SNAKE RIVER HOUSING WATER SYSTEM	115	355	Walla Walla	02	WELL 2	30	10	33E
00710	SNAKE RIVER HOUSING WATER SYSTEM	115	355	Walla Walla	02	WELL 2	30	10	33E
00750	ALCOA	1		Chelan	01	WELL 1	31	22	22E
00750	ALCOA	1		Chelan	02	WELL 2	31	22	22E
00750	ALCOA	1		Chelan	01	WELL 1	31	22	22E
00750	ALCOA	1		Chelan	02	WELL 2	31	22	22E
00750	ALCOA	1		Chelan	02	WELL 2	31	22	22E
00750	ALCOA	1		Chelan	01	WELL 1	31	22	22E
00770	COLUMBIA COLSTOR INC	1		Benton	01	WELL 1	23	08	30E
00827	CRESCENT BAR RESORT/LEISURE TIME	126	1	Grant	01	SPRING	18	20	23E
00863	AUVIL FRUIT CO INC	32	95	Kittitas	03	WF/S01,S02	16	15	23E
00863	AUVIL FRUIT CO INC	32	95	Kittitas	02	WELL 2	16	15	23E
00863	AUVIL FRUIT CO INC	32	95	Kittitas	01	WELL 1	16	15	23E
01393	BRISSEY WATER SYSTEM	12	1	Grant	02	WELL 2	18	20	23E
01393	BRISSEY WATER SYSTEM	12	1	Grant	01	WELL 1	18	20	23E
01487	PASCO GOLFLAND INC	2	3	Franklin	01	PRO SHOP WELL	25	09	29E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
01500	PEACH BEACH RV PARK	69		Klickitat	01	WELL 1	04	02	16E
01852	DEER MEADOWS WATER COMPANY INC	129		Lincoln	01	WELL 1	36	28	35E
01852	DEER MEADOWS WATER COMPANY INC	129		Lincoln	03	WF/S01,S02	36	28	35E
01852	DEER MEADOWS WATER COMPANY INC	129		Lincoln	02	WELL 2	36	28	35E
01852	DEER MEADOWS WATER COMPANY INC	129	48	Lincoln	02	WELL 2	36	28	35E
01852	DEER MEADOWS WATER COMPANY INC	129	48	Lincoln	03	WF/S01,S02	36	28	35E
01852	DEER MEADOWS WATER COMPANY INC	129	48	Lincoln	01	WELL 1	36	28	35E
02380	Canoe Ridge Winery	5	2	Benton	01	CANOE RIDGE WELL	35	05	24E
02431	CUSTOM AG SERVICES	1		Benton	01	WELL 1	07	05	26E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49		Douglas	03	WELL 3	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49		Douglas	01	WELL 1	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49		Douglas	02	WELL 2	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49	30	Douglas	04	WF/S01,S02,S03	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49	30	Douglas	03	WELL 3	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49	30	Douglas	02	WELL 2	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49	30	Douglas	01	WELL 1	33	26	21E
02498	DESERT CANYON DOMESTIC WATER SYSTEM	49		Douglas	04	WF/S01,S02,S03	33	26	21E
02735	APPLE ACRES VILLAGE	70		Chelan	03	WELL 4	04	27	23E
02735	APPLE ACRES VILLAGE	70	212	Chelan	02	WELL 2	04	27	23E
02735	APPLE ACRES VILLAGE	70	212	Chelan	01	WELL 1	04	27	23E
02735	APPLE ACRES VILLAGE	70		Chelan	04	WELL 3	04	27	23E
02735	APPLE ACRES VILLAGE	70	212	Chelan	04	WELL 3	04	27	23E
02735	APPLE ACRES VILLAGE	70	212	Chelan	03	WELL 4	04	27	23E
02735	APPLE ACRES VILLAGE	70		Chelan	02	WELL 2	04	27	23E



PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range_ Code
02735	APPLE ACRES VILLAGE	70		Chelan	01	WELL 1	04	27	23E
02942	ARLENES ADDITION	129	650	Walla Walla	01	WELL 1	07	08	31E
02942	ARLENES ADDITION	129	650	Walla Walla	02	WELL 2	07	08	31E
02942	ARLENES ADDITION	129	650	Walla Walla	03	WF(S01,S02)	07	08	31E
03129	CRESCENT VIEW CONDOMINIUM OWNERS	102		Grant	01	WELL 1	19	20	23E
03129	CRESCENT VIEW CONDOMINIUM OWNERS	102	28	Grant	01	WELL 1	19	20	23E
03287	GUNDERSON NORTHWEST INC	1		Benton	01	WELL 1	23	08	30E
03427	AUVIL FRUIT COMPANY INC	32	72	Douglas	03	WELL 3 (NEW)	34	26	21E
03427	AUVIL FRUIT COMPANY INC	32	72	Douglas	01	WELL 1	33	26	21E
03427	AUVIL FRUIT COMPANY INC	32	72	Douglas	02	WELL 2	33	26	21E
03523	AZWELL ORCHARDS	47	28	Chelan	01	WELL 1	07	28	24E
04524	GETTYS COVE	54	5	Kittitas	01	WELL 1	18	16	23E
04907	ORONDO SCHOOL	1		Douglas	01	WELL 1	28	25	21E
05103	BURBANK LIBRARY WATER SYSTEM	1		Walla Walla	01	WELL 1	01	08	30E
05133	CONCERT CAMPING INC	2		Grant	01	WELL 1	30	19	23E
05219	JUBILEE YOUTH RANCH	18	65	Walla Walla	01	WELL 1	02	10	33E
05676	ORONDO FRUIT COMPANY INC	2	1	Douglas	01	WELL 1	32	25	21E
05836	BAUERS LANDING LODGE	123	160	Douglas	01	WELL 1	15	26	21E
06152	Watts Brothers Frozen Foods	1		Benton	01	WELL 1	03	05	26E
06350	BEVERLY WATER DISTRICT	57	120	Grant	01	WELL 1	34	16	23E
06643	BOISE CASCADE TRUCKING DIVISION	2		Walla Walla	01	WELL 1	10	07	31E
06652	RIVERVIEW WATER USERS ASSN	23		Okanoga n	01	COULEE DAM WATER DEPT/15400V	30	29	31E
07083	CHELAN CO PUD - BEEBE PARK	47	2	Douglas	01	WELL 1	29	27	23E
07216	WATERING HOLE, THE	3	4	Ferry	01	WELL1/ABJ680	08	37	37E
07335	JN CAMP - BUCKHORN MT ORCHARDS	24	2	Okanoga n	02	WELL 2	10	30	25E
07345	WALKER S LONE PINE ORCHARD	4	5	Douglas	01	WELL 1	12	26	22E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
07363	SKEELS, CLYDE WATER SYSTEM	3	4	Grant	01	WELL 1	17	20	23E
07597	BOISE CASCADE CORP - WALLULA	1		Walla Walla	01	COLUMBIA RIVER	10	07	31E
07664	COLUMBIA SCHOOL DISTRICT 206	1		Stevens	01	WELL 1	07	30	37E
07842	WISHBONE WELL	2	1	Klickitat	01	WISHBONE WELL	27	03	12E
07870	P AND G ORCHARDS CAMP 2	31	116	Okanoga n	01	CAMP 2 WELL	09	30	25E
07993	CUSTOM ORCHARD 1	16	18	Okanoga n	01	WELL 1	15	30	24E
08136	DALLESFORT MOBILE HOME PARK	44	135	Klickitat	01	WELL 1	28	02	13E
08136	DALLESFORT MOBILE HOME PARK	44	135	Klickitat	02	018425/PROSPECT WATER ASSN INC	28	02	13E
08174	COLUMBIA CEDAR	1		Ferry	02	AEP748/WELL 1	33	37	37E
08174	COLUMBIA CEDAR	1		Ferry	01	NANCY CREEK	33	37	37E
08300	BREWSTER, CITY OF	675		Okanoga n	01	WELL 1	15	30	24E
08300	BREWSTER, CITY OF	675		Okanoga n	05	WF/SO1,2	15	30	24E
08300	BREWSTER, CITY OF	675		Okanoga n	03	CANYON WELL	11	30	24E
08300	BREWSTER, CITY OF	675		Okanoga n	02	WELL 2	15	30	24E
08300	BREWSTER, CITY OF	675	2055	Okanoga n	05	WF/SO1,2	15	30	24E
08300	BREWSTER, CITY OF	675	2055	Okanoga n	03	CANYON WELL	11	30	24E
08300	BREWSTER, CITY OF	675	2055	Okanoga n	02	WELL 2	15	30	24E
08300	BREWSTER, CITY OF	675	2055	Okanoga n	01	WELL 1	15	30	24E
08343	BAR DEVELOPMENT WATER USERS	26	29	Douglas	01	WELL 1	28	30	25E
08350	BRIDGEPORT, CITY OF	577	2075	Douglas	02	WELL 2	14	29	25E
08350	BRIDGEPORT, CITY OF	577		Douglas	03	WELL 3	23	29	25E
08350	BRIDGEPORT, CITY OF	577		Douglas	01	WELL 1	15	29	25E
08350	BRIDGEPORT, CITY OF	577		Douglas	03	WELL 3	23	29	25E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
08350	BRIDGEPORT, CITY OF	577	2075	Douglas	01	WELL 1	15	29	25E
08350	BRIDGEPORT, CITY OF	577		Douglas	02	WELL 2	14	29	25E
08690	BROETJE ORCHARDS	10	37	Walla Walla	01	WELL 1	25	10	32E
09300	BURBANK IRRIGATION DISTRICT 4	208	512	Walla Walla	03	WELL 3	11	08	30E
09300	BURBANK IRRIGATION DISTRICT 4	208		Walla Walla	03	WELL 3	11	08	30E
09300	BURBANK IRRIGATION DISTRICT 4	208		Walla Walla	02	WELL 2	02	08	30E
09300	BURBANK IRRIGATION DISTRICT 4	208		Walla Walla	01	WELL 1	02	08	30E
09300	BURBANK IRRIGATION DISTRICT 4	208	512	Walla Walla	02	WELL 2	02	08	30E
09300	BURBANK IRRIGATION DISTRICT 4	208	512	Walla Walla	01	WELL 1	02	08	30E
09350	BURBANK HEIGHTS	59	177	Walla Walla	02	WELL 2	36	09	30E
09350	BURBANK HEIGHTS	59	177	Walla Walla	01	WELL 1	36	08	30E
09355	BURBANK LDS CHURCH	1		Walla Walla	01	WELL 1	06	08	31E
09626	CHARBONNEAU PARK	33		Walla Walla	01	WELL 1 (OLD)	17	09	32E
09626	CHARBONNEAU PARK	33		Walla Walla	02	WELL 2 (NEW)	17	09	32E
09639	FISHHOOK PARK	45		Walla Walla	01	WELL 2	26	10	32E
09651	HOOD PARK	15		Walla Walla	01	WELL 2	35	09	30E
09677	ICE HARBOR DAM	2		Walla Walla	02	WELL 2	24	09	31E
09677	ICE HARBOR DAM	2		Walla Walla	01	WELL 1	24	09	31E
09677	ICE HARBOR DAM	2		Walla Walla	03	WELL 3	24	09	31E
10085	BUTTE RANCH	11	22	Chelan	02	WELL 2	09	26	22E
10085	BUTTE RANCH	11	22	Chelan	01	WELL 1	09	26	22E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
11161	MINI-PEARL WATER SYSTEM	9	27	Walla Walla	01	WELL	36	09	30E
12284	CHELAN CO PUD 1	4304		Chelan	01	NORTH BANK WELLS 1&2	28	23	20E
12284	CHELAN CO PUD 1	4304		Chelan	03	WEN REGION/943507	35	24	20E
12350	CHELAN FALLS WATER DISTRICT	118	295	Chelan	02	WELL 1	30	27	23E
12350	CHELAN FALLS WATER DISTRICT	118	295	Chelan	03	WELL 2	30	27	23E
12350	CHELAN FALLS WATER DISTRICT	118	295	Chelan	04	WF/S01,S02	30	27	23E
12350	CHELAN FALLS WATER DISTRICT	118		Chelan	02	WELL 1	30	27	23E
12350	CHELAN FALLS WATER DISTRICT	118		Chelan	03	WELL 2	30	27	23E
12350	CHELAN FALLS WATER DISTRICT	118		Chelan	04	WF/S01,S02	30	27	23E
12490	TURTLE ROCK HOMEOWNERS ASSOCIATION	44	133	Chelan	01	WELL 1	24	24	20E
12631	ROCK ISLAND HYDRO PARK	1		Douglas	01	ROCK ISLAND HYDRO	24	22	20E
12690	AGRIUM - KENNEWICK AREA	1		Benton	01	WELL P-512-0	23	08	30E
14129	COLUMBIA ELEMENTARY SCHOOL	2		Walla Walla	01	WELL 1	01	08	30E
14131	TYSON FRESH MEATS INC	1		Walla Walla	01	WELL 1	28	08	31E
14131	TYSON FRESH MEATS INC	1		Walla Walla	02	00552Y/SIMPLOT FEEDERS LTD	35	08	31E
14131	TYSON FRESH MEATS INC	1		Walla Walla	03	WELL 3	34	08	31E
14145	COLUMBIA HIGH SCHOOL	5		Walla Walla	01	WELL 1	01	08	30E
14174	CRO FARMS INC	46	150	Douglas	01	BP170	22	21	22E
14174	CRO FARMS INC	46	150	Douglas	02	CRO 2	33	21	22E
14176	COLUMBIA VIEW WATER SYSTEM	116	350	Walla Walla	02	WELL 2 RAY BLVD	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116		Walla Walla	01	WELL 1 556 RINGHOFF	12	08	30E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
14176	COLUMBIA VIEW WATER SYSTEM	116		Walla Walla	03	WELL 3 108 RINGHOFF	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116		Walla Walla	02	WELL 2 RAY BLVD	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116	350	Walla Walla	03	WELL 3 108 RINGHOFF	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116	350	Walla Walla	01	WELL 1 556 RINGHOFF	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116	350	Walla Walla	01	WELL 1 556 RINGHOFF	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116	350	Walla Walla	03	WELL 3 108 RINGHOFF	12	08	30E
14176	COLUMBIA VIEW WATER SYSTEM	116	350	Walla Walla	02	WELL 2 RAY BLVD	12	08	30E
15077	DALLESFORT DOMESTIC WATER SHARERS	14	32	Klickitat	01	WELL 1	28	02	13E
15400	COULEE DAM WATER DEPT	514	1161	Okanoga n	02	EAST SIDE WATER	01	28	30E
15400	COULEE DAM WATER DEPT	514		Okanoga n	02	EAST SIDE WATER	01	28	30E
15818	CRANE & CRANE INC	28	78	Douglas	01	WELL 1	28	30	24E
15947	CRESCENT BAR OUTDOOR REC CLUB	51	3	Douglas	01	WELL 1	14	20	22E
15950	CRESCENT BAR SYSTEM	470	120	Grant	01	ABR075/WELL 1	19	20	23E
15950	CRESCENT BAR SYSTEM	470	120	Grant	02	ABR749/WELL 2	19	20	23E
15950	CRESCENT BAR SYSTEM	470	120	Grant	03	IRRIGATION PUMP 2	19	20	23E
15950	CRESCENT BAR SYSTEM	470		Grant	03	IRRIGATION PUMP 2	19	20	23E
15950	CRESCENT BAR SYSTEM	470		Grant	02	ABR749/WELL 2	19	20	23E
15950	CRESCENT BAR SYSTEM	470		Grant	01	ABR075/WELL 1	19	20	23E
17166	COLUMBIA PARK - CAMPGROUND	39		Benton	01	WELL 1	29	09	29E
17166	COLUMBIA PARK - CAMPGROUND	39		Benton	02	WELL 2	28	09	29E
17715	DALLESFORT WATER ASSOCIATION	197	398	Klickitat	01	WELL 1	34	02	13E
17715	DALLESFORT WATER ASSOCIATION	197	398	Klickitat	02	WELL 2	34	02	13E
18180	THE HOMESTEAD MANUFACTURED HOUSING	104	300	Benton	02	WELL 1	16	08	30E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Township _Code	Src_Range_ Code
18180	THE HOMESTEAD MANUFACTURED HOUSING	104	300	Benton	03	WELL 2	16	08	30E
18180	THE HOMESTEAD MANUFACTURED HOUSING	104	300	Benton	04	WELL 3	16	08	30E
19056	DESERT AIRE OWNER ASSN	1017	1174	Grant	02	WELL 2 NORTH WELL	22	14	23E
19056	DESERT AIRE OWNER ASSN	1017		Grant	05	WELL 6 AIRPORT WELL	22	14	23E
19056	DESERT AIRE OWNER ASSN	1017	1174	Grant	03	WELL 3 SOUTH WELL	26	14	23E
19056	DESERT AIRE OWNER ASSN	1017	1174	Grant	04	WELL 4	22	14	23E
19056	DESERT AIRE OWNER ASSN	1017	1174	Grant	05	WELL 6 AIRPORT WELL	22	14	23E
19056	DESERT AIRE OWNER ASSN	1017		Grant	04	WELL 4	22	14	23E
19056	DESERT AIRE OWNER ASSN	1017		Grant	03	WELL 3 SOUTH WELL	26	14	23E
19056	DESERT AIRE OWNER ASSN	1017		Grant	02	WELL 2 NORTH WELL	22	14	23E
19060	DESERT HOUSE CAFE & GROCERY	10	15	Benton	01	WELL 1	07	05	26E
19060	DESERT HOUSE CAFE & GROCERY	10	15	Benton	02	AFS942/WELL 1	07	05	26E
19910	DOWNING TOWNSITE WATER DISTRICT	50		Douglas	04	WF/S01,2,3	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50		Douglas	03	WELL 3	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50		Douglas	01	WELL 1	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50		Douglas	02	WELL 2	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50	153	Douglas	02	WELL 2	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50	153	Douglas	03	WELL 3	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50	153	Douglas	01	WELL 1	03	29	25E
19910	DOWNING TOWNSITE WATER DISTRICT	50	153	Douglas	04	WF/S01,2,3	03	29	25E



PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Township _Code	Src_Range _Code
19928	HANSON HARBOR HOMEOWNERS ASSN	37	27	Lincoln	01	WELL 1	13	28	33E
20116	RANTZ MARINE PARK	17		Lincoln	01	WELL 1	20	28	34E
20327	MINOR ADDITION WATER SUPPLY	8	15	Klickitat	01	WELL 1	16	02	13E
20527	MOUNTAIN VIEW ASSOCIATION	21	42	Klickitat	01	WELL 1	28	02	13E
21114	ROOSEVELT PARK	3		Klickitat	01	WELL 1	20	03	21E
21151	SUNDALE FRUIT COMPANY LLC	15	21	Klickitat	01	WELL 1	28	03	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	03	WELL 2(C)	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	07	WELL 3	22	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	01	WELL 2 A,B,C	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	05	WEN REG/943507	19	22	21E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	08	WEN REG/943507	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	06	WEN REG/943507	19	22	21E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	10	WEN REG/943507	19	22	21E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	04	WELL 6	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	09	WF/S01,S03	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	03	WELL 2(C)	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	10	WEN REG/943507	19	22	21E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	11	943507/WENATCHEE, CITY OF	35	24	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	09	WF/S01,S03	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	06	WEN REG/943507	19	22	21E
21800	EAST WENATCHEE WATER DISTRICT	10143	24645	Douglas	11	943507/WENATCHEE, CITY OF	35	24	20E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_Num	Src_Name	Src_Sect_Num	Src_Township_Code	Src_Range_Code
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	05	WEN REG/943507	19	22	21E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	04	WELL 6	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	08	WEN REG/943507	34	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	07	WELL 3	22	23	20E
21800	EAST WENATCHEE WATER DISTRICT	10143		Douglas	01	WELL 2 A,B,C	34	23	20E
22285	EATON PARK SUBDIVISION	21	50	Benton	01	WELL 1	09	08	30E
23120	ELMER CITY WATER SYSTEM	142	267	Okanogan	01	WELL 1	20	29	31E
23120	ELMER CITY WATER SYSTEM	142	267	Okanogan	02	WELL 2	20	29	31E
23120	ELMER CITY WATER SYSTEM	142	267	Okanogan	02	WELL 2	20	29	31E
23120	ELMER CITY WATER SYSTEM	142	267	Okanogan	01	WELL 1	20	29	31E
23324	RIVER RUE WATER SYSTEM	96	3	Lincoln	01	WELL 1	20	28	33E
23391	SUNNY HILLS WATER SYSTEM	23		Lincoln	01	WELL 1	11	28	31E
23391	SUNNY HILLS WATER SYSTEM	23	20	Lincoln	01	WELL 1	11	28	31E
23500	ENTIAT, CITY OF	503	995	Chelan	01	WELL 1	09	25	21E
23500	ENTIAT, CITY OF	503		Chelan	01	WELL 1	09	25	21E
23500	ENTIAT, CITY OF	503		Chelan	02	WELL 2	09	25	21E
23500	ENTIAT, CITY OF	503		Chelan	03	WF/S01,2	09	25	21E
23500	ENTIAT, CITY OF	503	995	Chelan	03	WF/S01,2	09	25	21E
23500	ENTIAT, CITY OF	503	995	Chelan	02	WELL 2	09	25	21E
24162	EVERGREEN SCHOOL DISTRICT #205	1		Stevens	01	WELL 1	04	33	37E
25041	MARYHILL MUSEUM OF ART	2	1	Klickitat	01	SPRING	06	02	16E
25115	FINLEY SCHOOL DISTRICT #53	1		Benton	04	HIGH SCHOOL	22	08	30E
25115	FINLEY SCHOOL DISTRICT #53	1		Benton	01	AG. SHOP	22	08	30E
25115	FINLEY SCHOOL DISTRICT #53	1		Benton	03	NORTH WELL	22	08	30E
25115	FINLEY SCHOOL DISTRICT #53	1		Benton	02	ELEM.	22	08	30E
25120	THE FINLEY SHOPPER	2		Benton	02	WELL 2	23	08	30E
25120	THE FINLEY SHOPPER	2		Benton	01	WELL 1	23	08	30E
26111	NORTH ROOSEVELT WATER ASSN	15	18	Klickitat	02	WELL 2	09	03	21E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
26111	NORTH ROOSEVELT WATER ASSN	15	18	Klickitat	01	WELL 1	09	03	21E
28695	GRAND COULEE DAM	14		Grant	05	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	04	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	03	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	03	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	01	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	05	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	04	FDR LAKE	01	28	30E
28695	GRAND COULEE DAM	14		Grant	01	FDR LAKE	01	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511		Grant	02	LAKE ROOSEVELT	01	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511	926	Grant	01	LAKE ROOSEVELT	12	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511	926	Grant	02	LAKE ROOSEVELT	01	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511	926	Grant	03	CRESCENT LK WELL 1	12	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511	926	Grant	04	CRESCENT LK WELL 2	12	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511		Grant	01	LAKE ROOSEVELT	12	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511		Grant	03	CRESCENT LK WELL 1	12	28	30E
28700	GRAND COULEE WATER DEPT, CITY OF	511		Grant	04	CRESCENT LK WELL 2	12	28	30E
29075	WANAPUM INDIAN VILLAGE	13	50	Yakima	01	WELL 2	02	13	23E
29076	PRIEST RAPIDS POWERPLANT	1		Grant	01	WELL 1	02	13	23E
29080	WANAPUM POWERPLANT	2		Grant	01	WELL 1	17	16	23E
29082	WANAPUM VILLAGE	31	55	Grant	02	WELL 2	21	16	23E
29082	WANAPUM VILLAGE	31	55	Grant	01	WELL 1	21	16	23E
29082	WANAPUM VILLAGE	31	55	Grant	03	WELL 3	21	16	23E
29903	GRIGGS, MARCUS	11	15	Douglas	01	WELL 1	21	25	21E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212	656	Walla Walla	01	WELL 1	12	08	30E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212	656	Walla Walla	03	WELL 3	12	08	30E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212	656	Walla Walla	04	WELL 4	12	08	30E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_Num	Src_Name	Src_Sect_Num	Src_Townshp_Code	Src_Range_Code
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212		Walla Walla	01	WELL 1	12	08	30E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212		Walla Walla	02	WELL 2	12	08	30E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212		Walla Walla	03	WELL 3	12	08	30E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212		Walla Walla	04	WELL 4	12	08	30E
31477	HARRISON-RAY-BURBANK WATER SYSTEM	212	656	Walla Walla	02	WELL 2	12	08	30E
32810	HIGHLAND ORCHARDS	3	10	Douglas	02	WELL 2	03	29	26E
32810	HIGHLAND ORCHARDS	3	10	Douglas	01	WELL 1	03	29	26E
33301	NORTH LAKE ROOSEVELT RESORT	49	12	Ferry	01	WELL 1	21	37	37E
33489	LAKESIDE PARK	29	75	Ferry	01	WELL 1	11	36	37E
34889	HUNTERS WATER DISTRICT	74	160	Stevens	01	WELL 1	07	30	37E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	07	WELL 5	35	33	36E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	02	LITTLE WELL	35	33	36E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	06	WELL 4	35	33	36E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	04	SUB-AGENCY WELL	35	33	36E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	03	WF/S06,7	35	33	36E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	01	BIG WELL (HALL CR.)	35	33	36E
35550	INCHELIUM WATER DISTRICT	207	346	Ferry	05	WF/S01,2	35	33	36E
36087	ISENHART IRRIGATION DISTRICT	15	30	Chelan	01	LAKE CHELAN	17	27	23E
37921	KB ALLOYS INC	1		Chelan	01	WELL 1	27	22	21E
38100	KENNEWICK, CITY OF	20531	64144	Benton	01	RANNEY COLLECTOR 1	31	09	30E
38100	KENNEWICK, CITY OF	20531	64144	Benton	04	RANNEY COLLECTOR 4	35	09	29E
38100	KENNEWICK, CITY OF	20531	64144	Benton	02	RANNEY COLLECTOR 2	31	09	30E
38100	KENNEWICK, CITY OF	20531	64144	Benton	03	RANNEY COLLECTOR 3	31	09	30E
38100	KENNEWICK, CITY OF	20531	64144	Benton	06	COLUMBIA RIVER	31	09	30E
38100	KENNEWICK, CITY OF	20531	64144	Benton	05	RANNEY COLLECTOR 5	35	09	29E
38400	KETTLE FALLS WATER DEPT	983		Stevens	05	WF/SO2,3,4,5	30	36	38E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
38400	KETTLE FALLS WATER DEPT	983	2890	Stevens	05	WF/SO2,3,4,5	30	36	38E
38400	KETTLE FALLS WATER DEPT	983	2890	Stevens	06	WELL 5	30	36	38E
38400	KETTLE FALLS WATER DEPT	983	2890	Stevens	04	WELL 4	30	36	38E
38400	KETTLE FALLS WATER DEPT	983	2890	Stevens	01	THE FALLS	11	36	37E
38400	KETTLE FALLS WATER DEPT	983		Stevens	01	THE FALLS	11	36	37E
38400	KETTLE FALLS WATER DEPT	983	2890	Stevens	03	WELL 3	30	36	38E
38400	KETTLE FALLS WATER DEPT	983	2890	Stevens	02	WELL 2	30	36	38E
38400	KETTLE FALLS WATER DEPT	983		Stevens	06	WELL 5	30	36	38E
38400	KETTLE FALLS WATER DEPT	983		Stevens	02	WELL 2	30	36	38E
38400	KETTLE FALLS WATER DEPT	983		Stevens	03	WELL 3	30	36	38E
38400	KETTLE FALLS WATER DEPT	983		Stevens	04	WELL 4	30	36	38E
40951	PATS RANCHMART INC	3	4	Klickitat	01	WELL 1	33	03	16E
41840	ENERGY, DEPT OF/300 AREA	47		Benton	01	COLUMBIA RIVER	11	10	28E
41853	ENERGY, DEPT OF/100N	13		Benton	01	COLUMBIA RIVER	11	13	25E
41853	ENERGY, DEPT OF/100N	13		Benton	02	COLUMBIA RIVER	15	14	26E
41866	ENERGY, DEPT OF/200E	76		Benton	02	COLUMBIA RIVER	15	14	26E
41866	ENERGY, DEPT OF/200E	76		Benton	01	COLUMBIA RIVER	11	13	25E
45366	LAKEVIEW TERRACE MHP	75	125	Lincoln	02	WELL 2	20	28	31E
45366	LAKEVIEW TERRACE MHP	75		Lincoln	01	WELL 1	20	28	31E
45366	LAKEVIEW TERRACE MHP	75		Lincoln	02	WELL 2	20	28	31E
45366	LAKEVIEW TERRACE MHP	75	125	Lincoln	01	WELL 1	20	28	31E
46940	LEVEY PARK	2		Franklin	01	WELL 1	08	09	32E
47283	ROOSEVELT LAKE RANCH	102		Lincoln	01	LINCOLN WELL	20	27	35E
47283	ROOSEVELT LAKE RANCH	102	108	Lincoln	01	LINCOLN WELL	20	27	35E
47283	ROOSEVELT LAKE RANCH	102	108	Lincoln	02	WELL 2	20	27	35E
47283	ROOSEVELT LAKE RANCH	102		Lincoln	02	WELL 2	20	27	35E
47900	LONE PINE WATER ASSN	24	32	Okanoga n	01	WELL 1	30	29	31E
48720	LOWER MONUMENTAL DAM - NORTH	2		Franklin	02	WELL 2	34	13	34E
48720	LOWER MONUMENTAL DAM - NORTH	2		Franklin	01	WELL 1	34	13	34E
49000	LYLE WATER SYSTEM	285		Klickitat	01	RAIL ROAD WELL	03	02	12E
49000	LYLE WATER SYSTEM	285		Klickitat	04	LOWER RESERVOIR WELL	34	03	12E
49000	LYLE WATER SYSTEM	285	455	Klickitat	03	UPPER RESERVOIR WELL	34	03	12E
49000	LYLE WATER SYSTEM	285		Klickitat	03	UPPER RESERVOIR WELL	34	03	12E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
49000	LYLE WATER SYSTEM	285	455	Klickitat	02	JAMES WELL	03	02	12E
49000	LYLE WATER SYSTEM	285	455	Klickitat	01	RAIL ROAD WELL	03	02	12E
49000	LYLE WATER SYSTEM	285	455	Klickitat	04	LOWER RESERVOIR WELL	34	03	12E
49000	LYLE WATER SYSTEM	285		Klickitat	02	JAMES WELL	03	02	12E
50500	MALAGA WATER DISTRICT	361	890	Chelan	02	WELL 2	32	22	21E
50500	MALAGA WATER DISTRICT	361	890	Chelan	01	WELL 1	32	22	21E
50500	MALAGA WATER DISTRICT	361	890	Chelan	03	WF/S01,S02	32	22	21E
50500	MALAGA WATER DISTRICT	361		Chelan	03	WF/S01,S02	32	22	21E
50500	MALAGA WATER DISTRICT	361		Chelan	02	WELL 2	32	22	21E
50500	MALAGA WATER DISTRICT	361		Chelan	01	WELL 1	32	22	21E
51714	CORRAL SPRINGS WATER SYSTEM	1		Douglas	01	CORRAL SPRINGS	15	27	23E
51714	CORRAL SPRINGS WATER SYSTEM	1		Douglas	02	WELL 1	16	27	23E
51714	CORRAL SPRINGS WATER SYSTEM	1	1	Douglas	01	CORRAL SPRINGS	15	27	23E
51714	CORRAL SPRINGS WATER SYSTEM	1	1	Douglas	02	WELL 1	16	27	23E
51764	BJ LINCOLN ROCK	1		Douglas	01	WELL 1	36	24	20E
51877	MARTIN CREEK COMMUNITY ASSN	36	73	Ferry	01	WELL 1	17	35	37E
51877	MARTIN CREEK COMMUNITY ASSN	36	73	Ferry	02	WELL 2	17	35	37E
52745	NELSON & NOACK WATER SYSTEM	17	20	Douglas	01	WELL 1	10	26	22E
53263	KELLEYS ESTATES	51	85	Benton	03	WF/S01,S02	22	08	30E
53263	KELLEYS ESTATES	51	85	Benton	01	WELL 1	22	08	30E
53263	KELLEYS ESTATES	51	85	Benton	02	WELL 2	22	08	30E
54380	METZ WATER ASSOCIATION	90	250	Benton	01	WELL 1	07	08	30E
62514	GORGE AMPHITHEATRE	11		Grant	02	WINERY WELL	31	19	23E
62514	GORGE AMPHITHEATRE	11		Grant	01	SUMMER MUSIC THEATER	31	19	23E
63913	WATTS BROS FARMS	23	37	Benton	01	AIRSTRIIP WELL	28	05	24E
64380	ORONDO WATER SYSTEM	8	20	Douglas	01	WELL 1	32	25	21E
64850	OTHELLO WATER DEPARTMENT	2050	6050	Adams	07	WELL 5	03	05	29E
65066	OX TEAM ORCHARD	24	19	Douglas	01	WELL 1	02	23	20E



PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
66350	PASCO HEIGHTS DOMESTIC WATER ASSN	44	135	Franklin	02	WELL 2	30	10	29E
66350	PASCO HEIGHTS DOMESTIC WATER ASSN	44	135	Franklin	03	NEW WELL 1	30	10	29E
66350	PASCO HEIGHTS DOMESTIC WATER ASSN	44	135	Franklin	01	WELL 1	19	10	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	02	WELL 1A&1B	18	09	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	08	WP WELL 1B	18	09	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	07	WP WELL 1A	18	09	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	06	WP WF/S03,4,7,8	18	09	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	05	DRADIE ST WELL 4	22	09	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	04	WP WELL 3	18	09	29E
66400	PASCO WATER DEPARTMENT	11771		Franklin	03	WP WELL 2	18	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	02	WELL 1A&1B	18	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	08	WP WELL 1B	18	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	07	WP WELL 1A	18	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	06	WP WF/S03,4,7,8	18	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	05	DRADIE ST WELL 4	22	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	04	WP WELL 3	18	09	29E
66400	PASCO WATER DEPARTMENT	11771	44190	Franklin	03	WP WELL 2	18	09	29E
66450	PATEROS WATER DEPARTMENT	253	615	Okanoga	03	WF/S01,S02	36	30	23E
66450	PATEROS WATER DEPARTMENT	253	615	Okanoga	02	WELL 2	36	30	23E
66450	PATEROS WATER DEPARTMENT	253	615	Okanoga	01	WELL 1	36	30	23E
66475	PATERSON ELEMENTARY SCHOOL	3	8	Benton	01	WELL 1	07	05	26E
66479	PATERSON HEIGHTS WATER ASSN	29	56	Benton	01	WELL 1	08	05	26E
66489	PATHFINDER MOBILE HOME PARK	49	73	Franklin	03	WELL 3	16	09	29E
66489	PATHFINDER MOBILE HOME PARK	49	73	Franklin	01	WELL 1	16	09	29E
66489	PATHFINDER MOBILE HOME PARK	49	73	Franklin	02	WELL 2	16	09	29E
68045	PLYMOUTH WATER DISTRICT	66	190	Benton	02	CORP OF ENGR	08	05	28E
68045	PLYMOUTH WATER DISTRICT	66	190	Benton	01	BNRR	06	05	28E
68800	ORONDO RIVER PARK	16		Douglas	01	WELL 1	16	25	21E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
68825	PASCO, PORT OF 210	75		Franklin	01	WELL 1	04	08	30E
72250	RICHLAND, CITY OF	15354	43520	Benton	05	COLUMBIA WELL	35	10	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	04	N RICHLAND WF	26	10	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	01	COLUMBIA RIVER	35	10	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	02	WLSN WY/S12-15	15	09	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	03	DUKE WF/S16,17	35	10	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	13	WELL 5	15	09	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	17	WELL 1100-8	35	10	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	15	WELL 13A	15	09	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	14	WELL 14	15	09	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	12	WELL 4	15	09	28E
72250	RICHLAND, CITY OF	15354	43520	Benton	16	WELL 1100D	35	10	28E
73032	RIVERWOOD WATER SYSTEM	18	42	Ferry	02	WELL 2	14	36	37E
73032	RIVERWOOD WATER SYSTEM	18	42	Ferry	01	WELL 1	14	36	37E
73032	RIVERWOOD WATER SYSTEM	18		Ferry	03	WF/S01,S02	14	36	37E
73032	RIVERWOOD WATER SYSTEM	18		Ferry	01	WELL 1	14	36	37E
73032	RIVERWOOD WATER SYSTEM	18		Ferry	02	WELL 2	14	36	37E
73032	RIVERWOOD WATER SYSTEM	18	42	Ferry	03	WF/S01,S02	14	36	37E
73400	ROCK ISLAND DAM POWERHOUSE I	2		Douglas	01	WELL 1	32	22	22E
73401	City of Rock Island Water Dept	301		Douglas	03	WELL 3	23	22	21E
73401	City of Rock Island Water Dept	301		Douglas	02	WELL 2	23	22	21E
73401	City of Rock Island Water Dept	301	739	Douglas	03	WELL 3	23	22	21E
73401	City of Rock Island Water Dept	301	739	Douglas	02	WELL 2	23	22	21E
73630	ROCKY BUTTE WATER	45	111	Douglas	02	WELL 2	33	30	25E
73630	ROCKY BUTTE WATER	45	111	Douglas	01	WELL 1	33	30	25E
73630	ROCKY BUTTE WATER	45	111	Douglas	03	WF/S01,S02	33	30	25E
74160	ROOSEVELT WATER SYSTEM	46	60	Klickitat	01	AFL832 WELL 1	17	03	21E
74160	ROOSEVELT WATER SYSTEM	46		Klickitat	01	AFL832 WELL 1	17	03	21E
76468	GOOD NEIGHBORS WATER ASSN	18	40	Benton	01	WELL 1	09	08	30E
76620	SENTINEL GAP WATER ASSN	54	150	Grant	02	WELL 2	03	15	23E
76620	SENTINEL GAP WATER ASSN	54		Grant	02	WELL 2	03	15	23E
77000	SEATONS GROVE COMMUNITY ULID 2	36	90	Okanoga n	01	SEATONS SPRING	17	29	31E
77000	SEATONS GROVE COMMUNITY ULID 2	36	90	Okanoga n	02	PETER DAN CANYON WELL	17	29	31E
77000	SEATONS GROVE COMMUNITY ULID 2	36		Okanoga n	02	PETER DAN CANYON WELL	17	29	31E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
77000	SEATONS GROVE COMMUNITY ULID 2	36		Okanoga n	01	SEATONS SPRING	17	29	31E
77651	SEVEN BAYS ESTATES UNLIMITED	242	250	Lincoln	01	WELL 1	12	27	35E
77651	SEVEN BAYS ESTATES UNLIMITED	242	250	Lincoln	02	WELL 2 (MAIN)	13	27	35E
80798	SNAKE RIVER VINEYARDS	3	3	Walla Walla	01	WELL 1	29	09	32E
85124	SUN COVE PUBLIC WATER SYSTEM	361		Douglas	01	WELL 1	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	02	WELL 2	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	03	WF/S01,2	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	01	WELL 1	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	04	WELL 3	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	02	WELL 2	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	03	WF/S01,2	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	01	WELL 1	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361	288	Douglas	04	WELL 3	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361		Douglas	03	WF/S01,2	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361		Douglas	04	WELL 3	11	26	21E
85124	SUN COVE PUBLIC WATER SYSTEM	361		Douglas	02	WELL 2	11	26	21E
85129	SUN HARBOR WATER DISTRICT #3	72		Walla Walla	02	WELL 2	20	09	32E
85129	SUN HARBOR WATER DISTRICT #3	72	187	Walla Walla	03	WELL 5	17	09	32E
85129	SUN HARBOR WATER DISTRICT #3	72	187	Walla Walla	02	WELL 2	20	09	32E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
85129	SUN HARBOR WATER DISTRICT #3	72		Walla Walla	03	WELL 5	17	09	32E
85129	SUN HARBOR WATER DISTRICT #3	72	187	Walla Walla	01	WELL 1	20	09	32E
85129	SUN HARBOR WATER DISTRICT #3	72		Walla Walla	01	WELL 1	20	09	32E
85209	SUNDANCE IMPROVEMENT ASSOCIATION	26	100	Benton	01	WELL 1	02	08	30E
85240	SUNLAND ESTATES HOMEOWNERS ASSN	568	150	Grant	03	WF/S01,S02	02	18	22E
85240	SUNLAND ESTATES HOMEOWNERS ASSN	568	150	Grant	01	WELL 1	02	18	22E
85240	SUNLAND ESTATES HOMEOWNERS ASSN	568	150	Grant	02	WELL 2	02	18	22E
85240	SUNLAND ESTATES HOMEOWNERS ASSN	568	150	Grant	04	WELL 3	02	18	22E
88140	THREE LAKES WATER DISTRICT	238	590	Chelan	01	WELL 1	29	22	21E
88140	THREE LAKES WATER DISTRICT	238	590	Chelan	03	WF/S01,S02	29	22	21E
88140	THREE LAKES WATER DISTRICT	238	590	Chelan	02	WELL 2	29	22	21E
90034	TWIN W ORCHARDS	39	48	Douglas	01	WELL 1	07	26	22E
90034	TWIN W ORCHARDS	39	48	Douglas	03	WELL 3	07	26	22E
90034	TWIN W ORCHARDS	39	48	Douglas	02	WELL 2	07	26	22E
90034	TWIN W ORCHARDS	39	48	Douglas	04	WF/S01,S02	07	26	22E
90070	BENTON COUNTY TWO RIVERS PARK	7		Benton	01	WELL 21	10	08	30E
91250	VANTAGE WATER SYSTEM	73	115	Kittitas	01	WELL 1 UPPER	19	17	23E
91250	VANTAGE WATER SYSTEM	73	115	Kittitas	02	WELL 2 LOWER	19	17	23E
92024	COLUMBIA GENERATING STATION	35		Benton	02	COLUMBIA RIVER	02	11	28E
92600	WALLULA WATER DISTRICT	50	200	Walla Walla	01	WELL 1	14	07	31E
92600	WALLULA WATER DISTRICT	50	200	Walla Walla	02	WELL 2	14	07	31E
93986	DE CHENNE WATER SYSTEM	16	34	Chelan	01	WELL 1	28	22	21E
94220	WELLS HYDROELECTRIC PROJECT	7	6	Chelan	01	WELL 1	06	28	24E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
94220	WELLS HYDROELECTRIC PROJECT	7	6	Chelan	02	WELL 4	06	28	24E
94350	WENATCHEE, CITY OF	7460		Chelan	02	WELL 1	35	24	20E
94350	WENATCHEE, CITY OF	7460		Chelan	01	WF/S02,3,4,5	35	24	20E
94350	WENATCHEE, CITY OF	7460	24000	Chelan	02	WELL 1	35	24	20E
94350	WENATCHEE, CITY OF	7460	24000	Chelan	03	WELL 2	35	24	20E
94350	WENATCHEE, CITY OF	7460		Chelan	04	WELL 3	35	24	20E
94350	WENATCHEE, CITY OF	7460		Chelan	05	WELL 4	35	24	20E
94350	WENATCHEE, CITY OF	7460	24000	Chelan	01	WF/S02,3,4,5	35	24	20E
94350	WENATCHEE, CITY OF	7460	24000	Chelan	04	WELL 3	35	24	20E
94350	WENATCHEE, CITY OF	7460		Chelan	03	WELL 2	35	24	20E
94350	WENATCHEE, CITY OF	7460	24000	Chelan	05	WELL 4	35	24	20E
95047	WESTBOURNE ACRES	35	94	Walla Walla	02	WELL 2	17	08	31E
95047	WESTBOURNE ACRES	35	94	Walla Walla	03	WELL 3	17	08	31E
95047	WESTBOURNE ACRES	35		Walla Walla	01	WELL 1	17	08	31E
95047	WESTBOURNE ACRES	35		Walla Walla	02	WELL 2	17	08	31E
95047	WESTBOURNE ACRES	35	94	Walla Walla	01	WELL 1	17	08	31E
95047	WESTBOURNE ACRES	35		Walla Walla	03	WELL 3	17	08	31E
96350	WHITE SALMON, CITY OF	1744		Klickitat	02	JEWETT SPRINGS	19	03	11E
97480	WINDUST PARK	3		Franklin	01	WELL 1	08	12	34E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	02	COFFIELD SPRING	07	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	10	PUD WELL (UPPER)	07	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	12	COFFIELD SPRINGS COMBINED	07	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	11	PUD WELL (LOWER)	18	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	03	COFFIELD SPRING	07	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	05	COFFIELD WELL	07	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	04	COFFIELD SPRINGS 4/5	12	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	02	COFFIELD SPRING	07	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	12	COFFIELD SPRINGS COMBINED	07	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	03	COFFIELD SPRING	07	02	15E

PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Townshp _Code	Src_Range _Code
97950	WISHRAM WATER SYSTEM	200		Klickitat	06	RAILROAD'S WELL	17	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	09	WEST SPRINGS # 3	12	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	11	PUD WELL (LOWER)	18	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	10	PUD WELL (UPPER)	07	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	01	COFFIELD SPRING	07	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	01	COFFIELD SPRING	07	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	04	COFFIELD SPRINGS 4/5	12	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	05	COFFIELD WELL	07	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	08	WEST SPRINGS # 2	12	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	07	WEST SPRINGS # 1	12	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	06	RAILROAD'S WELL	17	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	07	WEST SPRINGS # 1	12	02	15E
97950	WISHRAM WATER SYSTEM	200	425	Klickitat	08	WEST SPRINGS # 2	12	02	15E
97950	WISHRAM WATER SYSTEM	200		Klickitat	09	WEST SPRINGS # 3	12	02	15E
99104	YAKIMA TRAINING CENTER - POMONA	100		Yakima	09	BADGER GAP KIT	24	24	20E
99104	YAKIMA TRAINING CENTER - POMONA	100		Yakima	09	BADGER GAP KIT	24	24	20E
HD340	KELLER FERRY LANDING	3	5	Lincoln	01	WELL, KELLER FERRY	17	28	33E
HD900	VERNITA REST AREA 1	1		Benton	01	WELL 1	06	13	25E
NP070	CAMP NABOR LEE	12		Stevens	01	WELL 1	01	29	35E
NP110	CLOVERLEAF CAMPGROUND	1		Stevens	01	CLOVERLEAF CAMPGROUN	03	32	37E
NP280	FORT SPOKANE CAMPGROUND	57	2	Lincoln	01	SPRING 1	20	28	36E
NP280	FORT SPOKANE CAMPGROUND	57	2	Lincoln	02	WELL 1	20	28	36E
NP280	FORT SPOKANE CAMPGROUND	57	2	Lincoln	03	WELL 2	20	28	36E
NP300	GIFFORD CAMPGROUND	18		Stevens	01	GIFFORD CAMPGROUND	10	32	37E
NP330	HAAG COVE CAMPGROUND	1		Ferry	01	HAAG COVE WELL	03	35	37E
NP335	HAWK CREEK CAMPGROUND	1		Lincoln	01	HAWK CREEK WELL	30	27	36E
NP380	HUNTERS CAMPGROUND	1		Stevens	01	HUNTERS CAMPGROUND	01	30	36E
NP460	KAMLOOPS ISLAND CAMPGROUND	1		Stevens	01	WELL 1	28	37	37E



PWS ID	ORG NAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect _Num	Src_Township _Code	Src_Range_ Code
NP469	KELLER FERRY MARINA	5		Lincoln	01	WELL 1	17	28	33E
NP470	KELLER FERRY CAMPGROUND	7		Lincoln	01	KELLER FERRY WELL	17	28	33E
NP495	KETTLE RIVER CAMPGROUND	1		Ferry	01	CAMPGROUND WELL	09	37	37E
NP700	PORCUPINE BAY CAMPGROUND	12		Lincoln	01	PORCUPINE BAY WELL	29	28	37E
NP810	SPRING CANYON CAMPGROUND	25		Lincoln	01	SPRING CANYON WELL	16	28	31E
SP100	BRIDGEPORT STATE PARK	39	2	Okanoga n	01	WELL 1	18	29	26E
SP172	CONFLUENCE STATE PARK	82	5	Chelan	01	12284J/CHELAN CO PUD	28	23	20E
SP202	DAROGA STATE PARK NORTH	45	4	Douglas	03	WELL 2	33	25	21E
SP202	DAROGA STATE PARK NORTH	45	4	Douglas	04	WELL 3	33	26	21E
SP202	DAROGA STATE PARK NORTH	45	4	Douglas	01	WELL 1	33	26	21E
SP295	FORT OKANOGAN STATE PARK	2		Okanoga n	01	WELL 1	15	30	25E
SP325	COLUMBIA HILLS STATE PARK	16	3	Klickitat	01	WELL 1	19	02	14E
SP510	MARYHILL STATE PARK	104	4	Klickitat	01	WELL 1	04	02	16E
SP510	MARYHILL STATE PARK	104	4	Klickitat	02	LAKE CELILO	04	02	16E
SP510	MARYHILL STATE PARK	104	4	Klickitat	03	WELL 2	05	02	16E
SP975	WANAPUM STATE PARK	61	3	Kittitas	01	WELL 1	06	16	23E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
05403	LAKEVIEW HEIGHTS WATER SYSTEM	10		Lincoln	01	WELL 1	06	27	36E
04298	COLUMBIA SPRINGS ESTATES	8		Lincoln	01	CS-1	18	28	31E
02717	ORCHARDS AT CRESCENT BAR	21		Grant	01	03129F/CRESCENT VIEW CONDO	18	20	23E
04298	COLUMBIA SPRINGS ESTATES	8		Lincoln	02	CS-2	18	28	31E
41901	SAM HILL S COUNTRY STORE	1	0	Klickitat	01	SPRING	33	03	16E
19536	RIVERVIEW - SCHMIDT	9	24	Klickitat	01	WELL #1	16	02	13E
15804	NORTHDALLES FRUIT & GARDEN TRACTS	9	14	Klickitat	01	WELL 1	28	02	13E
32821	ODOM S WELL	4	9	Klickitat	01	WELL 1	16	02	13E
32589	MARYHILL GARDENS	2	8	Klickitat	01	WELL 1	04	02	16E
22460	GOLDENDALE ALUMINUM	1	0	Klickitat	01	WELL 1	20	03	17E
22401	SMITH RANCH	3	5	Klickitat	01	SPRING	15	02	13E
08138	WAVING TREE	1	0	Klickitat	01	AFH131 WELL 1	05	02	16E
07856	MARYHILL TRIBAL FISHING ACCESS SITE	8	0	Klickitat	01	AEP573 WELL 1	05	02	16E
02679	NEWCASTLE WATER SYSTEM	4	12	Klickitat	01	WELL 1	21	02	13E
02768	SEXTON, GISELA WATER SYSTEM	2	2	Klickitat	01	SEXTON WELL 1	28	02	13E
04518	ELLIS WATER SYSTEM	4	16	Klickitat	01	WELL 1	28	02	13E
22460	GOLDENDALE ALUMINUM	1	0	Klickitat	02	WELL 2	21	03	17E
22460	GOLDENDALE ALUMINUM	1	0	Klickitat	03	AUXWELL	20	03	17E
32094	2J	3	8	Benton	01	WELL 1	05	08	30E
30680	HAMILTON, D. WATER SYSTEM	3	12	Benton	01		22	08	30E
31679	COBB, DONALD	2	5	Benton	01	WELL #1	05	08	30E
30405	HALF ACRE GROCERY	2	4	Benton	01	WELL 1	10	08	30E
28228	GODWIN HOMES INC	2	5	Benton	01	WELL 1	22	08	30E
27836	COX, ROBERT D.	2	5	Benton	01	WELL #1	05	08	30E
33101	SHANE S WATER SYSTEM	4	8	Benton	01	SHANES WATER SYSTEM	05	08	30E
34338	GALLAGHER WATER SYSTEM	3	5	Benton	01	WELL 1	08	08	30E
30531	WILLIAMS COMPOUND WATER SYSTEM	4	5	Benton	01	WELL #1	15	08	30E
30816	BARBEE ORCHARDS RIVER RANCH	13	5	Benton	01	TOM POWERS WELL 1	05	05	26E
34351	SCHMELZER WATER SYSTEM	2	5	Benton	01	WELL 1	07	08	30E
51364	WALLACE WATER SYSTEM	3	8	Benton	01	WELL #1	23	08	30E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
55901	STEIN, ROBERT WATER SYSTEM	2	5	Benton	01	WELL #1	09	08	30E
56046	SAPP, JAMES T	2	5	Benton	01	SAPP WELL	07	08	30E
56169	PARTNERSHIP WATER SYSTEM	3	5	Benton	01	WELL #1	30	09	29E
56662	FINLEY ROAD WATER SYSTEM	2	5	Benton	01	WELL #1	23	08	30E
56714	BLANDS WELL	9	23	Benton	01	WELL #1	15	08	30E
43575	LAGUNA VISTA IMPROVEMENT ASSN	9	22	Benton	01	WELL 1	10	08	30E
62278	GRATER WATER SYSTEM	2	5	Benton	01	WELL #1	07	08	30E
62604	CARSON PUBLIC WATER SYSTEM	2	5	Benton	01	WELL #1	05	08	30E
65465	PACIFIC HIDE & FUR DEPOT	1	3	Benton	01		05	08	30E
67225	AGRIUM - FINLEY AREA	2	0	Benton	01	WEST POTABLE WELL	23	08	30E
69620	PRIORS MOBILE HOME COURT	0	0	Benton	01		08	05	26E
71040	RALLS WATER SYSTEM	8	20	Benton	01	WELL 1	15	08	30E
75883	SANDPIPER MOBILE HOME PARK	8	22	Benton	01	WELL 1	29	05	25E
92030	BALDWIN WATER SYSTEM	4	10	Benton	01	WELL 1	09	08	30E
97465	WINDSOR, LEOLIA WATER SYSTEM	2	5	Benton	01	WELL #1	26	08	30E
56731	PEREZ WATER SYSTEM	2	7	Benton	01	WELL #1	35	08	30E
34478	KEYES WATER SYSTEM	3	10	Benton	01	WELL #1	15	08	30E
34484	ENGBRETSON WATER SYSTEM	3	8	Benton	01	WELL	04	05	26E
34486	CHAPIN WATER SYSTEM	2	5	Benton	01	WELL 1	15	08	30E
34664	PERKINS TRACTS WATER SYSTEM	2	5	Benton	01	WELL #1	16	08	30E
34690	ALLRED WATER SYSTEM	3	5	Benton	01	WELL 1	15	08	30E
36698	BRYANT, BILL WATER SYSTEM	3	10	Benton	01	WELL 1	26	08	30E
38260	TESSENDERLO KERLEY INC	2	0	Benton	01	WELL # 1	25	08	30E
34359	COOK WATER SYSTEM	2	5	Benton	01	WELL #1	08	08	30E
38616	DOUGLASS WATER SYSTEM	3	5	Benton	01	WELL 1	09	08	30E
38646	AGRI NORTHWEST MCNARY FARM WS	5	0	Benton	01	WELL 1	33	06	28E
39029	GENERAL STORE	1	0	Benton	01	WELL #1	15	08	30E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
39151	BENTON CO FIRE DIST 1 STATION 2	2	2	Benton	01	WELL 1	22	08	30E
39489	THOM WATER SYSTEM	2	4	Benton	01	WELL #1	07	08	30E
39540	CHUCK S TRUCK REPAIR	3	3	Benton	01	WELL 1	26	08	30E
41001	FINLEY FIRST BAPTIST CHURCH	1	0	Benton	01	WELL	26	08	30E
26281	REAL, GEORGETTE	2	6	Benton	01	WELL	07	07	31E
38095	THORNTON, NEWT G.	2	8	Benton	01	WELL #1	23	08	30E
03316	BOTTORFF, FRED - DUPLEX	2	5	Benton	01	WELL 1	10	08	30E
03843	LONGLEY POTATO COMPANY	2	2	Benton	01	WELL 1	12	05	25E
03844	CARVER WATER SYSTEM	2	8	Benton	01	CARVER WELL	22	08	30E
03910	MARTIN WELL	4	16	Benton	01	MARTIN WELL	06	07	31E
04094	KING, RUBY WATER SYSTEM	5	13	Benton	01	WELL #1	22	08	30E
04236	CANOE RIDGE VINEYARD	2	0	Benton	01	WELL 1	25	05	24E
03199	SUAREZ, JOSE	2	6	Benton	01	SUAREZ WELL #1	22	08	30E
03167	Part IV Properties Well	7	18	Benton	01	WELL 1	09	08	30E
04841	BURDETT WATER SYSTEM	2	7	Benton	01	WELL 1	15	08	30E
05132	YODER, RICHARD WATER SYSTEM	2	4	Benton	01	WELL #1	08	08	30E
05872	CAMPBELL S WELL	2	3	Benton	01	WELL #1	05	08	30E
06043	HAAKENSON WATER SYSTEM	2	3	Benton	01	WELL #1	26	08	30E
06289	MC BUEL WATER SYSTEM	2	7	Benton	01	WELL #1	26	08	30E
04300	MAXWELL/MOWREADER WATER SYSTEM	2	6	Benton	01	WELL #1	08	08	30E
02000	GIER WATER SYSTEM	3	6	Benton	01	GIER WELL	10	08	30E
00083	AGRI NORTHWEST GRAIN ELEVATOR	3	2	Benton	01	WELL 1	12	05	27E
00139	TRI-CITY FABRICATING	1	0	Benton	01	WELL 1	08	08	30E
00186	GORDON WATER SYSTEM	2	5	Benton	01	WELL #1	07	08	30E
00722	ROBBINS, ED WATER SYSTEM	3	8	Benton	01	WELL #1	12	07	30E
01353	SUNDOWN ESTATES	5	8	Benton	01	WELL 1	14	08	30E
03217	SANDERS, LLOYD WATER SYSTEM	4	10	Benton	01	SANDERS WELL 1	09	08	30E
06547	HOUCHIN WELL 1	2	3	Benton	01	WELL 1	15	08	30E
02047	COOPER, GERALD WATER SYSTEM	3	8	Benton	01	COOPER, G.W. WATER SYST.	35	08	30E
02148	STACY WATER SYSTEM	2	3	Benton	01	WELL #1	25	08	30E
02485	VOGEL COMMUNITY WELL	4	10	Benton	01	WELL #1	06	07	31E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
02559	MICHAELIS WATER SYSTEM	3	7	Benton	01	MICHAELIS WELL	07	08	30E
02682	KNIGHT WATER SYSTEM	3	7	Benton	01	WELL #1	08	08	30E
02703	FINLEY STORAGE	1	0	Benton	01	ROUNDY WELL #1	26	08	30E
03039	BERGES, JAMES A. WATER SYSTEM	2	4	Benton	01	OLSON WELL 1	23	08	30E
06469	CARPENTER WELL	2	8	Benton	01	WELL 1	07	08	30E
19946	JESERNIG, RUDY - SP 1116	4	10	Benton	01	WELL #1	05	08	30E
20281	BARR WATER SYSTEM	2	5	Benton	01	WELL #1	14	08	30E
20294	RICHARDSONS	2	5	Benton	01	WELL	06	07	31E
22573	YADAO, JUANITA	1	3	Benton	01	WELL	09	08	30E
24101	CHAVEZ WATER SYSTEM	3	8	Benton	01	WELL 1	35	08	30E
24221	ANDERSON, WILLIAM & DEBRA	2	5	Benton	01	WELL 1	09	08	30E
24651	CENTRAL PRE-MIX CONCRETE CO	3	0	Franklin	01	WELL	12	09	28E
25621	BIG TOE SALVAGE	1	0	Benton	01	WELL 1	15	08	30E
25634	CULBERHOUSE, ROY	2	5	Benton	01	WELL #1	04	08	30E
25938	ROOSEVELT SCHOOL DISTRICT 403	1	0	Klickitat	01	WELL 1	17	03	21E
08155	BRANDON MOBILE HOME COURT	14	24	Benton	01	BRANDON WELL #1	16	08	30E
06635	H AND M WIRTA	2	4	Benton	01	WELL 1	07	08	30E
06708	BASS, TAMARA WATER SYSTEM	2	4	Benton	01	WELL 1	35	08	30E
07038	STACY, LARRY J.	2	6	Benton	01	STACY WELL	25	08	30E
07166	GARNER, DON	3	7	Benton	01	GARNER WELL 1	09	08	30E
07611	SHORT AVENUE WATER SYSTEM	5	13	Benton	01	WELL 1	15	08	30E
07692	ALCARAZ, FERMIN	2	7	Benton	01	WELL 1	18	09	29E
07857	PASTURE POINT TRIBAL FISHING ACCESS	13	0	Klickitat	01	AAR830 WELL 1	36	03	18E
26235	FOURTH PLACE WATER SYSTEM	5	13	Benton	01	WELL 1	05	08	30E
08182	GOECIA WATER SYSTEM	2	6	Benton	01	AGB007 WELL 1	35	08	30E
08183	BURBANK WEST WAY	1	0	Walla Walla	01	AEL427 WELL 1	02	08	30E
08275	HAYS TRAILER PARK	3	8	Benton	01	WELL 1	22	08	30E
12827	ASSN OF WESTERN PULPPAPER WORKERS	1	0	Benton	01	WELL	07	08	30E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
14130	ADVANCED CONCRETE SPECIALIST, INC	1	0	Benton	01	WELL # 1	22	08	30E
07701	WHITCOMB	2	5	Benton	01	WELL 1	35	05	24E
38260	TESSENDERLO KERLEY INC	2	0	Benton	02	WELL # 2	25	08	30E
30816	BARBEE ORCHARDS RIVER RANCH	13	5	Benton	02	DOMESTIC WELL	05	05	26E
67225	AGRIUM - FINLEY AREA	2	0	Benton	02	EAST POTABLE WELL	23	08	30E
38260	TESSENDERLO KERLEY INC	2	0	Benton	03	WELL # 3	25	08	30E
02718	COLUMBIA PARK - SOCCER	1	0	Benton	08	WELL #8	35	09	29E
53450	FLAT TOP RANCH	10	18	Walla Walla	01	WELL 1	19	10	33E
03597	BOGART WATER SYSTEM	2	1	Walla Walla	01	WELL 1	31	09	31E
03647	SCHINNER, TONY WATER SYSTEM	2	8	Benton	01	SCHINNER WELL 1	08	08	30E
00251	Columbia Basin Rebar	2	0	Walla Walla	01	WELL #1	02	08	30E
92625	WALLULA UNION PACIFIC RAILROAD	1	0	Walla Walla	01	WELL #1	10	07	31E
HD920	WALLULA ROADSIDE PARK	1	0	Walla Walla	01	WELL 1	26	07	31E
96098	WHITE, BILL WATER SYSTEM	5	13	Walla Walla	01	WELL	31	09	31E
92505	WALLA WALLA YACHT CLUB	2	2	Walla Walla	01	WELL 1	04	06	31E
92492	NW GRAIN GROWERS PT KELLY	2	5	Walla Walla	01	WELL 1	09	07	31E
88990	TRADE WINDS CAFE	2	3	Walla Walla	01	WELL #1	26	07	31E
00455	GALLANT ROAD WATER SYSTEM	4	13	Walla Walla	01	WELL 1	06	08	31E
95061	NW GRAIN GROWERS - WALLULA	1	0	Walla Walla	01	WELL 1	27	07	31E
62337	COLUMBIA RURAL ELECTRIC ASSN INC	1	0	Walla Walla	01	WELL 1	06	08	31E
63163	AGUAYO, FRANK WATER SYSTEM	2	2	Benton	01	WELL 1	18	08	31E



PWS ID	ORNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
65450	Trans Canadas GTN System #8	5	0	Walla Walla	01	WELL	29	29	32E
11151	CLD PACIFIC GRAIN LLC	1	0	Walla Walla	01	WELL #1	02	08	30E
06537	HORIZON AG PRODUCTS	2	0	Walla Walla	01	WELL	33	08	31E
06061	TESSENDERLO KERLEY	1	0	Walla Walla	01	WELL #1	03	07	31E
09790	AMERICOLD LOGISTICS	1	0	Walla Walla	01	WELL 1	27	08	31E
BP370	LOWER MONUMENTAL SUBSTATION	2	0	Walla Walla	01	WELL #1	03	12	34E
38606	HILL, DANIEL	2	3	Benton	01	WELL 1	16	08	30E
25245	FIRST BAPTIST CHURCH OF BURBANK	2	3	Walla Walla	01	WELL 1	12	08	30E
00115	M McNARY NATIONAL WILDLIFE REFUGE	5	2	Walla Walla	01	WELL 1	01	08	30E
65450	Trans Canadas GTN System #8	5	0	Walla Walla	02	WELL	29	29	32E
11151	CLD PACIFIC GRAIN LLC	1	0	Walla Walla	02	WELL #2	02	08	30E
88990	TRADE WINDS CAFE	2	3	Walla Walla	02	WELL #2	26	07	31E
88990	TRADE WINDS CAFE	2	3	Walla Walla	03	WELL #3	26	07	31E
13377	SHADE, FRANK	2	5	Walla Walla	01	WELL 1	07	08	31E
00742	ROGERS FARMS INC WATER SYSTEM	2	7	Franklin	01	WELL #1	14	09	31E
27286	KRUSSEL-LAMPSON	2	5	Walla Walla	01	WELL 1	12	08	30E
05218	COUNTRY VILLAGE	4	13	Walla Walla	01	WELL #1	31	09	31E
41190	SHELTON WATER SYSTEM	4	19	Walla Walla	01	WELL 1	30	10	33E
41353	CARR, JACK WATER SYSTEM	6	14	Franklin	01	WELL #1	07	09	32E
41418	Johnson Water_System	5	5	Franklin	01	WELL #1	27	09	30E

PWS ID	ORNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
14181	REED WATER SYSTEM	4	10	Walla Walla	01	WELL	30	09	31E
06978	PORTER WATER SYSTEM	2	5	Franklin	01	WELL 1	14	09	31E
03567	COGRAIN INC	2	6	Franklin	01	WELL 1	34	13	34E
07085	GORDON BROTHERS	3	4	Franklin	01	WELL 1	08	09	32E
51027	ALDERSON, JACK	2	5	Franklin	01	WELL 1	26	09	30E
32979	BROETJE, RALPH WATER SYSTEM	4	9	Walla Walla	01	WELL_#1	19	10	33E
51177	ALLEN, CLINT	2	4	Walla Walla	01	WELL 1	06	08	31E
BP260	FRANKLIN SUBSTATION	1	0	Franklin	01	WELL 1	27	09	30E
02957	BUXBAUM WATER SYSTEM	3	7	Franklin	01	WELL 1	27	09	30E
38779	ESCALERA WATER SYSTEM	2	5	Franklin	01	WELL 1	20	09	29E
02350	KRANZ-BAKLEY SYSTEM	2	4	Franklin	01	WELL 1	23	09	29E
04313	NORTHWEST TRUSS	1	0	Franklin	01	WELL 1	18	09	29E
07917	VALLEY VIEW 6 AND 7 WATER SYSTEM	2	4	Franklin	01	WELL 1	16	09	29E
03520	ANGLES, ALEJANDRO G.	4	15	Franklin	01		28	09	30E
06760	HANSON, STEVEN WATER SYSTEM	4	16	Franklin	01	WELL 1	21	09	29E
14781	DREYFUS, LOUIS CORP	2	0	Franklin	01	WELL #1	09	12	34E
06357	COLUMBIA VALLEY GRANGE	1	0	Franklin	01	WELL #1	27	09	29E
14797	MEHLENBACHER WATER SYSTEM	4	10	Franklin	01	WELL #1	19	09	31E
07638	BONNEVILLE POWER ADMIN- FRANKLIN	1	3	Franklin	01		27	09	30E
02965	LABORERS TRAINING SITE WATER SYSTEM	2	4	Franklin	01	WELL #1	27	09	30E
66710	PECK APARTMENTS	4	10	Franklin	01	WELL 1	24	09	29E
24305	RADA SONS	5	8	Franklin	01	WELL 1	28	09	30E
18136	HI - POINT ORCHARD	2	5	Franklin	01	WELL #1	19	12	29E
06614	CERVANTES, MARTIN WATER SYSTEM	2	5	Franklin	01	WELL 1	19	10	29E
62591	ROAD 72 BERRY FARM	2	3	Franklin	01	WELL 1	21	09	29E
23339	HICKMAN, A.L.	1	3	Franklin	01	WELL 1	30	11	29E
08027	COUNTRY HEARTS	1	2	Franklin	01	WELL 1	21	09	29E
34452	FULTON WATER SYSTEM	1	3	Franklin	01	WELL	17	09	29E
02225	ALFORD FIELD WELL	2	6	Franklin	01	WELL 1	24	10	28E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
03880	FIELD, LOUIS W. WATER SYSTEM	3	3	Franklin	01	WELL #1	13	10	28E
05124	COMFORT CARE	1	9	Franklin	01	WELL #1	23	09	29E
03811	SANDERSON ESTATES I	4	10	Franklin	01	WELL 1	01	09	28E
83545	STANDARD OIL OF CALIFORNIA	1	3	Franklin	01		35	09	30E
09814	THOMAS, FRANCES	2	3	Franklin	01	WELL	16	09	29E
90999	VALLEY VIEW ROAD	3	10	Franklin	01	WELL 1	16	09	29E
30464	DAYTON SHORT PLAT	2	5	Grant	01	WELL #1	03	14	23E
03890	COOK WATER SUPPLY	2	6	Benton	01	WELL 1	16	08	30E
07304	TIDEWATER TERMINAL CO	4	0	Franklin	01	WELL 1	35	09	30E
39081	FONTANA D MARCHE SYSTEM	2	8	Franklin	01	FONTANA D'MARCHE	19	09	29E
07607	GONZALEZ, HECTOR	2	8	Franklin	01	WELL 1	20	09	29E
27140	DEPARTMENT OF GAME	1	3	Franklin	01		24	12	28E
27876	COLUMBIA VISTA ORCHARDS	4	11	Franklin	01	C.V.O. WELL #1	13	11	28E
77669	RIVERVIEW CHURCH WATER SYSTEM	2	0	Franklin	01	RIVERVIEW WELL	25	09	29E
03811	SANDERSON ESTATES I	4	10	Franklin	02	WELL 2	01	09	28E
07533	SANDERSON ESTATES II	6	7	Franklin	03	WELL 3/AAO-932	01	09	28E
07533	SANDERSON ESTATES II	6	7	Franklin	04	WELL 4/AAO-931	01	09	28E
03811	SANDERSON ESTATES I	4	10	Franklin	05	WF/S01,S02	01	09	28E
07533	SANDERSON ESTATES II	6	7	Franklin	06	WF/S03,S04	01	09	28E
09601	TULLIS WATER SYSTEM	6	15	Benton	01	WELL 1	12	07	30E
09426	ROSS WATER SYSTEM	2	3	Benton	01	WELL 1	09	08	30E
34439	WISSE WATER SYSTEM	2	5	Franklin	01	WELL	16	09	29E
08113	BALL WELL WATER SYSTEM	2	6	Benton	01	AFH838 WELL 1	02	09	28E
BP390	MIDWAY SUBSTATION	1	0	Benton	01	WELL #1	14	13	24E
BP270	GRANDVIEW SUBSTATION	1	0	Yakima	01	WELL 1	36	10	28E
11063	WILLIAMS, EVA WATER SYSTEM	2	5	Benton	01	WELL #1	09	08	30E
09840	WATTS WATER SYSTEM	5	19	Benton	01	WELL # 1	10	08	30E
10939	BRETZ WATER SYSTEM	2	6	Benton	01	WELL #1	07	07	31E
11999	WILLIAMS, BOB WATER SYSTEM	2	5	Benton	01	WELL # 1	07	08	30E
51676	DEANS WELL 2	2	5	Benton	01	WELL 2	01	07	30E
03775	PARKHILL WATER SYSTEM	2	7	Franklin	01	WELL #1	14	09	31E
03678	FISHBACK-HSIEH WATER SYSTEM	3	10	Benton	01	HSIEH WELL 1	23	09	28E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
56186	COLUMBIA CREST WINERY, MAIN SHOP	5	6	Benton	01	MAIN SHOP WELL	12	05	25E
02184	BROUNS WATER SYSTEM	2	7	Benton	01	WELL 1	23	09	28E
BP390	MIDWAY SUBSTATION	1	0	Benton	02	WELL #2	14	13	24E
00311	RANCH WATER SYSTEM	3	8	Franklin	01	WELL #1	12	10	28E
73380	ROCK ISLAND DAM POWER HOUSE 2	1	0	Chelan	01	WELL 1	05	21	22E
03364	DEPENDABLE SPRINGS	8	20	Chelan	01	SPRING	29	22	21E
01064	LUEBBER WATERWORKS	4	12	Chelan	01	WELL 1	33	22	21E
34384	EPPICH WATER SYSTEM	5	10	Franklin	01	EPPICH WATER SYSTEM	13	12	28E
BP590	VANTAGE SUBSTATION	1	0	Grant	01	WELL 1	18	17	23E
07262	MORRIS WEST 20 40 LLC	1	0	Chelan	01	WELL 1	20	21	22E
04420	SMITH EDDIE WATER SYSTEM	4	10	Grant	01	WELL 1	12	18	22E
04124	PIONEER WAY #2	6	14	Chelan	01	WELL #1	29	22	21E
00760	PIONEER WAY #1	5	12	Chelan	01	WELL #1	29	22	21E
04906	ALLGOOD WATER ASSOCIATION	4	7	Chelan	01	WELL 1	29	22	21E
29081	WANAPUM SWITCHYARD	1	0	Grant	01		16	16	23E
02459	MANSFIELD WATER USERS ASSN	6	12	Douglas	01	WELL #1	14	20	22E
29079	PRIEST RAPIDS FISHERIES BUILDING	1	0	Grant	01	WELL 1	36	14	23E
02778	O NEEL/AVILA WATER SYSTEM	2	12	Grant	01	O'NEEL WELL #1	04	14	23E
01574	TRINIDAD TOWNSITE WATER SYSTEM	2	5	Douglas	01	WELL 1	13	20	22E
29078	WANAPUM MAINTENENCE CENTER	2	0	Grant	01	WELL # 1	16	16	23E
39690	RIISING SUN ORCHARD	2	5	Grant	01	WELL #1	12	20	22E
56226	COLUMBIA RV	14	1	Grant	01	WELL - PRIMARY	03	15	23E
03216	SMITH BROTHERS WELL	3	8	Grant	01	WELL #1	18	20	23E
34077	COLUMBIA CLIFFS ASSN	8	9	Douglas	01	WELL 1	14	20	22E
56226	COLUMBIA RV	14	1	Grant	02	WELL - SECONDARY	03	15	23E
41164	BROUGHER RANCH INC	3	0	Lincoln	01	SPRING	20	28	34E
00196	PORTER WELL WATER SYSTEM	12	12	Lincoln	01	WELL #1	33	28	37E
07791	RAM ORCHARDS WELL	7	18	Douglas	01	AFE456/WELL 1	21	21	22E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp Code	Src_Range Code
08087	BAIGGS WATER SYSTEM	2	5	Douglas	01	BRIGG'S WELL	25	22	21E
08203	LAKEVIEW SHORES DIV 2	2	6	Douglas	01	ACX478 LAKEVIEW SHORE	18	24	21E
08053	ORONDO ORCHARD NORTH B	6	20	Douglas	01	WELL 1	21	25	21E
02882	VAN WINKLE ORCHARDS INC	4	10	Douglas	01	VAN WINKLE WELL 1	28	26	21E
02096	REIBER/SKELTON WATER SYSTEM	3	6	Douglas	01	WELL 1	16	25	21E
17807	DANIELS WATER SYSTEM	7	15	Douglas	01	WELL # 1	28	25	21E
64375	ORONDO ORCHARDS SOUTH A	8	20	Douglas	01	WELL 1	21	25	21E
08199	PARADISE SHORES	6	15	Chelan	01	AGB403 WELL 1	02	26	22E
03672	T. R. MILLER ORCHARDS	5	9	Douglas	01	WELL #1	21	26	21E
02100	TALBOT WATER WORKS	2	10	Douglas	01	WELL #1	20	22	21E
32274	SCHWANTEE ORCHARD	3	6	Douglas	01	WELL 1	12	26	21E
05910	LAUREL ESTATES WATER SYSTEM	2	4	Chelan	01	WELL 1	19	22	22E
06687	DOUGLAS COUNTY FIRE DISTRICT 4	1	0	Douglas	01	WELL 1	32	25	21E
02095	SANFORD SHORES WATER SYSTEM	10	24	Douglas	01	WELL #1	08	24	21E
03988	HURST LANDING	8	22	Douglas	01	WELL 1	27	22	21E
06974	COLUMBIA POINTE WATER SYSTEM	10	20	Douglas	01	WELL 1 / AEG357	06	26	23E
46998	LERAY #1	8	8	Douglas	01	LERAY WELL 1	21	22	21E
BP170	COLUMBIA SUBSTATION	1	0	Douglas	01	WELL #1	21	21	22E
00167	DAISY HILL WATER SYSTEM	11	24	Douglas	01	WELL 1	02	23	20E
05360	RANCHO MANZANAS	7	10	Douglas	01	WELL 1	12	26	21E
07328	ZAHN, BRUCE ORCHARD	14	3	Okanoga n	01	WELL 1	03	29	25E
02576	JOHN S FRESH WATER	4	8	Douglas	01	ALBERT WELL	30	24	21E
03997	SIERRA BEACH ASSOCIATION	4	10	Douglas	01	WELL 1	15	26	21E
64370	ORONDO IRRIGATION ASSOCIATION INC	8	20	Douglas	01		32	25	21E
51921	NELSON S, BILLY WATER SYSTEM	3	6	Douglas	01	WELL	16	21	22E
07893	EZ ACCESS MINI STORAGE	2	0	Douglas	01	ACV805 WELL 1	26	22	21E
02596	SUNRISE COVE	3	10	Douglas	01	WELL #1	26	22	21E
18918	PORFIRIO COVARRUBIAS	2	3	Douglas	01	WELL 1	21	25	21E
64375	ORONDO ORCHARDS SOUTH A	8	20	Douglas	02	WELL 2	21	25	21E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
64375	ORONDO ORCHARDS SOUTH A	8	20	Douglas	03	WF/S01,S02	21	25	21E
05154	MCRAE, LEO	3	10	Douglas	01	WELL #1	11	22	20E
10355	C&O ORCHARDS	5	15	Douglas	01	WELL 1	01	22	20E
07042	STEMILT CREEK RD SOUTH	4	8	Chelan	01	WELL #1/ACR470	25	22	20E
22896	MORSE, FRANK	2	5	Chelan	01	WELL 1	13	24	20E
41114	HUGHES/MAIN WATER SYSTEM	2	5	Chelan	01	WELL 1	22	22	20E
26694	GREENE, JAMES A. WATER SYSTEM	4	5	Chelan	01	WELL A	27	22	21E
06762	DESERT SHORES WATER WORKS	9	24	Douglas	01	WELL 1	21	26	21E
03013	TURTLE ROCK EAST	4	10	Douglas	01	WELL 1	25	24	20E
31465	HARRIS ORCHARD CO	4	8	Chelan	01	NORTH WELL	16	26	21E
67605	ROBISON TRACT	3	5	Chelan	01	WELL 1	10	26	21E
06735	RAINS SHORT PLAT 2	4	8	Chelan	01	WELL 1 / ACX570	25	24	20E
06734	RAINS SHORT PLAT 1	3	6	Chelan	01	WELL 1 / ACX569	25	24	20E
02130	CURRIT-MCCUBBIN WATER SYSTEM	9	24	Chelan	01	WELL 1	06	24	21E
31465	HARRIS ORCHARD CO	4	8	Chelan	02	SOUTH WELL	16	26	21E
17345	COLLINS WATER SYSTEM	9	3	Chelan	01	WELL LOT 1	04	27	23E
08257	LAKE CHELAN AIRPORT	10	9	Chelan	01	WELL 1	04	27	23E
07288	SIKES ORCHARDS INC	2	2	Chelan	01	WELL 1	03	27	23E
00267	WOLLEY WATER SYSTEM	11	23	Okanoga n	01	WELL #1	07	29	24E
00908	NICKELL ORCHARDS HOME WELL	4	12	Okanoga n	01	WELL #1	30	30	24E
05314	BEHRENS METHOW RIVER WATER ASSN	3	5	Okanoga n	01	WELL 1	35	30	23E
02983	UNGER/WYATT WATER SYSTEM	2	4	Okanoga n	01	WELL 1	12	30	24E
03383	OLIVER/EDWARDS SHORT PLAT	5	10	Okanoga n	01	WELL #1	12	30	24E
07397	APPLE MANAGEMENT COMPANY	8	7	Okanoga n	01	WELL 1	10	29	25E
09044	GOBLE WATER SYSTEM	6	15	Okanoga n	01	WELL 1	22	30	24E
45330	LAKEVIEW ORCHARDS	10	18	Douglas	01	WELL	21	30	24E



PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
08168	BRAKER THOMAS ORCHARD	9	3	Douglas	01	AFH704 BRAKER WELL 2	23	30	24E
17080	CUSTOM ORCHARD 2	9	15	Douglas	01	SPRING	33	30	25E
16253	RECTORVILLE WATER SYSTEM	6	15	Okanoga n	01	WELL 1	07	29	24E
11639	RIVERVIEW WATER ASSOCIATION	8	7	Okanoga n	01	WELL 1	15	30	24E
00838	PASLAY-GOBLE WATER SYSTEM	3	8	Okanoga n	01	WELL #1	15	30	24E
31342	WESTERDAHL WATER SYSTEM	7	13	Douglas	01	WELL 1	29	30	25E
05951	MOUNTAIN VALLEY MHP	6	15	Douglas	01	WELL #1	20	30	25E
07768	WESTERDAHL ORCHARDS - TENT CAMP	4	5	Douglas	01	WELL 1	04	29	25E
00482	Faith Frontier Ministries	4	14	Okanoga n	01	WELL #1	14	30	28E
88390	TIMM BROS WATER SYSTEM	6	15	Douglas	01	WELL # 1	29	30	25E
06419	LAKEVIEW WATER SYSTEM	2	7	Douglas	01	WELL #1	20	30	25E
06127	CHELAN HATCHERY DOMESTIC WATER	3	6	Chelan	01	WELL 1	20	27	23E
02099	SZTAB WATER SYSTEM	6	15	Douglas	01	WELL 1	14	27	23E
05791	NELSON ESTATES	4	10	Douglas	01	WELL #1	14	27	23E
72434	WASHBURN / RIGGS WATER SYSTEM	8	13	Douglas	01	WELL 1	29	30	25E
72227	RICH ACRES WATER CORP	12	24	Douglas	01	WELL 1	28	30	25E
01750	ROCKY BUTTE CHURCH OF THE NAZARENE	2	2	Douglas	01	WELL # 1	34	30	25E
72227	RICH ACRES WATER CORP	12	24	Douglas	02	WELL 2	28	30	25E
00482	Faith Frontier Ministries	4	14	Okanoga n	02	WELL #2	14	30	28E
72227	RICH ACRES WATER CORP	12	24	Douglas	03	WELL 3	28	30	25E
72227	RICH ACRES WATER CORP	12	24	Douglas	04	WELL 1,2,3	28	30	25E
08172	SDA - THALLHEIMER WATER ASSN	4	16	Okanoga n	01	WELL 1	31	30	31E
75825	SAN POIL BAY IMPROVEMENT ASSN INC	8	0	Ferry	01	SANPOIL RIVER	16	29	33E
04298	COLUMBIA SPRINGS ESTATES	8	15	Lincoln	01	CS-1	18	28	31E
07944	FDR ESTATES #5	1	2	Lincoln	01	AFB116 FDR 5	08	28	31E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Townshp _Code	Src_Range _Code
06538	BROUGHER RANCH II	3	4	Lincoln	01	AAK364/WELL 1	20	28	34E
06998	TRANQUIL ESTATES	4	1	Lincoln	01	WELL 1 / AEB860	11	28	31E
07943	FDR ESTATES #4	0	0	Lincoln	01	AFB115 FDR 4	08	28	31E
07007	LIVINGSTON, GEORGE WATER SYSTEM	2	2	Lincoln	01	WELL 1	31	28	36E
06719	PORCUPINE BAY ESTATES	2	3	Lincoln	01	WELL 1	32	28	37E
05694	LAKE ROOSEVELT HIDEAWAY	2	4	Lincoln	01	WELL #1	07	28	31E
07961	FDR ESTATES #6	1	2	Lincoln	01	FDR 6 WELL 1	08	28	31E
56364	ROCKY TOP ESTATES	4	7	Lincoln	01	WELL 1	18	27	36E
07939	FDR ESTATES #2	0	0	Lincoln	01	AFB113 FDR 2	08	28	31E
08271	BROUGHER RANCH III	1	2	Lincoln	01	AGK453/WELL 1	20	28	34E
08340	CAMPBELL BAY FARMS	7	10	Lincoln	01	ABQ390 WELL 1	30	28	33E
05403	LAKEVIEW HEIGHTS WATER SYSTEM	10	15	Lincoln	01	WELL 1	06	27	36E
07942	FDR ESTATES #3	0	0	Lincoln	01	AFB114 FDR 3	08	28	31E
07938	FDR ESTATES #1	0	0	Lincoln	01	AFB112 FDR 1	08	28	31E
51131	TARBERT WATER SYSTEM	4	10	Lincoln	01	WELL #1	33	28	37E
04298	COLUMBIA SPRINGS ESTATES	8	15	Lincoln	02	CS-2	18	28	31E
06719	PORCUPINE BAY ESTATES	2	3	Lincoln	01	WELL 1	32	28	37E
38625	SQUAW CANYON PLAT III	13	7	Lincoln	01	WELL #1	31	27	38E
NP190	DETILLION CAMPGROUND	1	0	Lincoln	01	DETILLION WELL	12	28	36E
26090	FORT SPOKANE STORE	2	2	Lincoln	01	SPRING #1	29	28	35E
04991	KUNZ WATER SYSTEM	2	6	Lincoln	01	WELL #1	33	27	38E
34737	BISBEE ACRES WATER ASSOCIATION	5	10	Ferry	01	SPRING	15	36	37E
04112	RICKEY CANYON SUBDIVISION	3	8	Stevens	01	WELL 1	11	35	37E
02769	VERY DEEP WELL WATER SYSTEM	3	6	Stevens	01	WILDEN WELL 1	34	33	37E
99330	YE OLD COUNTRY STORE	2	7	Stevens	01	SPRING 1	21	31	37E
17710	DAISY WATER SYSTEM	6	9	Stevens	01		10	33	37E
02525	Azzarito / Fish	2	4	Stevens	01	WELL 1	12	35	37E
01664	MALONE WATER SYSTEM	2	5	Stevens	01	WELL #1	12	30	36E
07804	RICE CHURCH	2	2	Stevens	01	AFF342 WELL 1	16	34	37E
03024	DRAKE S WATER COMPANY	2	4	Stevens	01	DRAKE WELL #1	25	37	37E
34737	BISBEE ACRES WATER ASSOCIATION	5	10	Ferry	02	SPRING	15	36	37E
04112	RICKEY CANYON SUBDIVISION	3	8	Stevens	02	WELL 2	11	35	37E

PWS ID	ORGNAME	CONNECTION COUNT	POPULATION	COUNTY	Src_ Num	Src_Name	Src_Sect_ Num	Src_Township _Code	Src_Range _Code
34737	BISBEE ACRES WATER ASSOCIATION	5	10	Ferry	03	SPRING	15	36	37E
02839	SCRAPER, JOHN WATER SYSTEM	2	4	Stevens	01	WELL 1	19	36	38E
34825	ROBINSON WATER SYSTEM	3	8	Stevens	01	WELL #1	10	35	37E
02190	TOWNSHIP CREEK WATER SYSTEM	2	4	Ferry	01	MEYERS SPRING	32	38	37E
08014	BOYDS TAVERN	2	5	Ferry	01		05	37	37E
02539	JAMES WATER SYSTEM	2	5	Stevens	01	WELL #1	33	38	37E
34014	ANDERSON K. R. LOTS	2	7	Ferry	01	WELL 1	16	38	37E
02471	HARSIN/DRISKILL WATER SYSTEM	2	5	Stevens	01	WELL #1	09	37	37E
34017	FREDRICKSON SHORT PLAT	5	13	Ferry	01	WELL #1	20	38	37E
38951	COLUMBIA RIVER WATER ASSOCIATION	3	10	Ferry	01	WELL #1	15	36	37E
03135	WEST, ROBERT L. WATER SYSTEM	2	4	Stevens	01	WEST WELL 1	25	37	37E

## CHAPTER 5: WATER SUPPLY AND DEMAND FORECAST

### 5.1 Introduction

This Chapter describes the water supply and demand forecast prepared for this first legislative report under the Columbia River Water Management Program. The forecast uses the data compiled and described in Chapters 3 and 4. The approach used for the forecast is not analytically sophisticated and, ultimately, additional work at both the inventory level and the forecasting level is needed. However, there are some meaningful observations that can be made with respect to forecasting demand on the Columbia River, and there are decisions to be made by Ecology and other stakeholders in the basin regarding how to further develop forecasting capabilities in the future and then act on them.

By describing and comparing these quantities, an initial understanding of Ecology's ability to issue new water rights for the Columbia River can be developed.

The initial water supply and demand forecast was carried out in two formats or "tiers":

1. The first tier demand forecast (described in Section 5.2) is based solely on water right applications on file in Ecology's WRTS database. It includes a summary of water right applications and the water use associated with those applications. The quantity of water in applications is then compared with the potential quantity of water conservation and the potential quantity of water in new storage projects described in Chapter 4.
2. The second tier demand forecast (described in Section 5.3) is based on projections of estimated actual water use. This projection focuses more on "wet" water. It includes the following:
  - Two projections of domestic water use: one based on OFM population estimates coupled with estimated per capita water use calculated using DOH data; and a second based on a projection of USGS year 2000 water use inventory of domestic use.
  - Two projections of agricultural water use: one based on the agricultural crop projections provide by Washington State University (WSU) for this report; and a second based on a projection of USGS year 2000 water use inventory of agricultural water use.

Both the first tier and second tier forecasts have limitations in their approach that will require future refinement to improve and quantify their accuracy. These limitations could not be eliminated in the short time available to produce the report. However, for the purposes of this first legislative report, the two tiers are illustrative of potential future water demand and issues related to water supply on the Columbia River.

Because of the recognized uncertainty in this forecast, the latter portions of this Chapter describe approaches to more sophisticated supply and demand forecasting, and describe the types of decisions and collaboration that will be necessary for Ecology to develop a more robust forecasting system in the future. We recognize that understanding and describing limits of the

forecast model is an extremely important element in any exercise of this kind.

## 5.2 First Tier Water Demand Forecast

The first tier water demand forecast is based on water right applications only. Although the degree to which pending water right applications represent a real water demand is subject to some uncertainty, Ecology is obligated to evaluate these applications and make a determination. Therefore no consideration is made in the forecast as to the validity of the applications.

The water right applications on file in Ecology's WRTS database are not complete in the reporting of instantaneous water requested ( $Q_i$ ), annual volume of water requested ( $Q_a$ ), or acres to be irrigated (for irrigation applications). The most common field that is not reported is the annual volume of water ( $Q_a$ ), and about 60% of the records do not report a  $Q_a$  request. Most of the applications report a  $Q_i$ , and most of the agricultural applications designate an irrigated acreage. A total of 454 applications for surface water and ground water are on file. Figure 5-1 shows the distribution of water right applications on a map. The water right application data were provided by Ecology based on a query of the WRTS database in July 2006 (Ecology, pers. comm., 2006a). Appendix D explains the method and assumptions behind the analysis of the water right applications.

There are an additional 378 water right transfer applications on file.

### 5.2.1 Irrigation

Table 5-1 shows that there are a total of 195 new water right applications with an irrigation purpose of use, totaling 57,534 acres. There is not consistent reporting of both  $Q_i$  and  $Q_a$ . However, nearly all of these applications have reported acres irrigated. Therefore, a calculation of irrigation water use associated with these applications was made using an annual water duty (i.e. an annual volume of water per acre). For ground water applications that reported both acreage and  $Q_a$ , the average annual duty applied for is 3.41 AF per acre. For surface water, the average annual duty applied for is 3.82 AF per acre. Using these water duties, the total annual demand for agriculture based on water right applications is estimated at 211,323 AF.

The requested acreage (57,534 acres) is a very small proportion of the estimated total irrigated acreage in the Columbia Basin, and the water duty requested is consistent with typical irrigation requirements in Washington.

### 5.2.2 Domestic

Table 5-2 shows that there are a total of 214 domestic water right applications in the Management Zone, totaling 242 cfs. On an annualized basis, 242 cfs is equivalent to an annual water use of about 86,849 AF. This volume is calculated assuming continuous use of  $Q_i$ , which is then reduced by a factor of 2 (e.g. 50%). This assumption means that 242 cfs is equivalent to a peak-day requirement for domestic water supply and that a peaking factor of 2 is appropriate to convert peak day to annual use. Based on Washington Department of

Health guidance (DOH, 2002; DOH, 2005), this peaking factor is reasonable. The accuracy of the 242 cfs  $Q_i$  reported in the applications is not known.

Assuming a per capita water usage of 170 gallons per day per person (see Chapter 4), 86,849 AF of annual water use is equivalent to a population of just over 450,000 people.

### **5.2.3 Commercial/Industrial**

Table 5-3 shows that there are 36 water right applications with a commercial/industrial purpose of use, totaling 230 cfs. Similar to domestic demand, the annual demand would be equivalent to 82,237 AF annually, using the same peaking factor assumption. Peaking factors for commercial and industrial use could be lower since the water is often used on a more continuous basis, so the total annual demand associated with 230 cfs of commercial/industrial  $Q_i$  may be underestimated.

### **5.2.4 Environment and Wildlife**

Table 5-4 shows that there are 6 water right applications with an environment and wildlife purpose of use, totaling 16 cfs. The annual demand is equivalent to 12,181 AF annually if used continuously. If these applications are intended for summer instream flow purposes, annual use would be lower.

### **5.2.5 Undefined**

Table 5-5 shows that there are 4 water right applications with an undefined purpose of use, totaling 2,211 AF annually.

### **5.2.6 Total Demand Based on Water Right Applications**

The estimated total demand for water based on water right applications is summarized on Figure 5-2 by County. The demand applies only to water right applications within the 1-mile Management Zone. In total, there is 394,801 acre-feet per year of water requested in water right applications, using the assumptions described above. About 56% of that demand is associated with agriculture, 23% for domestic and 21% for commercial and industrial purposed of use. Benton County has the largest volume of water in applications, followed by Grant, Douglas, and Okanogan Counties. Benton, Grant, and Franklin counties have the highest irrigation demand, while Benton, Okanogan, and Walla Walla counties have the highest domestic demand.

The estimated monthly demand for water based on water right application amounts is shown on Figure 5-3 and Table 5-6, based on the typical monthly demand profiles (i.e. shaping factor) described in Chapter 4 to convert an annual demand to a series of monthly demands. The maximum summer demand (June, July, and August) is between about 70,000 and 90,000 AF per month, which is equivalent to between 1,200 and 1,500 cfs.

### **5.2.7 Comparison to Conservation Potential**

#### **5.2.7.1 Agriculture**

Agricultural water demand associated with water right applications in the Management Zone are estimated at about 211,323 AF, and interruptible



agricultural water rights constitute at least an additional 163,000 AF (see Chapter 4). Peak monthly demand associated with new water right applications is in the range of 70,000 to 90,000 AF. Potential total conservation amounts are currently estimated at 970,065 AF (see Chapter 4). While the annual volume of potential conservation relative to pending water right applications is encouraging, there are four important considerations:

1. Only a portion of the annual conservation amount will accrue directly to the Columbia River. As described in Chapter 4, the proportion of conserved water that would accrue to the Columbia River cannot be determined accurately with available data. Some of the projects identified may result in a high proportion of accrual while others may be very low or negligible because the savings are largely non-consumptive. In aggregate, the proportion of accrual could be in the range of 5 to 20% on an aggregate basis.
2. The total annual amount of conservation is distributed on a monthly basis, and it is this instantaneous amount of conserved water that would need to be “credited” during the peak irrigation season to offset new water rights. Using crop irrigation requirements as a guide (i.e. the shaping factor described in Chapter 4), less than 30% of the potential annual conservation would be returned during July. After factoring out potential non-consumptive savings described above, this leaves less potential conservation accrual during the peak irrigation season.
3. As described in Chapter 4, the time lag between a point of withdrawal or conservation and return flow to the Columbia River creates a complex time-varying relationship for determining the benefits of conservation to streamflows. This could further reduce the amount of consumptive water conservation savings that

would offset new demands during the peak irrigation season, but may increase the offset during the late summer and early fall.

4. Finally, it is possible that some of the conserved water would already be committed to other uses. This would be most relevant to conservation projects in tributary basins that are located farther away from the Columbia River.

Although the appropriate factors to determine what portion of conservation savings actually accrue to the Columbia are not well defined in aggregate, it is possible that conservation savings could become a basis for processing certain water rights. Further characterization of specific conservation projects (or groups of projects) in conjunction with specific water right requests will be necessary to determine whether conserved water will meet the requirements of ESSHB 2860 and can be used to offset or mitigate for new water right applications.

Ultimately, Ecology will strive to identify and evaluate conservation projects, or design enhancements to projects already identified, that will increase the accrual of water to the Columbia River as a way to address the existing demand for irrigation water rights.

#### **5.2.7.2 Residential**

Residential water right applications total 242 cfs or an estimated 86,849 AFY. This amount could support an additional population of 450,000 people, assuming 170 gpd per person. Providing water for new population can be considered in two ways:

1. A portion of the new population associated with these water right applications could possibly be served through municipal

conservation, reuse, or ASR, which could “maximize” the capacity of existing rights to meet new demands. This is essentially new population that may not require new water rights.

2. Some portion of the growth served through new water rights could also be permitted through “credits” from new conservation and wastewater treatment plant return flows. This is essentially new water right capacity that is “conditioned” on conservation commitments and recognition of actual consumptive use.

Similar to irrigation conservation, the appropriate factors and methodology for assigning appropriate conservation to potential new population and/or new water right needs is not well defined. An analysis of existing water rights (both perfected and inchoate) would be necessary to determine whether conservation and existing water rights could support the new demand expressed in water right applications. However, if the 1,000,000 people in the Columbia Basin reduced annual per capita demand by 10%, about 19,300 AF of water would become “available”, which could support new growth of about 110,000 people. Therefore, it does not appear that conserved water alone would support the projected growth forecast in the pending water right applications. Also similar to irrigation conservation, the instantaneous amount of conserved water that would need to be “credited” during the peak summer months to offset new water rights could be problematic because consumptive use during the summer is higher and not offset by return flows from wastewater treatment plants.

However, it is very possible that individual conservation projects and water right

applications could be matched such that conservation savings could become a basis for processing certain water rights. In particular, use of reclaimed water or aquifer storage during the summer months has the greatest potential to actually replace new summer demands (as opposed to simply reducing them), thereby allowing for population growth without new demands on the Columbia River.

### **5.2.8 Comparison to Storage Potential**

The four potential large federal off-channel storage projects on the mainstem Columbia (See Chapter 4) each exceed 1,000,000 AF in capacity. Black Rock Reservoir and Wymer/Yakima Pumpback are two additional potential large federal tributary storage projects in excess of 1,000,000 AF designed to alleviate flows and irrigation demand in the Yakima Basin. Any one of these large storage projects could potentially provide a significant portion of the water right requests within the Management Zone. However, the potential apportionment of various “pieces” of this new storage to existing interruptible rights, new water right applications, instream flows, or other beneficial uses will require further analysis and collaboration with the Bureau of Reclamation.

There is insufficient detail at this time to compare projected storage volumes from smaller water storage projects identified through watershed planning efforts or other local planning documents.

### 5.2.9 Comparison to Supply

Comparing the available flow volume estimates from BPA's Hyd-Sim model which account for BiOp flow objectives (Reclamation, 2006d) described in Chapter 3 and the first tier demand forecast of 394,801 AF indicates that future out-of-stream demands would use 2% to 42% of the available flow volume estimate. This comparison does not account for the variability in supply and demand throughout the year. In an average year, there is no flow available in August above the BiOp flow targets (Reclamation, 2006d). In a minimum year, there is only flow available above the BiOp targets in October (Reclamation, 2006d).

## 5.3 Second Tier Water Demand Forecast

The second tier water demand forecast is based on estimated actual water use, using water use data compiled in Chapter 4, projected to the year 2025. The second tier forecast looks at water demand based on historical water use in the Columbia System, rather than the allocable or pending water rights in the system. The factors used to project future water use are very generalized aggregate estimates, and have not been "built" from an analysis of the many potentially underlying variables that affect the demand for water. More sophisticated methods of incorporating multiple factors into an aggregate estimate exist, but could not be developed in the short time frame for this project. However, the generalized forecast described below is useful for this first legislative report in that it provides an initial order of magnitude estimate of water quantities. The second tier forecast focuses on the two principal

sectors of water use in the region: municipal supply (both domestic and commercial/industrial) and irrigated agriculture. USGS data on water use from the year 2000 and more recent inventory data compiled for this report are used in the analysis.

### 5.3.1 Agricultural Sector – WSU Survey

Future irrigation water demand is ultimately related to changes in the total crop acreage, crop type and distribution, and the irrigation profile for various crops. Ecology, through a Memorandum of Understanding, asked researchers at Washington State University (WSU) to perform two complementary analyses on crop production and water use in the Washington State portion of the Columbia River Basin (Wandschneider, et al., 2006). A survey was developed to solicit expert opinions about future crop production and water use for major crops. In addition, an econometric forecasting model was developed and applied to U.S. Department of Agriculture (USDA) National Agricultural Statistics Service data on production and acreage. The two analyses are meant to be interpreted together to obtain a forecast of crop production and water use. Details of the survey results are provided in Appendix D. The important observations from the analyses are summarized below.

#### 5.3.1.1 Agricultural Sector Survey Results

The survey participants comprised representatives of commodity organizations (potatoes, apples, wheat, cattle), government agencies (Farm Service administration, USDA, Natural Resource and Conservation Service

(NRCS)), one processing/distribution association, two irrigation districts, one conservation district, one irrigators association, and three private agricultural firms. The results of the survey indicate that participants believe:

- increases in water demand for wine grapes will occur;
- an increase in water demand for cattle producers (through increases in water demands for processing and irrigated pasture) will occur;
- water demand for potatoes will remain stable; however, a desire to open new lands is expressed to keep yields high; and
- water demand for apples and other tree fruit will remain stable.

Tree fruit growers expressed a concern with the effect of droughts on production. The water demand for wheat is not anticipated to change, although most wheat is dryland farmed anyway.

### **5.3.1.2 Econometric Forecasting Results**

The econometric forecast prepared by WSU uses statistical methods and historical data from the top twenty-five crops to determine crop production trends on a County-wide and regional basis. The top twenty-five crops account for over 95% of farm-gate revenue in the Columbia River Basin. Historical data were taken from 1981-2004 for most crops. Of the twenty-five crops used, silage corn, bluegrass seed, onions, peppermint, potatoes, sweet corn, cherries, and grapes show a visible positive trend in historic production and acreage planted. Pears and hay show a weak positive time trend. Asparagus, barley, and carrots show a visible negative trend, and apricots show a weak negative time trend. The other twelve crops

(alfalfa, grain corn, dry beans, green peas, hay, spearmint, wheat, hops, dry peas, lentils, peaches, and apples) were not found to have a significant positive or negative trend. These trends were used by WSU to forecast future crop production using Vector Autoregression (VAR) analysis. The forecast accounts for typical factors that affect crop production if those factors have been present in the sample period. For example, weather and market cycles and trends from 1981-2004 are taken into account using this forecast system. However, because the forecast relies solely on historical data, any factors that affect crop production that have not occurred in the sample period would not be included in the forecast. New technologies or market changes that significantly change crop production compared to the sample period cannot be predicted by this forecast method.

The results of the predicted future agricultural production and acreage for the various crop types are presented in Appendix D. Forecasts for some crops, such as wine grapes, were not made because stable relationships between variables in the VAR equations used did not exist for the crop. Stability of an estimated VAR is required in order to generate reasonable (unbiased and consistent) forecasts. Otherwise, forecasts tend to “explode” in unreasonable ways as predictions are forecasted into the future. For County-level regressions, stable VARs are rarely found for more than four of the important crops.

Table 5-7 provides a short description of the crops with forecasts and the estimated increase or decrease in acreage or production of each. Figure 5-4 shows the projected total crop

acreage for Counties in the Columbia River Basin. The expected trend in total crop acreage shows a stable pattern with no significant increase or decrease in acreage. At the 95% confidence level, an increase of nearly one-million acres of agricultural land is possible; or a decrease of about 750,000 acres is possible. The figure shows the expected trend and bounding trends at a 95% confidence interval. The total crop acreage shown on Figure 5-4 includes dryland wheat farming.

### **5.3.1.3 Conclusions about Future Water Demand in the Agricultural Sector**

The results of the WSU study show little or no change in expected crop acreage in the Columbia River Basin. However, the study could not forecast acreage for a few important crops such as wine grapes and alfalfa. The study acknowledges various necessary limitations in approach, and presents the possibility of both an increase or a decrease in crop acreage. In terms of potential water demand, the lack of an increase in acreage and overall stability in the crop patterns would suggest that, in aggregate, the demand for irrigation water should remain relatively constant with no significant new demand. However, no definite conclusions could be made regarding the need for additional water based solely on this report.

### **5.3.2 Agricultural Sector – USGS Water Use**

It was not possible to develop a sophisticated analysis of growth and validate potential growth in agricultural water use.

- As noted above, the WSU study was based on a total current crop acreage (both irrigated and non-irrigated) for the entire Columbia Basin of around 3,200,000 acres.
- The year 2000 total agricultural water use in Washington counties in the Columbia Basin was estimated at over 3,200,000 AF per year (Lane, 2004). At an average duty of 3.5 feet per year, this is equivalent to 1,156,000 irrigated acres.
- The WSU study indicated that total crop acreage over the next 20 years will remain stable, although increases or decreases of up to 750,000 acres are possible.
- Water right applications suggest an increase by about 60,000 acres.
- The general “mood” of the WSU survey results was for a stable or declining agricultural demand.
- If the Columbia Basin project were completed to its full capacity, an additional 400,000 of irrigated lands could be brought into production;
- Complete conversion of irrigated lands in the Odessa Subarea from ground water to surface water would put 170,000 acres of land on a Columbia River water supply.

Given the wide range in potential irrigation demands, a simple projection of irrigation water use to the year 2025 was made for a range of possible demands. Increases in future demand for irrigation water (if they occur) will represent a combination of additional irrigated acres, a transition to more water intensive crops, or a need for more water in response to higher temperatures and longer growing seasons because of climate change. However, it was not possible to develop a more sophisticated approach and validate the estimated growth rate with the inventory data and time available for the initial forecast. Factors related to

conservation, agricultural economics, and climatic factors are not incorporated in this projection of water demand. With additional time for analysis, future forecasts can examine the more detailed relationships between agricultural water demand and these other factors.

Figure 5-5 shows the range of potential growth in irrigation water demand at the year 2025 based on existing information. The figure shows the annual change in irrigation demand as a percent on the x-axis, and the additional demand for water in the year 2025 on the y-axis. A second y-axis is shown on the left side of the figure that shows equivalent additional irrigated acres. The irrigation demand assumes a water duty of 3.5 AF per acre, and the irrigated acreage increase assumes a current level of irrigated land at 1,156,000 acres. Figure 5-5 also shows the volume of saved water from currently identified agricultural conservation projects (see Chapter 4). There are several discussion points related to this figure:

1. The 57,354 acres of new irrigation water right applications are equivalent to an annual growth rate of about 0.35% per year or a 9% total increase in irrigated area by the year 2025.
2. By contrast, a 15% total increase in irrigated acreage by the year 2025 (0.6% per year) would bring an equivalent 95,000 acres of irrigated land into production.
3. If agriculture were to grow to the WSU high projection, and the entire Columbia Basin Project was brought into production, and the Odessa Subarea was completely converted to surface water, new irrigation demands could approach or exceed 2 million acre feet per year.

Table 5-8 shows the projected increase in water use based on year 2000 USGS estimate and the optimistic assumption that irrigation water use will increase by 15% by the year 2025.

### **5.3.3 Municipal Sector (Domestic and Commercial/Industrial)**

Future domestic water demand is ultimately related to the increase in population for the region. The economic factors that affect population growth are not incorporated in this analysis. The two domestic water demand projections provided below are based on a fundamental assumption that the population forecasts provided by OFM are a realistic basis for projecting water demand. Offsetting factors related to municipal conservation requirements, water reuse or land use constraints are not incorporated in this projection of water demand. With additional time for analysis, future forecasts can examine the more detailed relationships between domestic water demand and other factors.

The OFM moderate forecast for population growth indicates that, over the next 20 years, population at a County level will increase from less than 5% to over 30% (Figure 5-6). These growth rates can be used in two ways:

- On average, 20-year population growth for all counties in the Columbia Basin is projected to be about 20%, or an additional 350,000 people. If only Counties that lie adjacent to the Management Zone are considered, the projected population increase is lower, on the order of 157,000 people. At an average per capita water use rate (170 gpd per person), these populations are equivalent to 67,400 AF per year (all



counties) and 29,600 AF per year (counties adjacent to Columbia River).

- Applying the County growth rates to the year 2000 USGS water use survey estimate of domestic water use (both public supply and self supplied) results in a similar water demand: about 52,500 AFY (all counties) and 18,800 AFY (counties adjacent to Columbia River).

Additional commercial/industrial water demand in 2025 was assumed to grow at the same rate as the growth in population. The economic factors that affect commercial/industrial growth are not incorporated in this analysis and offsetting factors related to conservation requirements, water reuse or land use constraints are not incorporated. With additional time for analysis, future forecasts can examine the more detailed relationships between commercial/industrial water demand and other factors. A commercial/industrial water demand of about 42,000 AFY (all counties) and 28,400 AFY (counties adjacent to Columbia River) is projected assuming that this sector grows at a similar rate to population growth. A lower commercial/industrial growth rate might be more realistic, but the higher rate is used for comparison to water right applications.

Table 5-8 shows the projected increase in water use based on year 2000 USGS estimate and the assumption that domestic and commercial water use will increase by 20% by the year 2025.

### **5.3.4 Comparison of First Tier and Second Tier Demand Projections**

In general, it appears that the total demand for water expressed in the existing water right applications exceeds the total demand for water

that is likely to occur based on simplistic projection methodologies. Table 5-9 indicates that:

- The first tier water demand forecast for irrigation water based on water right applications in the Management Zone (211,000 AF) is greater than the expected basin-wide irrigation demand based on the second tier WSU projection (zero), but less than more optimistic projections that are possible.
- The first tier water demand forecast for domestic water based on water right applications (86,849 AF) in the Management Zone is greater than the estimated range of domestic water demand both basin-wide and for Counties adjacent to the Columbia River.
- The first tier water demand forecast for commercial industrial water based on water right applications (82,237 AF) in the Management Zone is greater than the estimated range of domestic water demand both basin-wide (42,000 AF) and for Counties adjacent to the Columbia River (28,400 AF).

Figure 5-7 shows the monthly demand profile based on both the current water right applications and the projections described above. The demand profile is based on the shaping factor described in Chapter 4 and the profile uses an optimistic increase in future agricultural demand of 15% at the year 2025 (see Figure 5-5). Figure 5-7 shows that total demand during July could exceed 2,500 cfs under an optimistic irrigated lands projection, but is on the order of 1,500 cfs based on water right applications. This equivalent flow rate does not compensate for return flows from municipal wastewater plants or from irrigation return flows and therefore represents a worst case monthly demand on the Columbia River.

In relation to the goals of the Columbia River Management Program, there are two relevant considerations:

1. First, although there is a discrepancy between water right applications and potential future demand, this does not mean that individual water right applications are not valid or that future total water use will not approach the quantities currently requested in applications. In the case of irrigated agricultural demand, actual demand for Columbia River water could exceed what is current in applications, particularly if the Columbia Basin Project (CBP) is developed further. A more detailed evaluation of individual water right requests and more sophisticated demand projection methodology is necessary to address individual situations and to factor in issues such as the CBP.
2. Second, the estimated future water (both water right applications and expected levels of use) is conservative (i.e., high) and reasonably close to the conservation savings currently identified in the basin. This, coupled with the possibility of additional storage in the basin and identification of additional conservation projects, suggests that actual future demands for water can be accommodated in large part through the Management Program's current strategy of conservation and storage.

### **5.3.5 Comparisons to Existing Water Rights and Existing Storage**

One final consideration is the ability of existing water rights and storage to accommodate future demand. Existing water right capacity, defined as the difference between current water use and existing water rights, is a consideration in evaluating water demand forecast at a basin scale. The degree to which existing water rights can satisfy future changes in the amount and

distribution of water demand is a very complex issue. The implication of existing water right capacity on decisions regarding permit applications was acknowledged in the National Academy of Sciences study (National Research Council, 2004):

*“For a given permit application, whether one looks to upstream or downstream rights, it would be incorrect to assume that present flows in the mainstem accurately reflect current legal allocations”.*

It is also incorrect to assume that all documented water rights are valid and the potential relinquishment of many of these rights due to non-use needs to be considered. In effect, there is currently not an accurate picture of legal entitlements to water from the Columbia River and there will likely not be one in the immediate future. Although simple comparisons between projected water use and existing water right capacity are not valid in a strict sense, the total existing quantity of non-hydroelectric water rights and existing non-hydroelectric storage in the basin is much larger than the estimated use. While there are many factors that would tend to reduce the amount of this existing capacity to meet future needs, it is likely that there is some capacity in existing water rights and storage to meet future demand.

The ability to “optimize” these existing rights and storage volumes can be accomplished through a number of institutional and technical approaches. Engineering optimization of conveyance and storage systems is one way to optimize the use of existing rights, moving water from areas where valid “excess” water rights exist to areas where water is needed. Water

banks, water trusts, and water reuse are other options, and Appendix D contains a more detailed summary of these mechanisms. In order to facilitate these optimization strategies, Washington water law requires that any water rights associated with the strategy be subject to an analysis of beneficial use. This includes an assessment of the quantity, place, and purpose of use over the past five years and a relinquishment of rights that have not been put to beneficial use over that time period. This has been a significant impediment to implementation of these water optimization strategies.

## 5.4 Conclusions

Based on the available information, the most important conclusion is that the future balance between water supply and water demand in the Columbia River is not yet well understood. Demand is likely to increase and supply is likely to decrease, but a variety of future scenarios exist regarding the details of this future water balance. Additional work at both an inventory and forecasting level is necessary to refine the analysis presented in this report.

However, it is also likely that the demand for water currently expressed in existing water right applications is representative of the demand for water in the future and efforts to plan for this level of growth in water demand should accommodate the objectives for the initial planning cycle of the Columbia River Management Program. At this initial stage of the development of the Management Program, planning for a water demand that represents a mid-point between the lower bounds (i.e. zero new demand) and upper bounds (>1 MAF of

new demand) is reasonable. Planning for water use in this range is also consistent with what is known about existing applications and other water supply problems that are known to exist adjacent to the Columbia within Washington State.

Finally, the magnitude of water conservation and storage volumes currently under consideration on or adjacent to the Columbia River is large and, if developed, could improve water supplies for all beneficial uses, including streamflows. Whether this conservation will ultimately accrue to the Columbia River is subject to some uncertainty and must be evaluated on a case-by-case basis. The key will be to accurately understand the volume of water that accrues to the Columbia River, particularly in the months of July and August when flow and temperature concerns can be particularly acute. In this regard, storage may provide more certainty than conservation, since it can be better defined and measured on a larger scale.

Over the long-term, the focus on conservation and storage as management tools to create a sustainable balance between water supply and demand should be successful, both on a case-by-case basis and in aggregate as more refined analyses are developed to document and track the water balance in the Columbia River. As Ecology develops capacity over time, future legislative reports will provide more specific examples of individual projects and a more robust assessment of aggregate performance. Further stakeholder outreach will allow for improved collaboration on specific technical issues or other factors that affect the performance of the program.

## **TABLES**

**Table 5-1. New Water Right Applications Within the Management Zone<sup>1</sup>, Designated Agriculture<sup>2</sup>**

County	Ground Water						Surface Water					
	No. Records		Acres Irrigated		Q <sub>a</sub> <sup>3</sup> (AF)		No. Records		Acres Irrigated		Q <sub>a</sub> <sup>4</sup> (AF)	
	N	C	N	C	N	C	N	C	N	C	N	C
Benton	15	4	3,600	2,010	12,276	6,854	22	8	14,313	11,616	54,676	44,373
Chelan	7	4	144	159	491	542	11	5	485	294	1,853	1,123
Douglas	14	26	1,231	1,856	4,198	6,329	22	22	4,326	1,448	16,525	5,531
Ferry	NA	NA	NA	NA	0	0	5	2	205	140	783	535
Franklin	11	11	5,442	1,918	18,557	6,540	9	7	3,145	4,644	12,014	17,740
Grant	17	15	4,470	716	15,243	2,442	1	NA	10,000	NA	38,200	0
Kittitas	2	4	140	440	477	1,500	4	NA	0	NA	0	0
Klickitat	7	3	1,495	56	5,098	191	6	NA	1,957	NA	7,476	0
Lincoln	1	NA	130	NA	443	0	NA	NA	NA	NA	0	0
Okanogan	9	9	471	532	1,606	1,814	10	12	2,209	458	8,438	1,750
Skamania	2	NA	23	NA	78	0	3	NA	25	NA	96	0
Stevens	NA	NA	NA	NA	0	0	3	14	145	145	554	554
Walla Walla	8	3	1,803	370	6,148	1,262	6	7	1,595	3,026	6,093	11,559
Yakima	NA	NA	NA	NA	0	0	NA	NA	NA	NA	0	0
<b>Subtotals:</b>	<b>93</b>	<b>79</b>	<b>18,949</b>	<b>8,057</b>	<b>64,616</b>	<b>27,474</b>	<b>102</b>	<b>77</b>	<b>38,405</b>	<b>21,771</b>	<b>146,707</b>	<b>83,165</b>
<b>Total</b>	<b>172</b>		<b>27,006</b>		<b>92,090</b>		<b>179</b>		<b>60,176</b>		<b>229,872</b>	

**NOTES**

Abbreviations: No.: Number; Q<sub>a</sub>: annual quantity; AF: acre-feet; NA: Not Applicable; N: New Applications; and, C: Change Applications, Change Permits and Change ROE.

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone. Provided by Ecology August 2, 2006.

<sup>2</sup> Agriculture incorporates the following uses: DY, FP, IR, ST.

<sup>3</sup> Q<sub>a</sub> for ground water right applications is calculated by multiplying the acres irrigated by 3.41. (Average water duty for applications that specify Q<sub>a</sub> and acres).

<sup>4</sup> Q<sub>a</sub> for surface water right applications is calculated by multiplying the acres irrigated by 3.82. (Average water duty for applications that specify Q<sub>a</sub> and acres).

**Table 5-2.** New Water Right Applications Within the Management Zone<sup>1</sup>, Designated Domestic<sup>2</sup>

County	Ground Water						Surface Water					
	No. Records		Q <sub>i</sub> <sup>3</sup> (cfs)		Q <sub>a</sub> <sup>4</sup> (AF)		No. Records		Q <sub>i</sub> <sup>3</sup> (cfs)		Q <sub>a</sub> <sup>4</sup> (AF)	
	N	C	N	C	N	C	N	C	N	C	N	C
Benton	11	4	13	10	4,731	2,454	NA	3	NA	1,571	NA	23,544
Chelan	13	11	12	10	4,427	1,003	6	6	21	25	7,694	2,262
Douglas	33	16	40	15	14,650	1,776	9	7	3	105	1,044	653
Ferry	2	NA	0	NA	313	NA	NA	6	NA	136	NA	NA
Franklin	11	4	10	6	3,467	222	NA	NA	NA	NA	NA	NA
Grant	22	22	41	9	14,778	3,061	NA	1	NA	0	NA	0
Kittitas	1	NA	1	NA	484	NA	NA	NA	NA	NA	NA	NA
Klickitat	12	4	19	4	5,352	944	2	2	6	35	2,533	8,528
Lincoln	18	2	17	2	6,087	72	5	1	0	0	299	0
Okanogan	36	5	19	4	6,732	683	NA	2	NA	1	NA	218
Skamania	1	1	0	0	57	2	3	NA	0	NA	22	NA
Stevens	9	NA	11	NA	3,860	NA	14	4	3	0	1,043	NA
Walla Walla	6	7	26	3	9,281	387	NA	NA	NA	NA	NA	NA
Yakima	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Subtotals:</b>	<b>175</b>	<b>76</b>	<b>209</b>	<b>63</b>	<b>74,216</b>	<b>10,602</b>	<b>39</b>	<b>32</b>	<b>33</b>	<b>1,873</b>	<b>12,634</b>	<b>35,204</b>
<b>Total</b>	<b>251</b>		<b>272</b>		<b>84,818</b>		<b>71</b>		<b>1,906</b>		<b>47,837</b>	

**NOTES**

**Abbreviations:** No.: Number; Q<sub>a</sub>: annual quantity; Q<sub>i</sub>: instantaneous quantity; AF: acre-feet; N: New Applications; C: Change Applications, Change Permits and Change ROE; NA: Not Applicable; CFS: cubic feet per second; and, GPM: gallons per minute.

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone.

Provided by Ecology August 2, 2006.

<sup>2</sup> Domestic incorporates the following uses: DG, DM, DS, HE, MU, RE

<sup>3</sup> Q<sub>i</sub> for water right applications is converted from GPM to CFS if reported in GPM (1 GPM = 0.002228 CFS).

<sup>4</sup> Q<sub>a</sub> for water rights applications is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. Calculation is based on continuous use, divided by 2 (see text for explanation).



**Table 5-3. New Water Right Applications Within the Management Zone<sup>1</sup>, Designated Commercial and Industrial<sup>2</sup>**

County	Ground Water						Surface Water					
	No. Records		Q <sub>i</sub> <sup>3</sup> (cfs)		Q <sub>a</sub> <sup>4</sup> (AF)		No. Records		Q <sub>i</sub> <sup>3</sup> (cfs)		Q <sub>a</sub> <sup>4</sup> (AF)	
	N	C	N	C	N	C	N	C	N	C	N	C
Benton	8	3	15	1	5,278	295	6	3	98	661	35,586	1,637
Chelan	1	1	0	0	1	160	NA	6	NA	52	NA	15,561
Douglas	1	3	4	0	1,614	94	NA	1	NA	3	NA	688
Ferry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Franklin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Grant	1	1	5	5	1,937	600	NA	NA	NA	NA	NA	NA
Kittitas	1	NA	0	NA	73	NA	NA	NA	NA	NA	NA	NA
Klickitat	5	1	11	1	3,874	400	1	1	1	35	362	8,524
Lincoln	2	NA	7	NA	2,421	NA	NA	NA	NA	NA	NA	NA
Okanogan	NA	NA	NA	NA	NA	NA	1	NA	54	NA	19,405	NA
Skamania	3	NA	6	NA	1,481	NA	NA	NA	NA	NA	NA	NA
Stevens	NA	NA	NA	NA	NA	NA	1	NA	0	NA	22	NA
Walla Walla	4	6	9	9	2,941	2,016	1	NA	20	NA	7,245	NA
Yakima	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Subtotals:</b>	<b>26</b>	<b>15</b>	<b>57</b>	<b>16</b>	<b>19,619</b>	<b>3,565</b>	<b>10</b>	<b>11</b>	<b>173</b>	<b>751</b>	<b>62,618</b>	<b>26,410</b>
<b>Total</b>	<b>41</b>		<b>73</b>		<b>23,184</b>		<b>21</b>		<b>924</b>		<b>89,028</b>	

**NOTES**

Abbreviations: No.: Number; Q<sub>a</sub>: annual quantity; Q<sub>i</sub>: instantaneous quantity; AF: acre-feet; N: New Applications; C: Change Applications, Change Permits and Change ROE; NA: Not Applicable; CFS: cubic feet per second; and, GPM: gallons per minute.

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone.

Provided by Ecology August 2, 2006.

<sup>2</sup> Commercial and Industrial incorporates the following uses: CI, CO, HW, MI, RW

<sup>3</sup> Q<sub>i</sub> for water right applications is converted from GPM to CFS if reported in GPM (1 GPM = 0.002228 CFS).

<sup>4</sup> Q<sub>a</sub> for water rights applications is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. Calculation is based on continuous use, divided by 2 (see text for explanation).

**Table 5-4.** New Water Right Applications Within the Management Zone<sup>1</sup>, Designated Environment and Wildlife<sup>2</sup>

County	Ground Water						Surface Water					
	No. Records		Q <sub>i</sub> <sup>3</sup> (AF)		Q <sub>a</sub> <sup>4</sup> (AF)		No. Records		Q <sub>i</sub> <sup>3</sup> (AF)		Q <sub>a</sub> <sup>4</sup> (AF)	
	N	C	N	C	N	C	N	C	N	C	N	C
Benton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chelan	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Douglas	1	NA	4	NA	2,905	NA	NA	1	NA	0	NA	80
Ferry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Franklin	NA	NA	NA	NA	NA	NA	1	NA	10	NA	7,245	NA
Grant	1	NA	2	NA	1,614	NA	NA	NA	NA	NA	NA	NA
Kittitas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Klickitat	NA	NA	NA	NA	NA	NA	1	NA	0	NA	14	NA
Lincoln	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Okanogan	1	NA	0	NA	323	NA	NA	NA	NA	NA	NA	NA
Skamania	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Stevens	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Walla Walla	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Yakima	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Subtotals:</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>4,842</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>7,259</b>	<b>80</b>
<b>Total</b>	<b>3</b>		<b>6</b>		<b>4,842</b>		<b>3</b>		<b>10</b>		<b>7,339</b>	

**NOTES**

Abbreviations: No.: Number; Q<sub>a</sub>: annual quantity; Q<sub>i</sub>: instantaneous quantity; AF: acre-feet; N: New Applications; C: Change Applications, Change Permits and Change ROE; NA: Not Applicable; CFS: cubic feet per second; and, GPM: gallons per minute.

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone.

Provided by Ecology August 2, 2006.

<sup>2</sup> Environment and Wildlife incorporates the following uses: EN, FR, FS, WL

<sup>3</sup> Q<sub>i</sub> for water right applications is converted from GPM to CFS if reported in GPM (1 GPM = 0.002228 CFS).

<sup>4</sup> Q<sub>a</sub> for water rights applications is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. Assumes water is used continuously.

**Table 5-5.** New Water Right Applications Within the Management Zone<sup>1</sup>, Designated Undefined Use<sup>2</sup>

County	Ground Water						Surface Water					
	No. Records		Q <sub>i</sub> <sup>3</sup> (AF)		Q <sub>a</sub> <sup>4</sup> (AF)		No. Records		Q <sub>i</sub> <sup>3</sup> (AF)		Q <sub>a</sub> <sup>4</sup> (AF)	
	N	C	N	C	N	C	N	C	N	C	N	C
Benton	NA	15	NA	2	NA	364	NA	18	NA	854	NA	190,146
Chelan	NA	6	NA	2	NA	270	NA	6	NA	0	NA	0
Douglas	1	3	2	1	1,114	280	1	4	0	0	161	0
Ferry	NA	NA	NA	NA	NA	NA	NA	5	NA	0	NA	0
Franklin	NA	5	NA	29	NA	5,393	NA	NA	NA	NA	NA	NA
Grant	1	NA	1	NA	775	NA	NA	NA	NA	NA	NA	NA
Kittitas	1	NA	0	NA	161	NA	NA	NA	NA	NA	NA	NA
Klickitat	NA	3	NA	2	NA	1,440	NA	6	NA	36	NA	17,138
Lincoln	NA	1	NA	2	NA	839	NA	1	NA	0	NA	0
Okanogan	NA	NA	NA	NA	NA	NA	NA	2	NA	12	NA	3,098
Skamania	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Stevens	NA	3	NA	5	NA	3,776	NA	7	NA	2	NA	1,449
Walla Walla	NA	1	NA	3	NA	744	NA	1	NA	225	NA	43,704
Yakima	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Subtotals:</b>	<b>3</b>	<b>37</b>	<b>3</b>	<b>46</b>	<b>2,050</b>	<b>13,106</b>	<b>1</b>	<b>50</b>	<b>0</b>	<b>1,129</b>	<b>161</b>	<b>255,535</b>
<b>Total</b>	<b>40</b>		<b>49</b>		<b>15,156</b>		<b>51</b>		<b>1,129</b>		<b>255,696</b>	

**NOTES**

**Abbreviations:** No.: Number; Q<sub>a</sub>: annual quantity; Q<sub>i</sub>: instantaneous quantity; AF: acre-feet; N: New Applications; C: Change Applications, Change Permits and Change ROE; NA: Not Applicable; CFS: cubic feet per second; and, GPM: gallons per minute.

<sup>1</sup> Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile management zone.

Provided by Ecology August 2, 2006.

<sup>2</sup> Primary use is undefined or unrecognized (non-standard) use code.

<sup>3</sup> Q<sub>i</sub> for water right applications is converted from GPM to CFS if reported in GPM (1 GPM = 0.002228 CFS).

<sup>4</sup> Q<sub>a</sub> for water rights applications is calculated from Q<sub>i</sub> IF no Q<sub>a</sub> is provided. Assumes water is used continuously.

**Table 5-6. Tier 1 Monthly Water Use Forecast<sup>1</sup>**

County	Total Water Right Applications (AF)	Projected Monthly Increase (2000-2025) in Total Water Use (AF)											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Adams	-	-	-	-	-	-	-	-	-	-	-	-	-
Asotin	-	-	-	-	-	-	-	-	-	-	-	-	-
Benton	112,547	1,824	1,824	1,824	4,037	11,650	20,165	26,802	22,774	14,037	3,963	1,824	1,824
Chelan	14,466	485	485	485	668	1,460	2,285	2,780	2,639	1,544	665	485	485
Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Douglas	39,306	743	743	743	1,473	4,053	6,912	9,078	7,831	4,792	1,450	743	743
Ferry	1,096	13	13	13	36	114	203	275	228	142	35	13	13
Franklin	34,038	139	139	139	976	3,584	6,604	9,201	7,362	4,674	942	139	139
Garfield	-	-	-	-	-	-	-	-	-	-	-	-	-
Grant	70,933	700	700	700	2,277	7,409	13,260	18,086	14,870	9,314	2,218	700	700
Kittitas	1,195	29	29	29	48	122	203	260	231	139	48	29	29
Klickitat	24,695	485	485	485	936	2,544	4,321	5,656	4,900	2,992	922	485	485
Lincoln	9,250	352	352	352	452	928	1,409	1,666	1,639	943	451	352	352
Okanogan	36,180	1,045	1,045	1,045	1,570	3,677	5,919	7,398	6,793	4,035	1,559	1,045	1,045
Pend Oreille	-	-	-	-	-	-	-	-	-	-	-	-	-
Skamania	1,733	62	62	62	82	174	268	322	311	180	82	62	62
Spokane	-	-	-	-	-	-	-	-	-	-	-	-	-
Stevens	5,479	197	197	197	261	551	849	1,018	984	571	260	197	197
Walla Walla	31,708	779	779	779	1,295	3,243	5,356	6,848	6,112	3,679	1,281	779	779
Whitman	-	-	-	-	-	-	-	-	-	-	-	-	-
Yakima	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>382,621</b>	<b>6,852</b>	<b>6,852</b>	<b>6,852</b>	<b>14,111</b>	<b>39,511</b>	<b>67,754</b>	<b>89,389</b>	<b>76,674</b>	<b>47,044</b>	<b>13,878</b>	<b>6,852</b>	<b>6,852</b>

**NOTES**

Abbreviations: AF: acre-feet; -: Not applicable; WR Apps: water right applications

<sup>1</sup>Only includes counties strictly within the 1-mile management zone (excludes Adams, Asotin, Columbia, Garfield, Spokane, and Whitman).

**Table 5-7. Forecasted Growth in Crops<sup>1</sup>**

Crop	Forecasted Growth in Acreage or Production (2005 to 2025)
Barley	+38,600 acres
Dry Beans	-6,500 acres
Hay	-5,000 acres
Potatoes	-19,300 acres
Wheat	-101,500 acres
Grain Corn	-2,700 acres
Sweet Corn	-7,600 acres
Bluegrass Seed	-1,400 acres
Alfalfa Seed	-2,700 acres
Green Peas	+170 acres
Silage Corn	+5,850 acres
Peppermint	-2,600 acres
Apples	No change
Pears	-11,000 tons

**NOTES**

<sup>1</sup> Reference: Wandschneider, Philip, et al. 2006. Crop Production and Water Use Forecasts for the State of Washington Based on Econometric Estimation and Expert Opinion. School of Economic Sciences, Washington State University. September 2006.

**Table 5-8. Tier 2 Annual Water Use Forecast**

County	Estimated Water Use (2000)						Projected Change in Use (2000 - 2025) <sup>1</sup>					
	Domestic (public supplied) (AF/yr)	Domestic (self-supplied) (AF/yr)	Crop Irrigation (AF/yr)	Golf Course Irrigation (AF/yr)	Industrial (AF/yr)	County Total (AF/yr)	Domestic (public supplied) (AF/yr)	Domestic (self-supplied) (AF/yr)	Crop Irrigation (AF/yr)	Golf Course Irrigation (AF/yr)	Industrial (AF/yr)	County Total (AF/yr)
Adams	2,780	1,468	209,610	123	2,500	216,481	580	306	31,442	12	522	32,862
Asotin	4,125	235	224	123	0	4,707	676	38	34	12	NA	760
Benton	14,684	3,721	265,656	1,311	84,180	369,552	2,645	670	39,848	131	15,165	58,461
Chelan	6,580	2,242	56,382	818	16,253	82,275	1,403	478	8,457	82	3,466	13,887
Columbia	583	247	4831	56	90	5807	25	11	725	6	4	770
Douglas	3,497	594	27,462	347	3,744	35,644	824	140	4,119	35	882	5,999
Ferry	404	740	5033	45	325	6547	85	156	755	5	68	1,069
Franklin	9,079	2,477	489,838	191	1,962	503,547	2,152	587	73,476	19	465	76,699
Garfield	314	168	572	45	11	1110	34	18	86	5	1	144
Grant	11,075	5,941	1,042,446	2,287	3,598	1,065,347	1,801	966	156,367	229	585	159,947
Kittitas	7,342	1,558	223,061	516	1,580	234,057	1,616	343	33,459	52	348	35,818
Klickitat	2,320	1,054	29,704	146	3,116	36,340	495	225	4,456	15	665	5,855
Lincoln	1,334	706	40,241	202	11	42,494	282	149	6,036	20	2	6,490
Okanogan	4,551	4,192	81,378	370	4,237	94,728	732	675	12,207	37	682	14,333
Pend Oreille	594	785	829	0	1031	3239	142	188	124	NA	246	700
Skamania	628	460	280	235	12666	14269	119	87	42	24	2,395	2,666
Spokane	88,552	13,115	10,268	1,580	48,423	161,938	19,009	2,815	1,540	158	10,394	33,917
Stevens	2,858	2,074	10,682	146	135	15,895	979	711	1,602	15	46	3,353
Walla Walla	6,053	1,188	138,993	258	18,271	164,763	873	171	20,849	26	2,634	24,553
Whitman	3,632	1,009	3,139	90	0	7,870	357	99	471	9	NA	936
Yakima	28,807	14,236	637,798	1,424	7,297	689,562	5,912	2,922	95,670	142	1,498	106,143
<b>Total</b>	<b>199,792</b>	<b>58,210</b>	<b>3,278,427</b>	<b>10,313</b>	<b>209,430</b>	<b>3,756,172</b>	<b>40,742</b>	<b>11,756</b>	<b>491,764</b>	<b>1,031</b>	<b>40,070</b>	<b>585,363</b>
<b>Total Mgmt Zone Only</b>	<b>68,219</b>	<b>26,264</b>	<b>2,202,375</b>	<b>6,749</b>	<b>148,609</b>	<b>2,452,216</b>	<b>13,568</b>	<b>5,239</b>	<b>330,356</b>	<b>675</b>	<b>27,129</b>	<b>376,968</b>

See notes on next page.

Table 5-8

## NOTES

Abbreviations: NA: Not applicable; Mgmt: Management

<sup>1</sup>Domestic and industrial change in use based on medium forecast population growth (OFM, 2006). Agricultural change in use based on a 0.15% total increase in agricultural water use at 2025. See Section 5.3.2 for a detailed discussion.



**Table 5-9.** Comparison of First and Second Tier Demand Forecasts

Purpose of Use	First Tier Forecast (Water Right Applications) <sup>1</sup>		
	Q <sub>a</sub> (AF)	Additional Irrigated Acres	Population Increase
Agriculture	211,323	57,534	NA
Domestic	86,849 <sup>2</sup>	NA	450,000 <sup>3</sup>
Commercial	82,237	NA	NA
Undefined	14,392	NA	NA
<b>Total</b>	<b>394,801</b>		

**NOTES**

Abbreviations: AF: acre-feet; cfs: cubic feet per second; NA: Not applicable

<sup>1</sup> Includes water rights in Management Zone only.

<sup>2</sup> Assumes continuous use of requested Q<sub>i</sub> with a 50% reduction for peaking factor

<sup>3</sup> Population calculated based on a per capita use of 170 gallons per day per person.

Purpose of Use	Second Tier Forecast (Water Use Projection) <sup>1</sup>		
	Q <sub>a</sub> (AF)	Irrigated Acres	Population Increase
Agriculture	0 <sup>2</sup> – 330,000 <sup>3</sup>	0 <sup>2</sup> – 95,000 <sup>3</sup>	NA
Domestic	29,600 <sup>4</sup> - 67,400 <sup>5</sup>	NA	157,500 <sup>4</sup> -350,000 <sup>5</sup>
Commercial	28,400 <sup>4</sup> - 42,000 <sup>5</sup>	NA	NA
<b>Total</b>	<b>58,000 - 439,400</b>		

**NOTES**

Abbreviations: AF: acre-feet; cfs: cubic feet per second; NA: Not applicable

<sup>1</sup> Based on projection of USGS 2000 Water Use estimate to the year 2025.

<sup>2</sup> Projection based on WSU expected growth in crop acreage.

<sup>3</sup> Projection based on 15% growth in irrigated acreage by the year 2025 at 3.5 AF per acre water duty.

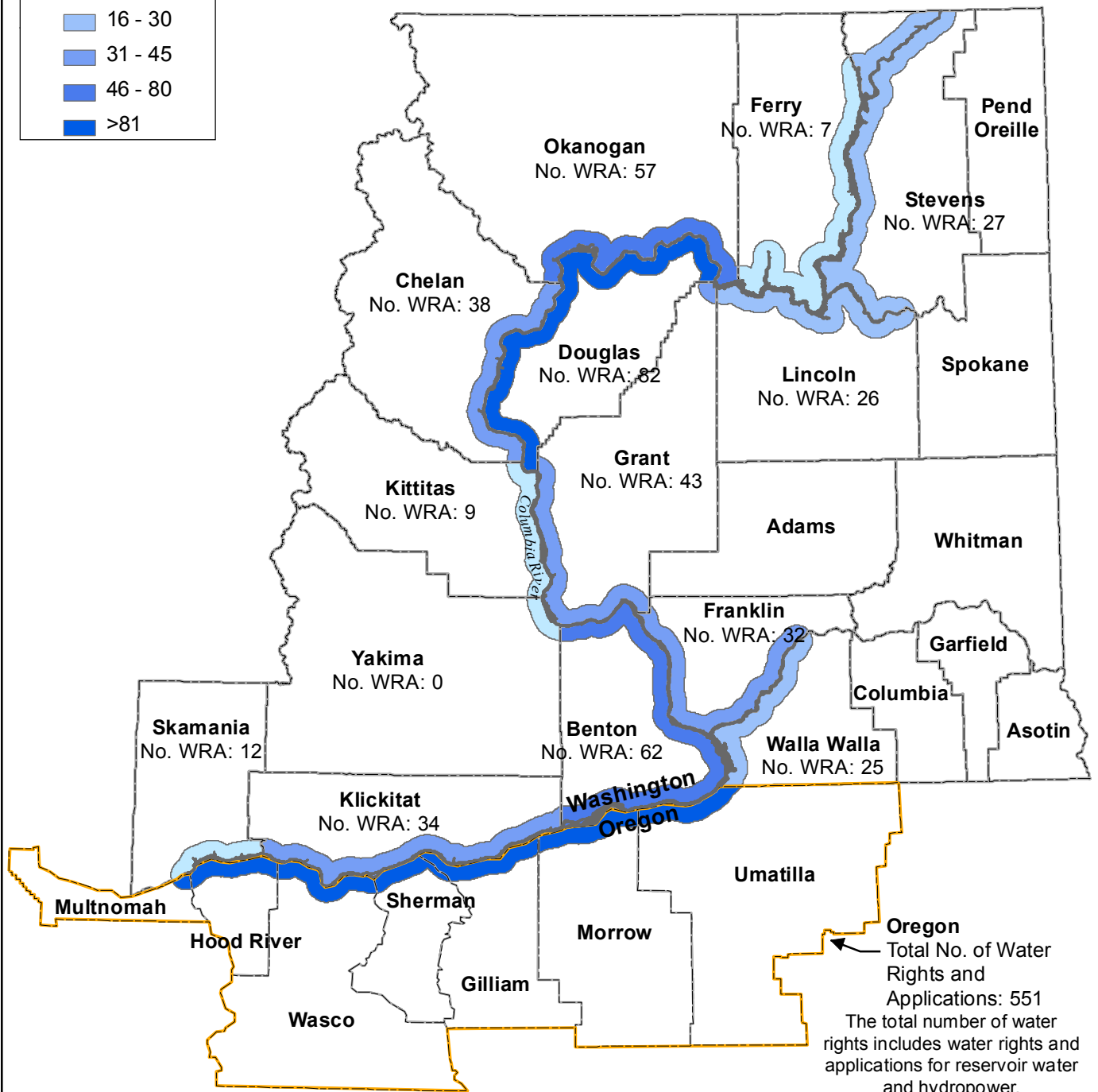
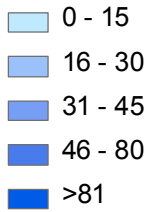
(Note: WSU high estimate in projected acreage is 750,000 acres).

<sup>4</sup> Projection based on OFM medium growth in population (Management Zone Only).

<sup>5</sup> Projection based on OFM medium growth in population (All Counties).

## **FIGURES**

# Number of Water Right Applications



**Oregon**  
Total No. of Water Rights and Applications: 551  
The total number of water rights includes water rights and applications for reservoir water and hydropower.

## Notes:

\* See tables 5-1, 5-2, 5-3, 5-4, and 5-5 for additional details.

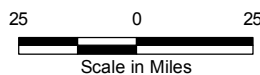
Reference: Washington State Water Rights Tracking System. Excerpt of water rights and water right application within the 1-mile management zone. Provided by Ecology August 2, 2006.

Reference: Oregon State Water Rights Information System (WRIS). Excerpt of water rights and water right application within the 1-mile management zone. Provided by OWRD September 14, 2006.

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

## LEGEND

~ River  
 □ County Boundary  
**AFY:** Acre-Feet per Year  
**WRA:** Water Right Applications

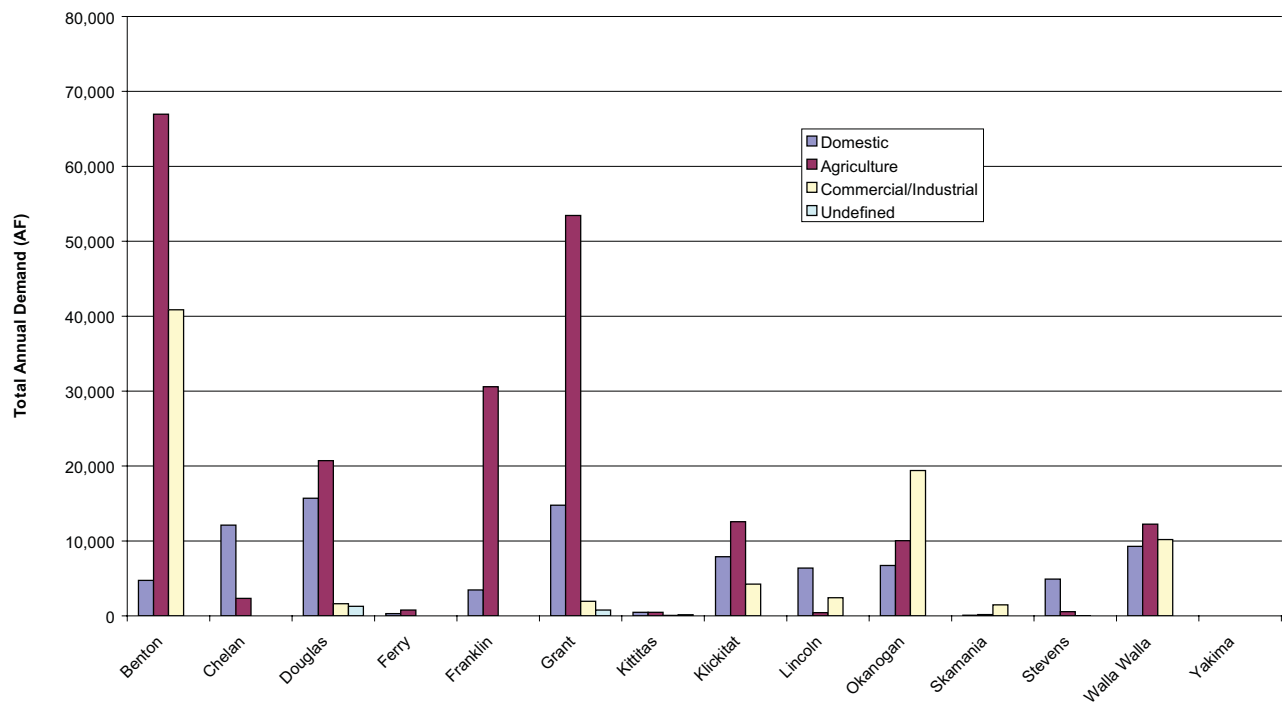
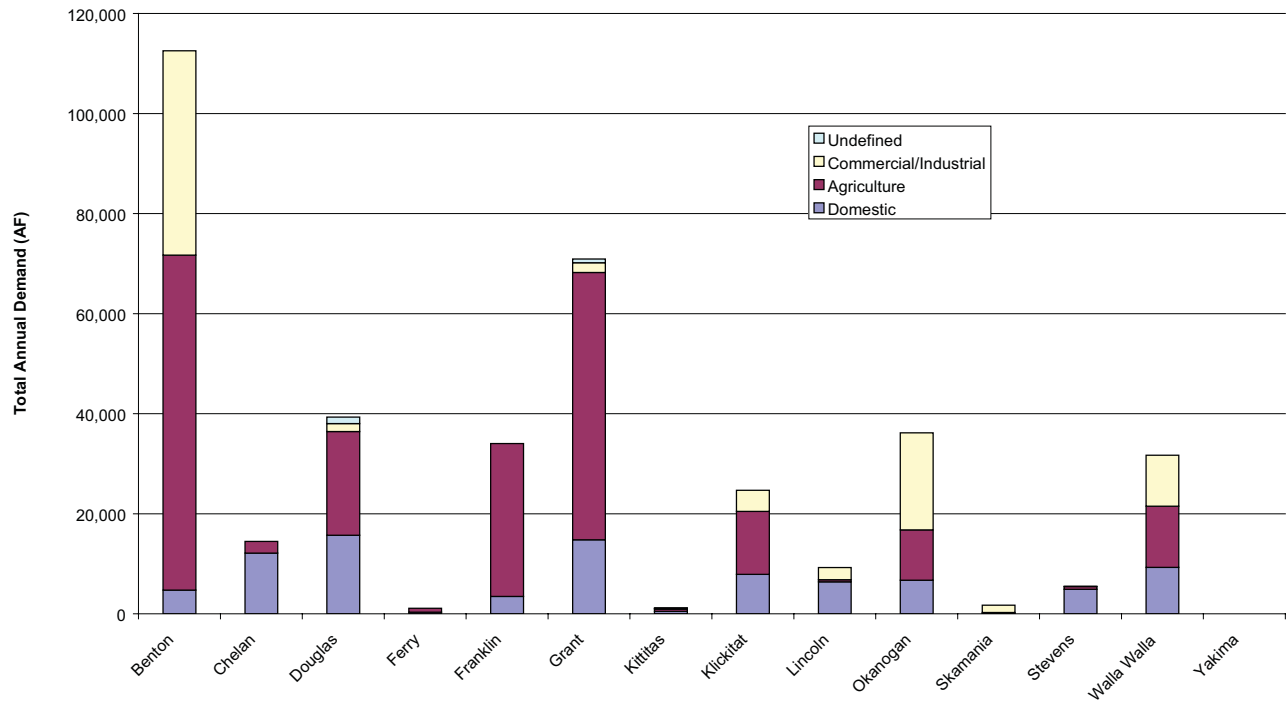


Map Projection:  
UTM Zone 11, NAD 83

Source: Ecology, OWRD



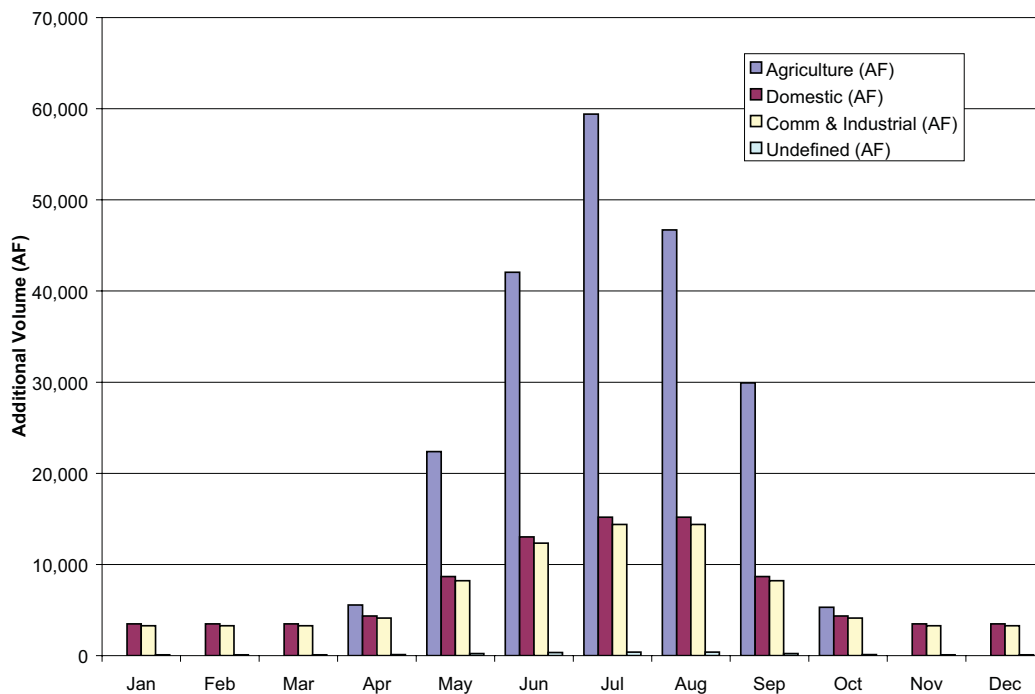
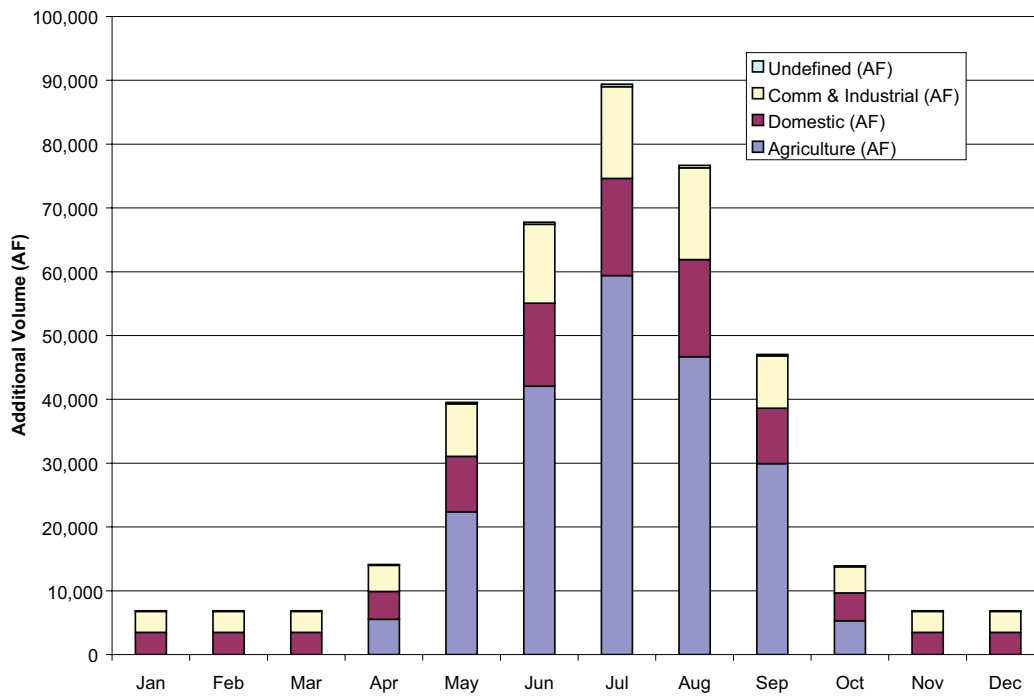
**FIGURE 5-1**  
**WATER RIGHT APPLICATIONS**  
**IN THE MANAGEMENT ZONE**  
 WSDOE/COLUMBIA BASIN WATER SPPLY/WA



**NOTES:**

1. Applications are within the one-mile Management Zone only.
2. Monthly demand based on a typical profile (figure 4-7-) described in Chapter 4.
3. See text for assumptions.

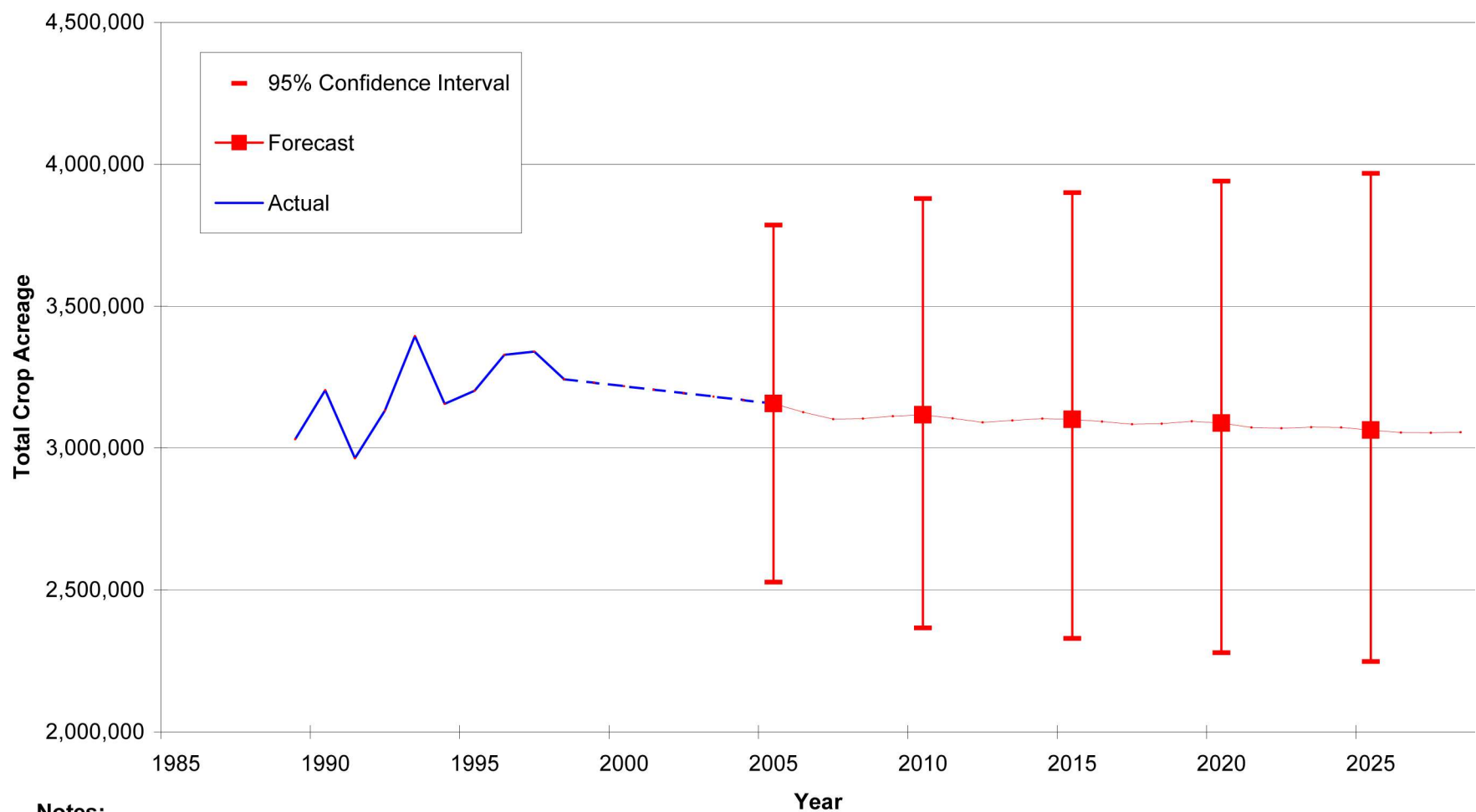
FIGURE **5-2**  
**TOTAL DEMAND BASED ON WATER**  
**RIGHT APPLICATIONS**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA



**NOTES:**

1. Applications are within the one-mile Management Zone only.
2. Monthly demand based on a typical profile (figure 4-7-) described in Chapter 4.
3. See text for assumptions.

FIGURE **5-3**  
**MONTHLY WATER DEMAND BASED ON**  
**WATER RIGHT APPLICATIONS**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA



**Notes:**

Adapted from WSU (2006) Figure 5 X-13

Includes non-irrigated crops.

FIGURE 5-4  
**TOTAL CROP ACREAGE FORECAST**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

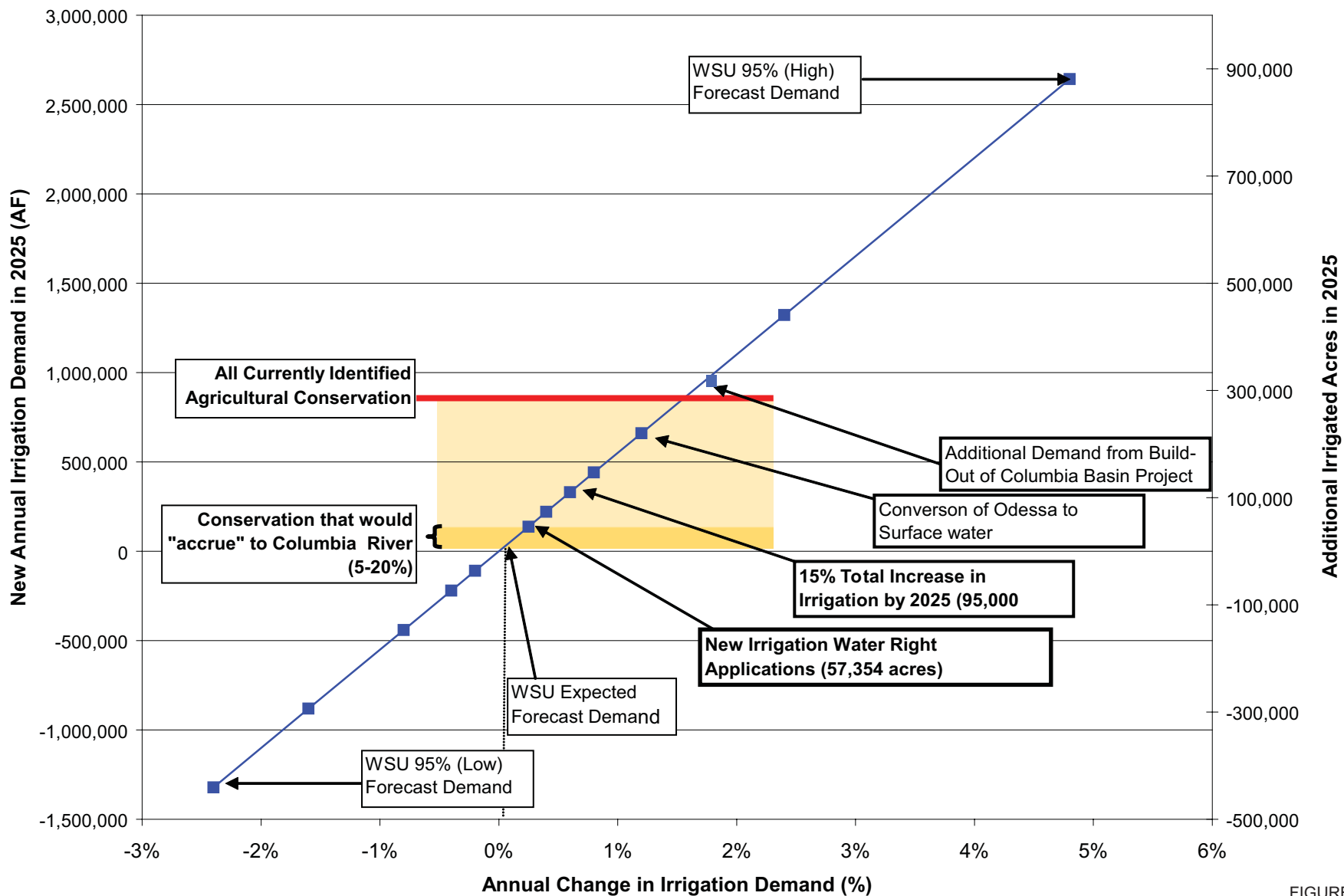
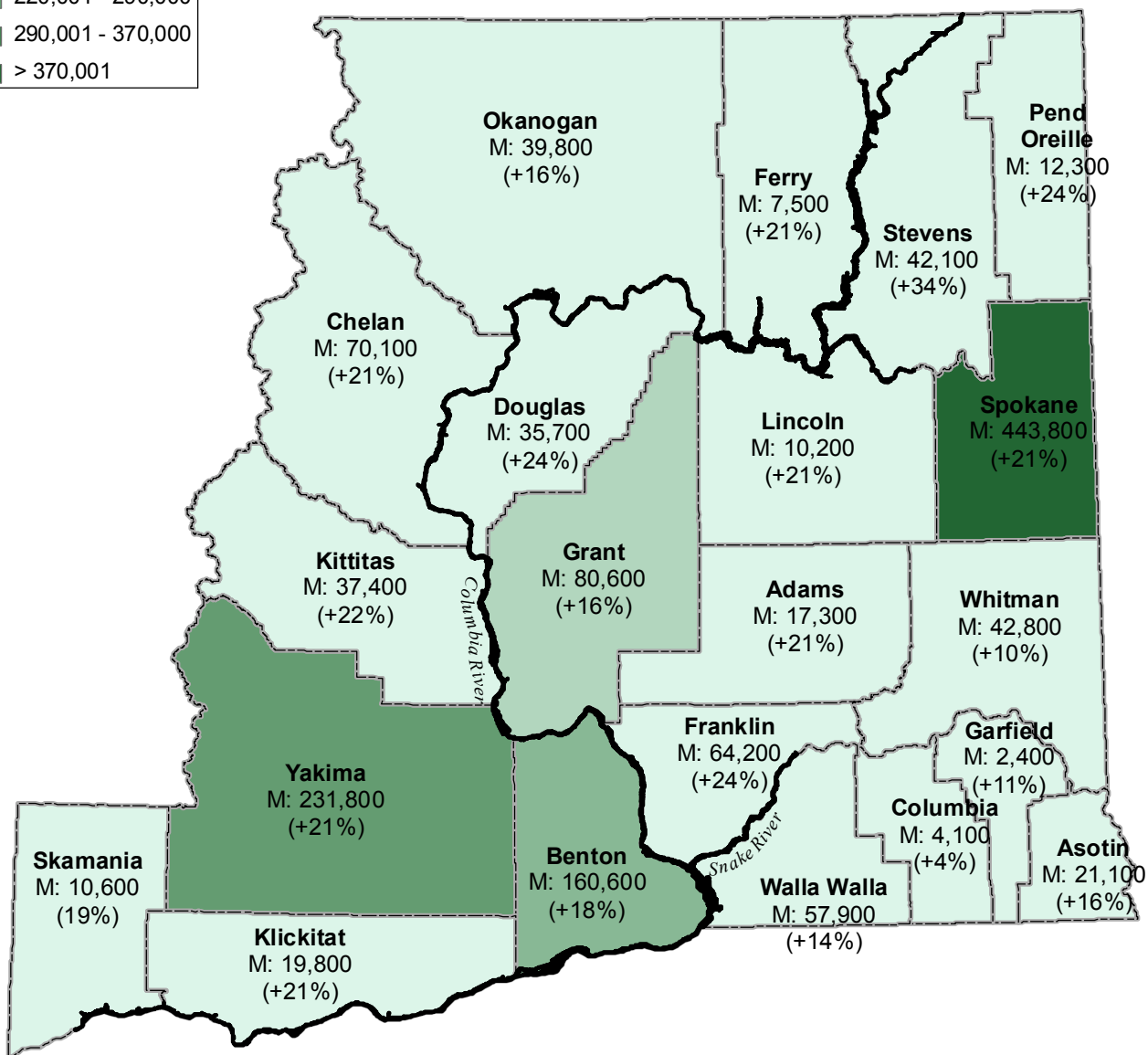
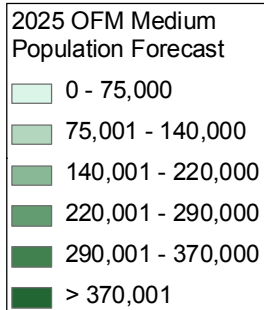


FIGURE 5-5  
**RANGE OF POTENTIAL  
 FUTURE IRRIGATION WATER DEMAND IN 2025**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

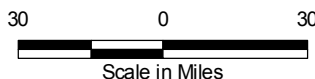




Notes:  
 \* Percent increase is the percent increase for the moderate population forecast from 2005 to 2025.  
 Reference: Office of Financial Management, Forecasting Division. File: gmacountychange.xls  
 From: www.ofm.wa.gov (accessed 9/06) Modified June 29, 2006.  
 Reference: Office of Financial Management, Forecasting Division. File: popden.xls  
 From: www.ofm.wa.gov (accessed 9/06) Modified July 05, 2006.

LEGEND

- River
- County Boundary
- M**: Medium Projection



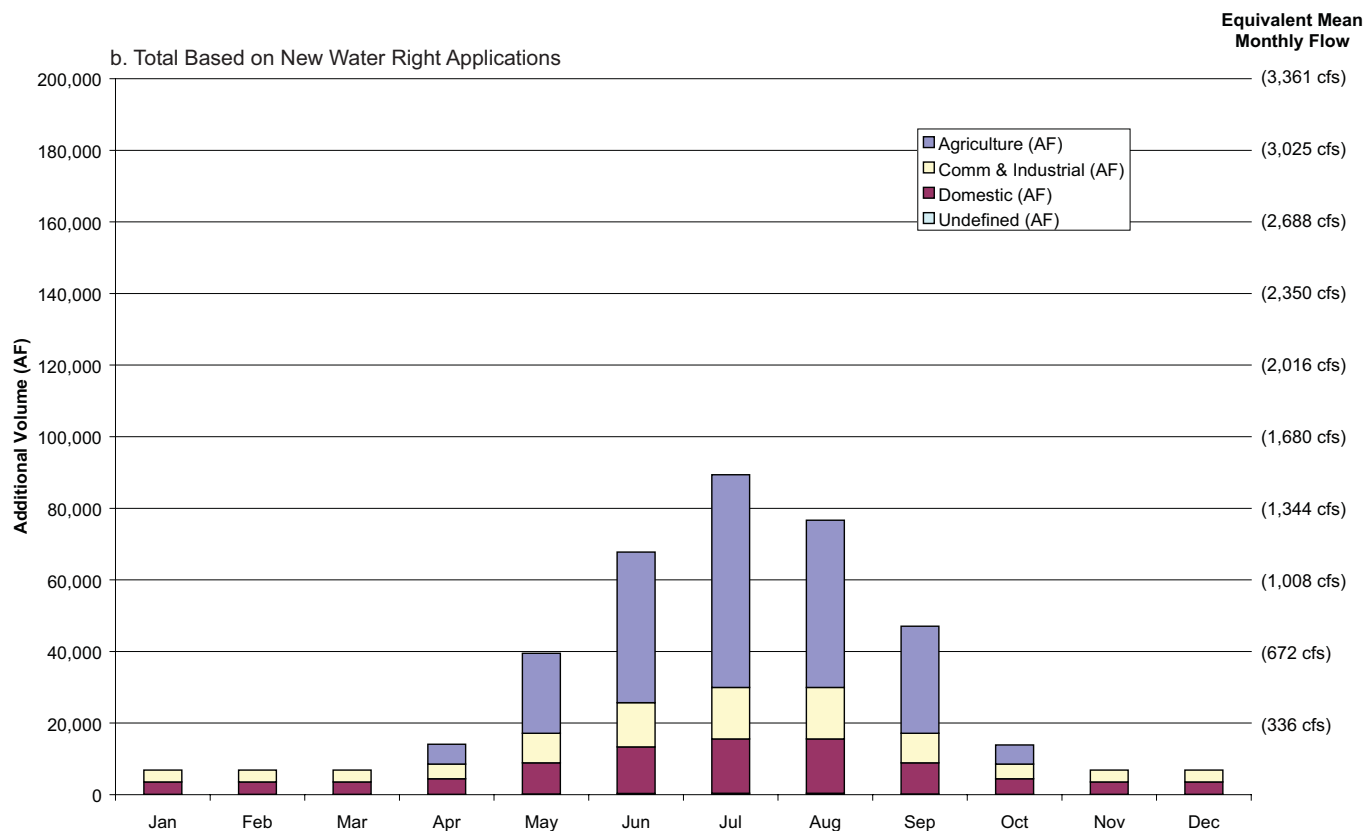
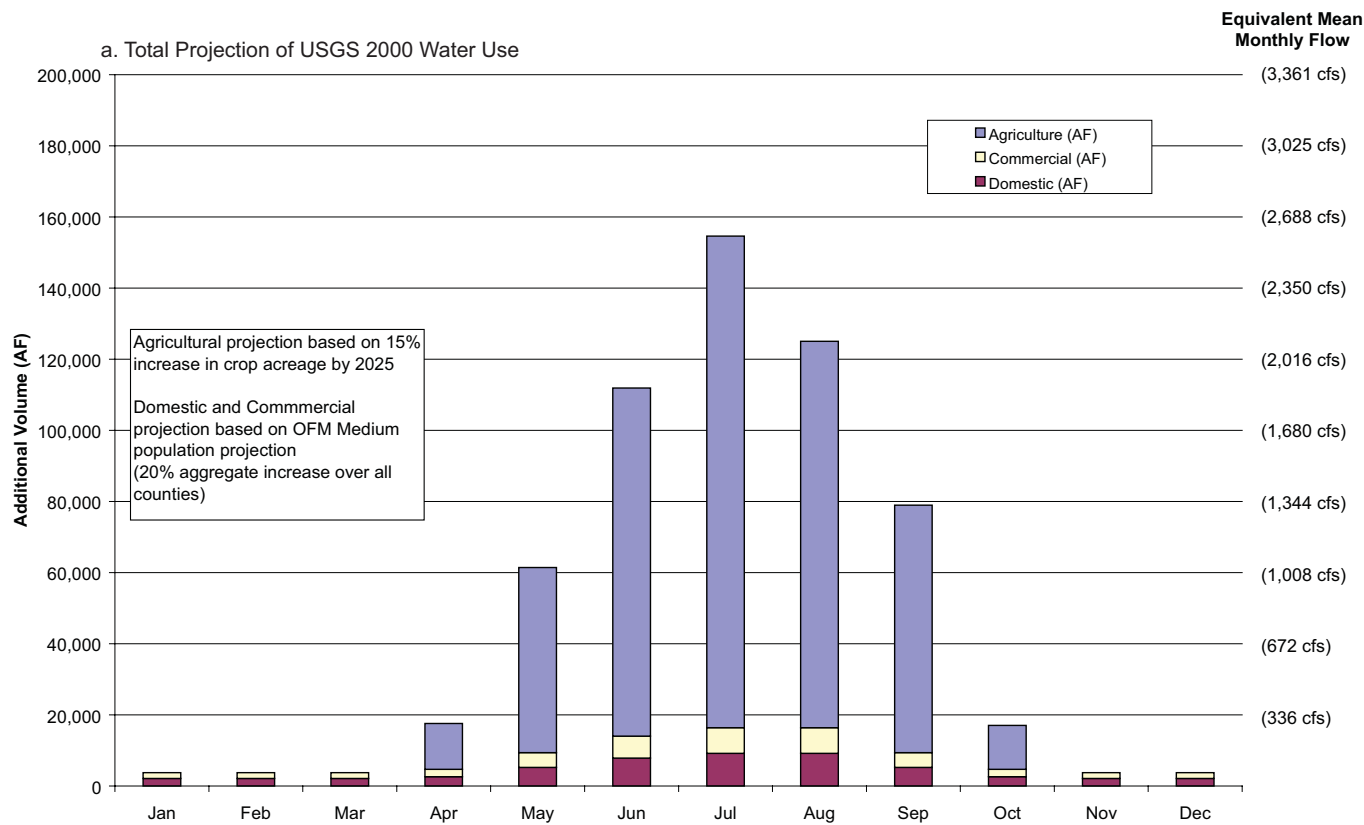
Map Projection:  
UTM Zone 11N, NAD 83

Source: OFM

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

FIGURE **5-6**  
**2025 OFM POPULATION  
 FORECAST**

WSDOE/COLUMBIA BASIN WATER SUPPLY/WA



**NOTES:**

1. Includes only total demand for counties adjacent to the Columbia River one-mile Management Zone.
2. Does not compensate for return flows.

**FIGURE 5-7**  
**PROJECTED TOTAL WATER USE INCREASE (2000-2025)**  
 WSDOE/COLUMBIA BASIN WATER SUPPLY/WA

## **APPENDIX D**

### **Chapter 5 Appendix**

**TABLE OF CONTENTS**

D.1.	WASHINGTON WATER RIGHT APPLICATION INVENTORY PROCESS	D-1
D.2.	WATER BANKS, WATER TRUSTS, AND WATER REUSE	D-3
	WASHINGTON STATE UNIVERSITY CROP FORECAST STUDY (WANDSCHNEIDER, ET AL., 2006)	D-8

## D.1. WASHINGTON WATER RIGHT APPLICATION INVENTORY PROCESS

Data was provided to Golder by Ecology in two GIS files. The two files were joined by GIS and exported into an Excel file. The data included all water rights and water right applications within 1 mile of the Columbia River.

Three columns were inserted into the joined Excel file. A column headed “RecordType” was inserted after the column headed “Doc\_Type”. This column was used to sort water rights from water right applications. A column for calculations was inserted prior to the column headed “QA\_Total” and a column headed “PurposeDesignation” was inserted just after the column headed “PURPOSE\_LI”. An AutoFilter was placed on the heading row, and sorted according to use.

An assumption was made that the primary use of a water right application would be listed first in the PURPOSE\_LI column. The general use designation (GUD) assigned to each water right was based on the first purpose of use code (PUC) listed and all subsequent PUCs were ignored. Many of the water right applications list several PUCs, which may encompass more than one GUD. PUC codes for Washington are provided in Table 4-G.

The Agriculture GUD incorporates the dairy, frost protection, irrigation and stock watering PUCs. The Commercial and Industrial GUD incorporates the cooling for industrial purposes, commercial and industrial manufacturing, highway, mining, and railway PUCs. The Domestic GUD incorporates domestic general, domestic multiple, domestic single, heat exchange, domestic municipal and recreation PUCs. The Environment and Wildlife GUD incorporates the environmental quality, fire protection, fish propagation, and wildlife propagation PUCs. The Undefined GUD incorporates rights where the primary use was not provided or an unrecognized (non-standard) PUC. Records coded for power (PO) were assumed to refer to hydropower. Because water used to generate hydropower can be used downstream for other uses, all queries were filtered to exclude water right application records coded for PO to eliminate counting the water demand twice.

After GUDs were assigned to each record, the table was sorted by water record type. The records were sorted into two categories, water rights and water right applications. Water right application records include CertChg, ChgApp, Chng/ROE, and NewApp document types.

After the data was sorted by document type, the data was sorted by water source in the column headed RCW\_CLASS. The water sources include G (ground water), S (surface water), and R (reservoir water). Because water used in reservoirs can be used downstream for other uses, the data was filtered to exclude reservoir water from all queries to eliminate counting the water demand twice.

The data was sorted for blanks in the column headed “QA\_Total”. When no  $Q_a$  (annual quantity) was reported, a  $Q_a$  was calculated in a separate column using the  $Q_i$  (instantaneous quantity) provided. An assumption was made that the  $Q_i$  would be used twenty-four hours a day every day of the year. The  $Q_i$  provided for surface water is typically reported in cubic feet per second (CFS) and the  $Q_i$  provided for ground water is typically reported in gallons per minute (GPM). The equations below were used to determine the  $Q_a$  in acre-feet per year (AFY).

For  $Q_i$  reported in CFS:

$$(Q_i) \left( \frac{0.0000229568 \text{ AF}}{1 \text{ CF}} \right) \left( \frac{60 \text{ S}}{1 \text{ Min}} \right) \left( \frac{60 \text{ Min}}{1 \text{ Hour}} \right) \left( \frac{24 \text{ Hour}}{1 \text{ Day}} \right) \left( \frac{365.25 \text{ Day}}{1 \text{ Y}} \right) = Q_a$$

Or  $Q_i$  multiplied by 724.4615.

For  $Q_i$  reported in GPM:

$$(Q_i) \left( \frac{0.0000229568 \text{ AF}}{1 \text{ G}} \right) \left( \frac{60 \text{ Min}}{1 \text{ Hour}} \right) \left( \frac{24 \text{ Hour}}{1 \text{ Day}} \right) \left( \frac{365.25 \text{ Day}}{1 \text{ Y}} \right) = Q_a$$

Or  $Q_i$  multiplied by 1.6141.

## D.2. WATER BANKS, WATER TRUSTS, AND WATER REUSE

### *Terminology*

Water Bank – A *water bank* is an institutional mechanism that facilitates the legal transfer and market exchange of surface water, groundwater, or water storage. This mechanism may be administered by any type of entity, such as private, public, or non-profit.

Water Market – The term *water market* has been used interchangeably with the term *water bank*. For purposes of consistency, the term *water bank* will be used from this point forward.

Water Held in Trust – Per the Washington State trust water legislation (RCWs 90.38 and 90.42.040) *water can be held in trust by the State* to be put to instream uses and to protect it from relinquishment. Water cannot be held in trust by any entity except the State of Washington, but *water held in trust* can be a component of, and be managed by any Water Bank (even one that is not administered by the State). The term *water trust* defines an entity that operates only to manage *water held in trust*. (A *water bank* may choose to operate a *water trust* as a subset of the larger bank.)

### *Water Banks*

Water banking can be defined as, “an institutional mechanism that facilitates the legal transfer and market exchange of various surface, groundwater, and storage elements,” (Clifford, et.al., 2004). The purposes of a water bank can be to: create a more reliable source of water, ensure future water, **promote conservation**, act as a market mechanism, resolve issues of inequity, and/or insure intrastate instream flow requirement compliance.

Water banks can be the following types:

- Institutional banks – These deal in paper water rights.
- Surface storage banks – These deal in physical water. They are generally formed around a reservoir.
- Groundwater banks – These may deal in credits or entitlements for groundwater, or may deal in physical water. Aquifer Storage and Recovery (ASR) can also operate as a groundwater bank, storing physical water in the aquifer for later use.

### Water Bank Establishment and Operation

Water banks are operated by an administrative body, which may be a private, non-profit, government, or other entity. Minimally, that body aggregates water supplies from willing sellers and facilitates the sale to buyers. The actual process of exchanging water rights depends on the specific type of bank established. Water banking is a relatively new concept in Washington State. A number of operations similar to water banking have been carried out in the State, but only one, the Yakima Basin Banking Project, has been instituted by legislation. Since water banking is new, and water issues vary between watersheds, the specifics of how an individual bank will operate are very dependent upon local needs and water issues. There are many operational decisions that must be made when the bank is established.

There are many options for the pricing of water in a water bank; the bank must decide on an approach, including fixed rates, adjusting prices, and other options. Additionally, the bank must decide how to approach forfeiture, leasing and other questions. Water banking may be done only on a stream reach by



stream reach basis, or may extend beyond into a larger watershed. Water banks may also administer water held in trust by the State, which is discussed in the section below.

In order to establish a water bank, the state should enact general authorizing legislation to create the bank. This legislation will strengthen the bank's authority and legitimacy. In addition, this policy will establish an operational framework to facilitate a flexible trading mechanism. Overall, the bank water administrator must have legal authority to execute the water banking mandate.

### ***Water Held in Trust***

Two pieces of legislation made it possible for water rights to be held in trust by the State to meet presently unmet water needs, which include needs for instream flow and fish. The first, the 1989 Yakima Basin Trust Water Rights Act (RCW 90.38), established the concept of a water trust. In 1991, RCW 90.42.040 authorized the State's water trust program, allowing that water rights may be sold, leased, or donated to a water trust managed by the State of Washington. This legislation allows that the State may acquire or hold trust water rights for instream flows, irrigation, municipal, or other beneficial uses. The water right holder designates the specific use of the trust right when it is put into trust. Water held in trust is managed by the Washington Department of Ecology (Ecology), but trust water may be a component of any water bank's operations, whether the bank is administered privately or publicly. (Examples of this are the Texas Water Bank which includes the Texas Water Trust and the Walla Walla lease bank which is operated by a non-profit called Oregon Water Trust, these are discussed below.)

RCW 90.38.010 describes waters eligible to be held as trust water rights:

*"That portion of an existing water right, constituting net water savings, that is no longer required to be diverted for beneficial uses due to the installation of a water conservation project that improves an existing system."*

*In that definition, "net water savings" means the amount of water that through hydrological analysis is determined to be conserved and usable for other purposes without impairing existing water rights, reducing the ability to deliver water, or reducing the supply of water that otherwise would have been available to other water users.*

**Therefore, only the portion of the water right that has been used consumptively, and is no longer being consumed, is eligible to be put into trust.**

Often, the benefit gained by the water right holder by placing water into the trust is that trust water is not subject to relinquishment. Water rights can be temporarily leased to the water trust for instream uses. This frees the water right holder of being forced to irrigate or relinquish their water right. Another key concept of the water trust program is that trust water retains its original priority date. (Unless the original water right is split between the trust and the original water right holder, in which case the water in the trust has an inferior priority date to the water retained by the original water right holder.)

Trust water right legislation includes the following provisions:

- All trust water rights must be placed in the State Trust Water Rights Program to be managed by the Department of Ecology and held in the name of the State of Washington. (However, this does not prohibit trust water transactions from being made within another water bank.)
- "A trust water right means any water right acquired by the state for management in the state's trust water rights program.

- A water right acquired by the state expressly conditioned to limit its use to instream purposes must be used as a trust water right in compliance with that condition.
- Trust water rights retain their priority date during the time they are held in trust and are not subject to relinquishment due to lack of use.
- Trust water rights can redirect the use of conserved water saved through state- or federally-funded conservation. The conserved water, or “net water savings” means the amount of water determined to be conserved and usable within a specified stream reach for other purposes without impairment or detriment to water rights existing at the time that a water conservation project is undertaken.
- Trust water rights must not reduce the ability to deliver, or supply water that otherwise would have been available to other existing water uses.” (Ecology, 2003, pub # 30-11-005).

Ecology requires that, in order to be put into the trust, the change in water use cannot increase the instantaneous or annual quantity of water used, the water right must be eligible to be changed, the water right must not have been abandoned or relinquished for nonuse, the source of the water cannot change, the change cannot expand the water right, the change cannot increase the consumptive use of the water, and the change cannot be contrary to public interest.

Guidelines for the state water trust program were required under 90.42.080. Initially, in 1992, the state water trust program was to apply to only eight priority WRIs. In 1993, the program was expanded to apply statewide. Many factors influence the amount of water that may be put into a water trust and transferred to other beneficial uses in any watershed. These factors are: the amount of water which has historically contributed to return flows, the amount to be salvaged water, the amount to have been used with reasonable efficiency, and other characteristics of the water right. Generally, there are two situations when water can be put into a trust, either the water right holder continues to use water, but becomes more efficient, and transfers the water made available by efficiency to the water trust, or, the water right holder permanently or temporarily stops using water and transfers this to the water trust.

Water can be put into the trust under many different agreements, including dry year lease options, temporary or permanent changes in the place or type of use of the water right, water banking managed by the state, **transfer of water conserved by a water conservation project**, or simply by gift. Ecology will consider applications to put water into trust based on an analysis of the following:

- Any plans or agreements pertinent to the water right (i.e. water conservation plan);
- Data availability and certainty of the water right;
- Benefits to the State, public, resources, and effects on third parties;
- Types of public benefits to be realized; and
- Availability of funding.

### **Water Banks in Washington**

As was stated earlier, water banking is a relatively new establishment in the United States. In the 1980s, the first programs emerged that provided functions similar to water banks, the Columbia Basin Irrigation Project and the East Columbia Basin Irrigation Project. The first significant water bank was the 2001 pilot Yakima Basin banking project, which was formed through legislation to alleviate impacts of a

drought. Some of the transfers in 2001 were targeted to increase instream flows for fish during critical periods. The program continues to address many types of transfers, including those with environmental benefits. The price structure is market driven. This program was initially formed as a means of facilitating water transfers (somewhat like a conservancy board, but with a larger advisory board). The program provided a mechanism to facilitate transfers between buyers and sellers. The special feature of this bank is its ability to provide transfers quickly (generally within 15 days), which was important in drought response.

The Salmon Creek (Okanogan) Water Lease Bank operated from 2000-2002 as a part of the Washington Water Trust. The purpose of this bank was to provide flows in Salmon Creek for summer steelhead and spring Chinook.

#### Bonneville Power Administration's Water Transaction Program

Bonneville Power Administration (BPA) is required to implement innovative methods to increase tributary flows within the Columbia River Basin. One way of doing this is by funding water right acquisition. Ecology, Washington Water Trust, and other approved organizations may submit proposals for acquisitions that meet to the goals of the Water Transaction Program to BPA for funding consideration.

#### Columbia River Initiative

Rulemaking is currently on hold for the Columbia River Initiative. If established, it is intended that it will provide:

- Guidelines for managing the Columbia River Mainstem Water Management Account (Water Account).
- An administrator for the Water Account and set priorities for allocation of water from the Water Account.
- Requirements and procedures for issuing water rights during declared droughts to augment existing interruptible rights on the Columbia River mainstem. These are rights which could be curtailed when flows drop too low.
- Requirements and procedures to secure a reliable supply of water for water rights issued on the Columbia River mainstem in 2003 as well as for pre-moratorium applications for new water rights from the Columbia River mainstem pending since 1991.
- Requirements and procedures for issuing new surface and underground or "ground water" rights from the Columbia River mainstem for applications on file with Ecology since 1992, and for any future water-right applications received by the department.

#### Water Trusts in Washington

##### Washington Water Acquisition Program

Ecology's Washington Water Acquisition Program manages water trusts for the State. This program allows water-right holders to voluntarily receive monetary compensation for allowing all or a part of their water rights to be reverted back to the state (held in "trust" by the state) for the purpose of instream flows benefiting salmon. Water rights may be sold, leased, or donated to the State through this program. The program is focused on small streams within sixteen priority watersheds: Lower Yakima, Methow, Middle

Snake, Naches, Okanogan, Upper Yakima, Walla Walla, Wenatchee, Cedar-Sammamish, Chambers-Clover, Duwamish-Green, Elwah-Dungeness, Nooksack, Puywallup-White, Quilcene-Snow, and Snohomish.

### Washington Water Trust

The Washington Water Trust is a private, non-profit organization established in 1998 that is dedicated to streamflow restoration and water quality improvement in rivers and streams in the state of Washington. The Washington Water Trust acts as an intermediary between water rights holders who want to sell, lease, or donate their water rights for instream flows and the Washington Department of Ecology. Although the Washington Water Trust operates the trust, all trust water rights that are put in to or out of the trust are overseen by the Ecology.

The Washington Water Trust focuses its acquisition on priority basins that historically supported salmon and steelhead and are feeling intense pressures from diversions. The eastern Washington priority basins are: Methow, Okanogan, Upper Yakima, Snake and Walla Walla. Further information about the Washington Water Trust can be found at [www.thewatertrust.org](http://www.thewatertrust.org).

### Water Banks in other States:

Arizona – Water banks are storage facilities only.

Idaho – Water banking has been operational in Idaho since 1932. The first authorizing legislation was in 1979 (Idaho Code 42-1761 through 1766). There is a state water bank, and five local rental pools operated by local water districts. The rental pools have a higher preference to irrigation use within local areas, which creates a disincentive for depositors to lease water for instream uses. Legislation is currently changing, and there are flexible market based policies developing for instream flow protection. All water in the Idaho banks is protected from forfeiture. If the water rights are leased, 90% is paid to the water right holder and 10% covers administration of the bank.

Oregon – Water lease banks have generally become the preferred method of addressing stream flow needs. Deschutes Water Exchange uses the Instream Leasing Program to lease water for instream flows. An annual lease counts as one year of beneficial use (so the lease is only needed once every 5 years to avoid relinquishment).

The Walla Walla Lease Bank is operated by a nonprofit organization, the Oregon Water Trust in cooperation with the Walla Walla Irrigation District and the Hudson Bay District Improvement Company. Founded in 1993 by a group with diverse water interests, this was the first water trust in the nation. Participants have been only Walla Walla Irrigation District and non-district land holders so far.

Klamath Basin Leasing Program is based on payments for land idling. Cost to USBR has been about \$74/AF and generally only low value crops (grass, hay, alfalfa) has been used.

Texas – In Texas, there is a State-run Texas Water Bank, authorized by statute. When water rights are held within the bank, they are exempt from cancellation per the Texas Water Code (Section 359.8). The Texas Water Trust is within the Water Bank. The Trust holds water rights dedicated to environmental needs.

**WASHINGTON STATE UNIVERSITY CROP FORECAST STUDY  
(WANDSCHNEIDER, ET AL., 2006)**

**Crop Production and Water Use Forecasts for the State of Washington  
Based on Econometric Estimation and Expert Opinion**

**Final Report to the Department of Ecology, Washington State  
In Partial Fulfillment of Obligations under  
Memorandum of Agreement**

October 16, 2006

Philip Wandschneider, Professor  
Jonathan Yoder, Associate Professor  
Aaron Benson, Graduate Research Assistant  
Adrienne Ohler, Graduate Research Assistant

School of Economic Sciences  
Washington State University

## **1 Introduction**

The objective of this project is to provide county and regional projections of crop production and acreage for major crops, and assessments of commodity circumstances. These projections and assessments provide input into a larger project to develop agricultural water use projections for the State of Washington's Columbia River Water Management Program (House Bill 2860, 2006). The CRWMP program establishes opportunities for managing Columbia River water to benefit both instream and diversionary water uses through new storage, conservation, and voluntary regional agreements. Priorities include finding alternatives for some agricultural groundwater users, finding water supplies for pending water rights applications, finding new supplies of water for those who hold interruptible Columbia River water rights, and meeting new municipal, domestic, industrial, and irrigation water needs. In addition to funding for a number

of short term and long-term initiatives, the legislature directed the Department of Ecology to undertake a research program into projected future needs for water.

To these ends, the Department of Ecology, through a Memorandum of Understanding (MOU) asked researchers at Washington State University to perform two complementary analyses. A survey was developed to solicit expert opinions about the future crop production and water use for major crops. In addition, an econometric forecasting model was developed and applied to USDA National Agricultural Statistics Service data on production and acreage. Each of these forecasting/assessment approaches has its own weaknesses, but because of the very different sources and type of information output, the results are complementary forecasts to be interpreted together.

## **2 Survey of stakeholders**

“One of the focuses of the Columbia River Water Management Program is stakeholder outreach and coordination with interested parties (from MOU).” The purpose of the survey is to solicit information from stakeholders about current and future agriculture prices, demand and supply and how these factors might affect future water demand. The survey work required completion of four main tasks. The first task was to identify a knowledgeable set of informants drawn from stakeholders with significant water and agriculture interest in the Columbia River Basin. The survey participants were selected to provide knowledgeable representation of their group’s viewpoint about agricultural conditions and water use. Hence, the “sample frame” was deliberate rather than random. This limits any statistical analysis. Each respondent is taken as representative of his or her “type.” Compilation of the contact list started from a list of desired stakeholder groups provided by the Washington Department of Ecology (hereafter, Ecology).



Researchers compiled a list of individuals and their contact information starting from this list and expanding to other individuals and stakeholder groups through informed contacts and the “snowball” technique of asking informant A who they would suggest talking to about topic X. An overall candidate list containing over 76 names was compiled. Of these, 51 responded to initial inquiries and were contacted by telephone, which has resulted in 14 complete interviews.

The second task was to develop a questionnaire instrument. Usually, survey instruments are developed over many versions and many months starting from focus groups and a bank of existing questions and questionnaires. In this case, time was very short, and the objective somewhat different than the usual survey. As noted above, no statistical analysis was intended or possible under the structure of the survey. The objective was to guide an informed respondent through a list of questions that were consistent and structured across informants, while leaving the answers open-ended to provide informants with utmost flexibility in responding. The resulting question format started with some basic questions about the informant’s background and connection to the stakeholder group and the role of respondent and stakeholder group in the water-agriculture nexus. Subsequent sections concerned the respondent’s beliefs about the current price-demand-supply conditions in agriculture and projected long-term agricultural demand (including specific crop and water use depending on stakeholder knowledge) for the next 5 and 20 years. The format ended with questions regarding water use and a final open opportunity for the informant to discuss “industry concerns.”

The third task was to implement the survey by telephone interviews. Seventy-six (76) stakeholders were initially contacted by phone or email. There was no response from 25 stakeholders. Fifty-one (51) potential stakeholders were contacted by phone directly. The interviewee was asked to take the survey now or set up appointment. Most set up an

appointment and were contacted at a later time. Fourteen (14) responded to the survey. Seventeen (17) redirected the interviewer to another agency or association, or declined to take the survey. Eighteen (18) did not respond to requests for an interview time. Two (2) offered to send the surveys directly to their members, who never responded. The average interview took 25 minutes. Results are summarized in the tables presented at the end of this report. There are five tables numbered 1.1 through 1.5, with most of the tables broken into two (e.g., 1.1(a) and 1.1(b)) to fit the data. The table below lists the titles and contents. Raw responses are available from Ecology in electronic format.

<b>Table Number</b>	<b>Title</b>	<b>Contents (categories)</b>
1.1(a) & 1.1(b)	Characteristics of Respondents	Respondent's: Name, Position, Organization, Count, Commodities, Mission, Interest, Experience
1.2(a) & 1.2(b)	The Current Situation, Prices and Outputs	Organization, Commodity; Mission, Interest, Prices, Factors affecting prices, Output, Factors influencing prices
1.3	Five Year Market Forecasts	Organization; Commodities; Five year forecasts for Price, demand, output; Comments, Factors
1.4(a) & 1.4(b)	Five Year Water Use Forecasts	Organization; Commodity; Mission; Water use functions; Water forecasts; Factors
1.5(a) & 1.5(b)	Twenty Year Water Use Factors; Industry Concerns	Organization; Commodities; Factors; Water use; Industry concerns

The fourth task comprises the compilation, synthesis and analysis of the results. These results are presented in the next section of the report. We also provide some comments regarding the limitations of the study and suggestions for future work.

## **Survey Results**

### **2.a Informants**

The informants comprised representatives of 5 commodity organizations (potatoes, apples, wine grapes, wheat, cattle), two government agencies ( Farm Service Administration and

USDA - Natural Resource and Conservation Service), one processing/distribution association, one irrigation district, one conservation district, one irrigators association, and at least three private agricultural firms (some informants are or were both officials in organizations and farm operators). (See tables 1.1(a) and 1.1(b), “Characteristics of Respondents,” below.)

The informant was generally a manager, owner, or other official. Three choose to answer as private citizens, while the rest answered in their official context. Most had many years of experience within their organizations, with 8 having at least 15 years experience, and two others having about 6-7 years experience. Respondents covered most of the major crops at issue, with particular individual representation of potatoes, apples, wine grapes, wheat, and cattle. While most informants represented production interests, some represented input, processing, and marketing concerns. Several were specifically interested in water and other resource use issues and many had policy interests. For most informants, water is regarded as a vital input which they are concerned to protect for continued agricultural use. Several have more direct responsibilities to use water, manage water, or help plan and direct water use.

## **2.b Current conditions**

**Potatoes.** Contracting heavily influences prices for potatoes. The Potato Commission reported that 85% of potatoes are contracted. Hence the current price should be more influenced by last year’s conditions and expectations than today’s events. Informants generally reported low current year (2005-2006 season) output of potatoes, but average prices, presumably influenced by contracts. Overall, informants reported that prices were influenced by product quality and supply conditions. Supply conditions were, in turn, primarily associated with input prices, weather, and disease. (Evidently our informants took at least

one economics class.) The potato farm informant noted that prices affected this year's output, indicating a potential cyclical ("hog cycle" or "cob-web model") effect in potato prices.

**Apples.** The Apple Commission reported that prices for apples were above average and supply was below average for the year. Major factors cited included increasing demand from the international market, the healthy reputation of the crop, and the industry's ability to produce a consistent product over 12 months. The Apple Commission reported low output this year mainly due to weather conditions, where weather conditions were not specified. Weather conditions, *water availability*, and labor availability were cited as potential output factors in any given year.

**Tree crops, general.** The two major treefruit informants represent the interests of food processors on the one hand and growers on the other (reclamation/irrigation district). Both reported that tree crop prices were below average and outputs were about average. Global market conditions were cited. The producer-associated informant cited concentrated market conditions in the industry. Informants cited weather and prices as determinants of this year's output, and included supply conditions, transportation, and regulation and competition for land from housing development as more general, typical year factors affecting output. Informant did not specify which types of regulations affected output and how.

**Wine grapes.** A wine grape grower reported that prices were average this year and that the major factor influencing prices were the prices of competitors this year and weather and general events such as 911—presumably because wine demand is influenced by consumer

state of mind. The grower stated that output (presumably for their enterprise) was above average and cited good growing conditions.

**Wheat.** The Wheat Commission informant reported that wheat prices were below average this year and cited the impact of fertilizer and fuel prices. The informant also reported average output for the year and cited weather, fuel and overseas competition as factors influencing output in any given year. In Washington, most wheat is raised on dryland farms, and so it is most affected by general climate conditions and by interaction with the main irrigated crops rather than directly by irrigation *water supply*.

**Cattle.** Two of the three cattle industry informants predicted increases in prices, demand and supply, while the cattleman's association (representing ranch cattle) anticipates stable prices and output in the face of increasing demand. Again fuel and energy prices were mentioned. Other factors included environmental regulations, market competition, and issues related to BSE, FMD and drought.

## **2.c Intermediate future conditions, five years**

**Potatoes.** The Potato Commission informant anticipates stable prices, demand and output for the intermediate future of five years. The informant sees growing population offsetting declining per capita demand. Factors affecting falling per capita demand include reduced home cooking of fresh potatoes, and increased health consciousness affecting consumption, presumably of prepared potato products such as French fries. The informant also cited changing demographics, *water availability* and pest issues as possible factors. Other informants also suggest stable conditions for potatoes. The enterprise owner points out that the fickle international market could change things.

**Apples.** The apple commission informant anticipates stable prices with an increase in demand over time. The informant cites difficulties in “maintaining prices.” Major factors believed to affect the future of the apple industry include the cost of energy, the availability of labor, and immigration policy.

**Tree crops, general.** The two informants associated with treefruits anticipate stable prices, demand and supply over the next five years. One informant noted that price is largely determined in the world market. Informants cited fuel and energy costs and transportation as significant factors. The processor noted that the lack of reliable *water supply* is a huge issue. Other factors included global competition and trade. The irrigation informant also cited concern over market concentration. Apple market concentration may refer to concentration on certain cultivars (Red Delicious) or to industrial structure, and the meaning here was not apparent from the response.

**Wine grapes.** The wine grape grower anticipates stable prices and output but increased demand. The grower noted that conditions are “unique” to each winery. The grower anticipates new entries. [We infer that prices will be stable because of new overall supply from the new growers.]

**Wheat.** The Wheat Commission informant anticipates that prices and output would decline but that demand would increase. [Assuming Washington production falls, we infer that the informant believes competitors would fill the increased demand.] The informant believes that wheat growers will see higher input prices and lower product prices. Specific factors include the 2007 farm bill, the WTO (World Trade Organization), fuel and fertilizer prices, and the nature of future conservation programs.

[Authors' Notes: Washington wheat farmers are heavily dependent on international markets and government programs. Washington wheat is mostly white/noodle wheat rather than bread wheat. According to the Wheat Commission about 85 of Washington white wheat is exported (<http://www.wawheat.com/markets.asp>). Wheat production is heavily influenced by commodity support programs. The commodity support programs are complex, but some notion of their significance can be appreciated by noting that the “direct payment rate” for wheat under the 2002 is \$.52 per bushel and that wheat direct payments have averaged \$1.1 billion under the 2002 Act according to Claasen and Morehart of the USDA’s Economic Research Service, 2006. The “direct payment” (DP) is paid to wheat farmers (subject to a participant cap) independent of current market or production conditions at:  $85\% * (DP \text{ base acreage}) * (DP \text{ payment rate}) * (DP \text{ yield}).$ ]

**Cattle.** The three informants representing the cattle industry generally anticipate increases in demand and supply with prices stable or increasing. Informants cite issues of animal safety (BSE, FMD), energy, and transportation as major factors affecting the market. The informant did not elaborate but we infer the energy and transportation had more to do with transportation costs than logistics.

**Feed grains, hay.** An irrigation informant (reclamation district) noted that there is “plenty of demand” for alfalfa but that fuel prices and transport were big issues. The cattle informant’s optimistic outlook indicates potential increases in *derived demand* for cattle feed and pasture – more demand for cattle, implies greater demand for cattle feed. Hence, a resurgence in meat demand could lead to greater demand for irrigated pastures and for feedgrains like barley.



**Other commodities, general remarks.** One repeated theme was rising energy and fuel costs.

The other side of this equation includes biofuels, perhaps plastics and other chemicals, and related opportunities for agriculture to compete with petroleum based products as their prices increase. The opportunities for new markets like bio-fuels were mentioned by only one respondent, but the rising production costs due to higher energy costs was a pervasive theme.

## **2.d Water use, intermediate future**

**Potatoes.** The Potato Commission informant projects stable water demand for potatoes. Potato production, processing and marketing depend on water at a variety of levels. Potatoes are the most valuable large-scale irrigated crop in the Columbia valley. Potatoes are different from many crops in that they cannot be grown for long in one location because of disease and pest problems. Thus, growers need water for current production, but they also need to be able to water their rotational crops and have supplies of water ready in new areas that they may seek out in response to disease problems. Also, water is used extensively in potato processing. Thus, the potato industry looks to preserve water for current uses, and to safeguard sufficient water to meet changes in land as well as market needs.

**Apples.** The Apple Commission informant projects stable demand for water for apples. Water is used in several phases of apple production and processing. In production water is used for climate/weather control purposes (frost in spring and cooling in summer) as well as for irrigation – usually solid set. Apple processing also employs significant amounts of water. The Apple Commission reports that current irrigation and weather management systems

are very efficient, but it would seem that technological changes could affect water use in apples one way or the other.

**Tree crops, general.** The food processing informant anticipates increased water use efficiency (lower use of water per unit of output) but stable overall water use. Again, note that water is used for processing as well as irrigation.

**Wine grapes.** The wine grape grower projects decreases in water use per unit of production, but increases in total water use due to increased acreages of wine grapes?. Water is used for irrigation and for processing.

**Wheat.** Only a small fraction of Washington's large wheat acreage is irrigated (about 8%). Where irrigated, wheat tends to be a rotation crop – e.g., rotated with potatoes to reduce disease and pests. The WAWG reports that wheat growers may be most concerned about general water rights for their local regional communities, or their general farm operations (whether from wells or surface water).

**Cattle.** Feedlot owners use water critically but in small amounts. Beyond the need to water the cattle, feedlots sprinkle some water for dust control. Feedlot interests are concerned about changes in regulations [we infer water pollution controls] as well as water availability. Cattle ranches use water for watering cattle as well as for secondary irrigation of pasturage and for irrigated feed crops. Some water is also used for processing. Informants suggest some interest in water to expand pasture. One informant mentioned the attorney general's

“stock watering opinion” (AGO 2005 No. 17, which concludes that exempt groundwater use for stockwatering is not subject to a 5000 gpd maximum withdrawal).

**Feed grains, hay.** Water for feed crops including hay is an important component of water usage in the Columbia basin, both on cattle ranches themselves, and on separate farm operations where feed grains, hay or silage are grown.

**Other commodities, general remarks.** Issues raised by informants included: resolution of the Columbia River salmon issues, progress in state water projects, increased use of water for municipal purposes, need to recharge aquifers, funding for conservation projects, and awareness of conservation.

## **2.e Water use, longer term, and “industry concern” comments**

**Potatoes.** The potato industry seems most concerned about long term water supplies for “new ground.” The potato industry is beset by pest and disease problems that require crop rotation and eventual movement to new ground or yields will eventually decline. Since potatoes are totally an irrigated industry in Washington, future water availability is critical.

**Apples.** The apple industry is very concerned about the stability as well as (or more so than) the general availability of water. The “short year” (i.e., where production is curtailed by water shortages) is especially painful to apples and other tree crops as damage in one year can carry over to the next (e.g., damage to trees not yet in production). The apple industry is anxious to see more water supply capacity and is anxious about the encroachment of urban areas on orchard lands. Also see tree crops.

**Tree crops, general.** Informants representing both processors and irrigation stressed the dependence of the tree crop, alfalfa and vegetable industries on irrigation water. The

irrigation district informant saw some prospects for gains from increased water use efficiency, but this was a relatively isolated comment.

**Wine grapes.** The winery representative was concerned about the continued development of new wineries without new water. At the same time, they noted wasteful use of water in some cases and they implied relatively high value in other cases [wine grapes are high-valued crops]. There was some hint that the “use it or lose it” provision should be more strictly enforced and/or that rights to “excess” water should be transferable.

**Wheat.** The Wheat Commission informant reported that their main concern was the protection of Western water law. They predicted no changes in water use patterns over the intermediate and longer future.

**Cattle.** The three informants from the cattle industry see stable uses of water over the longer term. They express concern about changes in water law and regulations and, in one case, about “activist judges.” Some expressed concern about CRWMP, but others hope that the CRWMP will “not just be a piece of paper.”

**Other commodities, general remarks.** Several of the respondents represented water and land conservation organizations. They reported that their main role was to facilitate water use conservation, and they had relatively little to say about the projections and assessment regarding crops reported in the previous pages. Themes they raised included:

- ? Current waste in irrigation because of lack of incentives to conserve
- ? Conflict over water will continue, increase

? Incentives to conservation seen as tied to funding for conservation projects as well as to existing rules/institutions.

## **2.f Synthesis, summary and comments**

- Several informants mentioned issues related to Salmon and endangered species. With some exceptions the thrust of the comments seemed to emphasize resolution of conflicts and clarification of rights as much as rivalry over amounts.
- The overall thrust of comments throughout the survey was pessimistic about future gains from increased water use efficiency, with water conservation professionals a somewhat dissenting voice. While one might expect that stakeholders who want more water are not going to volunteer that other alternatives exist, the relative lack of suggestions that there were some water use efficiencies waiting to be exploited was noteworthy.
- Water efficiency and transfer versus water supply. The issue of water “waste,” loss for lack of use, and water transfers was a minor theme at best. Most respondents were keyed to provision of new water. Many informants expressed the hope that the CRWMP would lead to new water sources.
- The role of trade, markets and global competition in determining future agriculture patterns were recurring themes from some informants.

## **2.g Future work with surveys on stakeholder assessments and perspectives**

Time and resource constraints placed limits on what could be done with the survey reported here.

Three areas of development are suggested:

- Improve survey instrument. The survey did not have time for testing and development. Therefore, the nature of responses that were elicited was contingent on a relatively “naïve” survey. While we tried to key on the main project objectives and to keep the questions open to elicit helpful responses, informants were necessarily limited to responses within the framework. Greater time and resource for instrument development are needed to develop an instrument better tuned to project goals.
- Improve survey data by conducting two types of surveys. Given project objectives, knowledge might be improved by conducting two types of surveys. The first would be face to face unstructured interviews with key informants, including people like those contacted for the present study. The chief advantage to face to face surveys is “depth.” More time with the informant, and more opportunity to probe, can result in more information per informant. An alternative to face-to-face interviews would be a series of focus groups with stakeholder groups. Group discussions can be synergistic and reveal more wisdom than individual interviews. An off-setting factor is that individual’s are sometimes inhibited in their response to some kinds of questions in the group setting.

Either the individual face-to-face or focus groups approach would complement the second method – a true scientific survey of members of the stakeholder groups. A mail, telephone, or internet scientific survey of membership lists of the different stakeholder groups would collect information about the views of typical members, and the dispersion of those views within the stakeholder group. Such a survey would be mostly “closed ended” (multiple choice and similar questions). Statistical analysis would be possible. The informant surveys and the scientific random sample surveys are compliments, not substitutes for each other. Informant surveys provide depth and

expertise at the expense of bias. Random sample surveys provide a truer picture of “typical” beliefs, knowledge, and opinions. The two are complements ideally suited for purposes of this project.

- Improve response rate by better contact and follow-up procedures and use of incentives. The present study had a low response rate. From an initial list of 72 contacts, only 14 interviews were completed. In order to increase responses, one would need the time and resources for: development of a larger contact list; formulation and implementation of a contact “approach” (e.g., through professional groups, etc.); more time for second and third contacts and other provisions of the “Dillman method” of survey implementation; and provision of appropriate incentives to informants; recalls and follow-ups (Dillman, 2000).

### **3 Econometric forecasts of acreage and production for major crops in the Columbia River Basin**

This component of the project includes a literature review of existing forecasts and forecasting methods and original econometric forecasts based on existing National Agricultural Statistics Data. Both the econometric forecasts and the survey results have weaknesses as forecast methods, and are meant to be considered together as complements for assessing future water demands from Washington State Agriculture. Extensive tables with results are available separately, in electronic format.



### **3.a Washington State and the Columbia River Basin Crop production and Data**

Appendix 3A includes a table and series of graphs of the NASS data used in this analysis. Table 2 shows the top twenty-five crops grown in the Columbia River Basin, their farm gate revenues and the percentage of total revenue represented by each crop for 2002. Data is from the USDA National Agricultural Statistics Service (NASS)– Washington. The table shows that over 95% of farm-gate revenue in the Columbia River Basin is accounted for by these twenty-five crops.

The data used in this analysis is composed of annual data series of crop production totals and harvested acreage by county as well as state-wide average yearly prices. Estimated farm-gate revenue was calculated using the production totals and the average prices for each crop and each county. We used the twenty-five counties that lie within the Columbia River Basin (see figure 1.), where possible, to develop production systems for the crops grown in that county. County-level data was not available for nine of the twenty-five crops. Data for five of these crops (apples, peaches, pears, apricots and cherries) were reported on a district level, where each district is comprised of three or four counties; in these cases the production systems were developed at the district level. For the other four crops (grapes, hops, lentils and dry peas), the analysis was conducted using a statewide production system.

Data on various input prices and exogenous variables such as rainfall and other climate-related variables, as well as full, county-level time series for the various crops would have enabled us to create structural acreage models that might be more useful in conducting this particular study. Also, data on canola and biodiesel crop related growth in Washington State simply was not readily available from the USDA data. Future research may require the use of survey data from canola and biodiesel growers associations in order to include these crops in production forecasts.

The graphs in figures (2.) – (13.) show the historic statewide trends of the twenty-five crops over the last twenty years. The crops that show a visible positive trend over the time period are silage corn, bluegrass seed, onions, peppermint, potatoes, sweet corn, cherries and grapes. The only crops that have a visible negative trend over the time period are asparagus, barley and carrots. Of the remaining crops, three had significant (at the 10% level) time trend parameters in regressions of the individual crop production against a time trend and a constant; pears and hay with a positive parameter and apricots with a negative parameter (see table 3 for results of all regressions).

There are several possibilities for further study in identifying past trends in crop production alone. One would be to conduct proper tests to determine how these data sets are actually moving over time, as opposed to simply identifying positive or negative trends. Another interesting extension of this summary could be in determining the spatial movement of these crops within the state over time. According to the 2002 UDSA Census of Agriculture, in the Columbia River Basin, there were roughly 400,000 fewer acres in agricultural production than in 1997 (or about a 3.2% decrease), but the percentage change in land in agricultural production varied quite a bit across counties in the basin, with production differences ranging between -14.6% and 22.8%.

### **3.b Vector Autoregression (VAR) analysis**

Historically, the most economically sound crop production forecasts have been based on structural production systems that determine what share of acreage is devoted to each crop by a profit-maximizing producer, based on crop prices and prices of labor and other inputs (Shumway, 1983; Moore and Negri, 1992; and Wu and Segerson, 1995). Structural economic models require data on a number of variables, which we have not been able to acquire for this

study (see the data section). The models used in these methods strictly comply with economic theory, but are sometimes described as having more strength in explanation than prediction of crop production (Allen, 1994).

Most forecasts that have been conducted using either of these methods have been short-term (usually harvest forecasts based on that year's planting data) in scope. Allen (1994) in a very comprehensive summary of economic forecasting in agriculture stated that few published long-term (multi-year) agricultural forecasts can be found in the literature. This focus of the literature on short-term forecasts is possibly due to the demand of farmers and farm-related government agencies for predictions of current-year crop yields and prices, and the historical interest of the agricultural economics literature in improving farm management practices (Just and Rauser, 1993).

Bessler (1984) introduced the concept of vector autoregression (VAR) to the agricultural forecasting literature, which differs from the structural models described above in that "identification is achieved by estimating reduced-form relationships, in which every variable in the multi-variate system is allowed to affect every other variable in the system with lags." Since then, VAR has been employed in many studies of crop yield and price forecasting and has been shown to perform very well against other methods (Allen, 1994; Dorfman and McIntosh, 1990).

### **3.c Estimation and forecasting**

Estimation of a basic, non-structural VAR without cross-equation restrictions is relatively straightforward. It amounts Ordinary least Squares applied to each of the time-series of set of variables of interest; in this case, the acreage or production of a set of crops for a series of years. Consider a hypothetical VAR for the acreage for three crops: wheat, potatoes, and apples. The

VAR then includes three regressions, one for each crop acreage. Each regression has as its dependent variable the acreage for a given crop at time  $t$ . The explanatory (right-hand-side) variables are lagged values of acreage for *all* of the crops. Each of the three equations in a VAR(2) will have two lags of each of the three crop variables (totaling 6 explanatory variables in each equation). For example, the implied wheat equation would be:

$$y_t^{wheat} = \alpha + \beta_1 y_{t-1}^{wheat} + \beta_2 y_{t-2}^{wheat} + \beta_3 y_{t-1}^{apple} + \beta_4 y_{t-2}^{apple} + \beta_5 y_{t-1}^{potato} + \beta_6 y_{t-2}^{potato}.$$

The interpretation of this structure is that the last two years of acreage for each crop is hypothesized to help explain this year's acreage for each crop, as characterized by the estimated regression equation for each. A general introduction to Vector Autoregression and forecasting is provided in Greene (2003), Chapter 19.

Ideally, a VAR would incorporate all relevant variables representing all of the crops in a county or region of interest. However, given the number of crops, this is generally not feasible or practical for estimating a stable system of equations. Therefore, a representative set of crops is chosen based on three criteria. First a large set of the most important crops (criterion 1) are included for which a reasonable number of observations exist (criterion 2).<sup>1</sup> If the set of crops satisfying criteria 1 and 2 produce a *stable* estimated system (criterion 3), then all of these crops are included. Otherwise, a subset of these crops is included until a stable VAR is found. *Stability* of a VAVR is described below.

Certain relationships between the parameters must hold for there to be a stable relationship among the variables in a VAR system of equations. If there were no such true relationship among these variables, then it would make little sense estimating a VAR such as

---

<sup>1</sup> "Importance" for estimation purposes is based on acreage, such that crops with large acreage (averaged over all available years) are more "important" than crops with small reported acreage (criterion 1). VARs can only make use of observations for which all crops have data. In a number of cases, one or more of the crops of interest is missing more observations than another important subset. In order to make the best use of the data, those crops with excessive missing data are omitted from the regressions (criterion 2).

this. This is a weak and necessary assumption to proceed, so we presume that there is an underlying stable relationship among the crops grown in the area. Even if such a stable relationship exists however, given incomplete and imperfect data as we have for this analysis, it is not uncommon to estimate a set of parameter estimates in a VAR. Stability of an estimated VAR is required in order to generate reasonable (unbiased and consistent) forecasts. Otherwise, forecasts tend to “explode” in unreasonable ways as predictions are forecasted into the future. For the county-level regressions, only rarely are stable VARs found for more than four of the important crops.

Once a stable system is identified, dynamic forecasts and confidence intervals are generated based on the estimated structure of the VAR. Estimation is carried out with the econometric software Stata (version 9.3) using the VAR Routine Details of the estimation and forecasting procedure can be found in the Stata documentation.

### **3.d Strengths and Weaknesses of VAR as a forecasting tool**

VARs represent reduced forms of more complete underlying dynamical systems. Forecasts from VARs and their estimated confidence limits in principle account for and represent the deterministic factors driving the system and the un-accounted-for random elements in the system such as weather and market shocks. Because VARs in this form necessarily rely on historic patterns, future weather and market patterns that are “new” in the sense that they deviate from historic patterns lead to failure in forecasting. Furthermore, because VARs rely on historical data only, these forecasting models cannot account for changes in the structure of crop production and markets beyond the range of existing data. For example, although the data and therefore forecasting models implicitly incorporate technological changes in production and the

characteristics of markets during the sample period, the forecasts cannot account for future patterns of technology and market change that differ from the sample period.

### **3.e Summary of results**

Data for some crops are available at the county level, some only at the district level and some are available only at the state level. The lowest possible level of aggregation is used for estimation of each crop, but these data were then aggregated for use in regressions with the more highly aggregated data. That is, crops available at the county level were used for county level estimation, but were also aggregated for use in the district and state level regressions. Similarly, district level regressions were estimated, but district level data were also aggregated to the state level for use in the state-level regressions.

County level regressions are based on crop acreage, because the use of crop acreage facilitates estimates of associated water use. However, no acreage data were available (given the time constraints for this report) for district or state-level data from NASS. Therefore, the district and state level regressions use production data rather than acreage data.

Due to the large amount of output, the specific regression results will not be discussed here, and are presented in Excel files accompanying this report. A brief guide to interpretation of these results is presented Appendix B.

### **3.f Recommendations for Future Modeling Work**

The VAR framework and the data above have some weaknesses that could be addressed with additional time and resources. First, due primarily time constraints, there is very little structure imposed on the autoregression processes and forecasts for both acreage and crop production. In

particular, efficiency and credibility of forecasts may be gained by constraining the sum of acreage to be limited to some reasonable total. The analysis presented here imposes no such structure. Similarly, the VAR in this form does not restrict forecasts or their confidence intervals to be non-negative. One way this could be imposed is to apply logarithmic transformations to the data before estimation (and appropriate retransformation for forecasts) to ensure non-negativity. Also, the VAR models used are equivalent to reduced-forms of dynamic structural models. Characterizing a complete structural model and imposing the restrictions of that model might increase predictive efficiency.

Finally, the number of variables included in each VAR was small. It may be helpful in the future, with additional observations and more structure on the model, to attempt to include a broader set of data in the VARs, including price data and input cost indeces



## 4 References

- Allen, P. G. (1994). Economic forecasting in agriculture. *International Journal of Forecasting*, 10, 81–135.
- Bessler, D. A. (1984). An analysis of dynamic economic relationships: an application to the U.S. hog market. *Canadian Journal of Agricultural Economics*, 32, 109–124.
- Claasen, R. and M Morehart. (2006). “Greening Income Support and Supporting Green,” Economic Brief Number 1, USDA Economic Research Service, (March)
- Dillman, , D.A. (2000). *Mail and Internet Surveys: the Tailored Design Method*. NY: John Wiley & Sons
- Dorfman, J. H., & C. S. McIntosh (1990). Results of a price forecasting competition. *American Journal of Agricultural Economics*, 72, 804–808.
- Greene, William. 2003. *Econometric Analysis*. 5<sup>th</sup> Edition. Prentice Hall, Upper Saddle River, New Jersey.
- Just, R. E., & G. C. Rauser (1993). The governance structure of agricultural science and agricultural economics: A call to arms. *American Journal of Agricultural Economics*, 75 (October), 69–83.
- Moore, M., & D. Negri (1992). A multicrop production model of irrigated agriculture applied to water allocation policy of the bureau of reclamation. *Journal of Agricultural and Resource Economics*, 17(1), 29–43.
- Shumway, C. R. (1983). Supply, demand, and technology in a multiproduct industry: Texas field crops. *American Journal of Agricultural Economics*, 65, 748–760.

Wu, J., & K. Segerson (1995). The impact of policies and land characteristics on potential groundwater pollution in Wisconsin. *American Journal of Agricultural Economics*, 77(4), 1033–104

## 5 Appendix 1. CRWMG Survey Results

TABLE 1.1(a): Description of Respondents

	Respondent's Name	Position	Name of Organization	City/ County	Primary Commods	Other Agric. Commods.	Ag and water mg/mt mission	Primary interest	Experience, organization	Experience, position
1	Ron Hull	District Manager	Washington State Farm Service Agency	Grant	all		To help private land owners conserve soil and water. And be more productive	input supply	1.5 years	1.5
2	R.L. "Gus" Hughbanks & Frank Easter	State conservationist & state resource conservationist	USDA-NRCS- Washington State Office		non- specific		Provides assistance to farmers and landowner, who want to improve... mission statement.. Helping people help the land... don't control land... help apply conservation practices		25 +	5 years, 7 years
3	Chris Voigt	Exec Director	Washington State Potato Commission		potatoes	Other rotational crops. Wheat corn alfalfa	Monitor the water situation, and preserve water for the farmers	all of the above	1 year	1 year
4	Darcy Fugman-Small	owner and general manager	Woodward canyon		wine grapes	potatoes and tomatoes	Sustainable approach growing crops	growing, production, retail and wholesale internationally and domestically	since 2000	since 2000
5	Gretchen Borck	Dir. Issues & Organization	Washington Association of Wheat Growers	Ritzville	wheat	barley	To keep them farming, provide food, 90% membership is dryland farming, some with deep wells or irrigate. Don't need irrigation to grow. How will CWM System affect western water law and current water rights?	prod, export, lobbying	15 years	15 years
6	Dave Carlson	President	Washington Apple Commission	Wenatchee	apples	some joint work with cherries and pears	Promotion of apples in the export market, water is essential	marketing intn	7 years	3.5
7	Citizen A	Owner	Farm enterprise		potatoes & asparagus		use water to grow crops	require water from basin apply to ground and crops and try to be as efficient as possible with high yield	32 years	15

TABLE 1.1(b): Description of Respondents (cont)

	Respondent's Name	Position	Name of Organization	City/ county	Primary Commodities	Other Agric. Commodities	Ag and water mg'mt mission	Primary interest	Experience, organization	Experience position
8	Citizen B	Staff	Cattle Feeders	Grant	cattle, corn, alfalfa, barley	wheat, potatoes waste	mission is to impact positively the profitability of feed lots, inputs of feed stuff (cost), anything that affects the viability of those feed stuffs	Int'l marketing, production,	operator for 30 years	9 months
9	Daryl Olsen	Board Rep	Columbia Snake River Irrigators Assoc.	Kennewick	all irrigated crops		water management	water management	16 yrs	16 yrs
10	Craig smith	vice president	Northwest Food Processor's Council	Portland, OR	Process 39 different, fruits & veg. In Columbia basin, potatoes & sweet corn	anything processed	Mission is to be a resource for the members to be more competitive in the global market place, primary interest is raw product availability, water to be predictable and dependable.	all activities, but primary is regulatory & policy issues	21 years	15
11	Jerry Barnes	Manager of Irrigation District	Whitestone Reclamation District	Okangan	tree fruits and alfalfa		gather and store water when it's available and distributed to various farms	input supply,	19 years	17 years
12	Citizen C	Member, former officer	Cattlemen's Association	Franklin	cattle, wheat hay, corn, potatoes	inputs for livestock industry, feed grains, potatoes, veg processors	can't find a better environmentalist than a rancher	production	rancher, irrigator farmer, dryland 3rd generation	
13	Michael Tobin	NYCD manager	North Yakima Conservation District	Yakima	don't support one commodity over another – "Would like all \$200 million"		Providing technical & financial assistance for conservation and waterish one of them, and meet the need of resource users (mostly farmers) - very much like other conservation districts. Help private landowners conserve water technically & financially.	other- salmon recovery, primarily assisting landowners in compliance, & water quality TMDL total max daily load	17 years	11 year
14	Jack Fields	Exec. VP	Washington Cattlemen's Association		cattlemen, cattle and livestock,	variety of cropping , dryland wheat & irrigated crops	to protect and preserve members property and water rights, and fight to ensure they are upheld, that individuals are able to utilize them, and that dept. of ecology follows their edict of the water right. Don't want water rights to change.	all... production, input, day to day cattle operations, regulations, marketing domestic & int'l, ensuring property rights,	25 months	25 months

TABLE 1.2(a): The Current Situation, Prices and Outputs

	Name of Organization	Commodity	Ag and water mg/mt mission	Primary interest	Prices	major factors affecting price		Output	factors influencing output	
					This year	this year	any give year	This year	This year	Any given year
1	Washington State Farm Service Agency - Grant	all	help private land owners conserve soil and water and be more productive	help find money to implement water conservation programs	N/A	Generally the prices are weak and not responding to the increased costs, increase in fuel & fert.		below average	lost funding for conservation, typically federally funds which were lost	
2	USDA-NRCS- Washington State Office	all	provides assistance to farmers and landowner, who want to improve/ apply conservation practices	deal with water quantity and quality; technical assistance for irrigation designs; farm bill programs		pay incentives to water management				
3	Washington State Potato Commission	Pots.	monitor the water situation and preserve water for the farmers,	policy advisor on potatoes & water, voice for potato industry regarding water issue	average	85% is contracted, price takers, growers negotiated the best prices they could get from processors	supply, over supply or poor quality	below average	weather	water supply, pest outbreaks
4	Woodward canyon	wine grapes	Sustainable approach growing crops	management	average	price of competitors	catastrophic events such as 911, bad growing season	above average	more fruit, good growing conditions	economy as whole
5	Washington Association of Wheat Growers	wheat	To keep them farming, provide food; dryland farming; some with deep wells or irrigate.	Work at pleasure of members and BOD, on issues of prod.	below average	cost of fuel and fertilizer	markets overseas	average	fert. Fuel, mother nature, too wet too cold to hot too fast	fuel, fert. And oversea competition
6	Washington Apple Commission	apples	promotion of apples exports	export promotion programs; political, industry awareness of environ issues	above average	increased export demand, health & nutrition gov'n & marketing, domestic & oversea, enhanced ability to deliver a consistently good eating experience 12 months of year	supply, foreign competition, energy prices, cost of transport	below average	weather, hail storms,	spring frost, labor availability, adequate water supply for irrigation, lesser is proper pollination weather during bloom time
7	Farm enterprise	Pots. & aspr'gs	use water to grow crops	manager of the farm, overall decisions	above average	undersupply in Washington, and undersupply in US	supply, cost inputs	below average	prices	push higher next year

TABLE 1.2(b): The Current Situation, Prices and Outputs (cont)

					Prices	major factors affecting price		Output	factors influencing output	
	Name of Organization	Commodity	Ag and water mg'mt mission	Primary interest	this year	this year	any give year	This year	This year	any given year
8	Cattle Feeders	cattle, corn alfalfa, barley	to improve profitability of feed lots	attend meetings and committees and DOE, lobbying for cattle feeders, what's going on legislative wise, stay involved	below average	live cattle is down, replacement cattle is up(input),	trade, availability for foreign markets, drought (reduces price by dumping)	ave	lack of foreign market, Japan Korea, neg. And some markets in china, positively some markets	rate of exchange of currency with CA and Mexico, not as beneficial to send cattle this direction
9	Columbia Snake River Irrigators Assoc.	all irrigated crops	water management	manage, admin, technical and legal services	above average	world markets	regulation	below ave	climate	regulation
10	Northwest Food Processor's Council	Process 39, fruits & veg. In Columbia basin, potatoes & sweet corn	Help members be more competitive in the global markets, primary interest is raw product availability, water to be predictable and dependable.	more involved in policy	below average	market conditions, global comp	water supply weather, gov'r'n policy	Ave	prices,	raw product availability, govern'n regulation, trans availability
11	Whitestone Reclamation District	tree fruits and alfalfa	gather and store water when it's available and distributed to various farms	make sure that the mission of the district, is accomplished, gather & store water	below average	tree fruits, low compared to past & current costs, imports & oversupply, concentration of marketing	weather conditions here and competitive areas	Ave	weather damage	treefruit - competition from housing development
12	Cattlemen's Association	cattle, wheat hay, corn, potatoes	can't find a better environmentalist than a rancher	actively involved, do it every day, conserve where they can	average	educating the consumer that beef is good to eat, promotional campaign is reason why markets are so good	supply and demand, number of cattle available, processors available, Boise plant closed	ave	weather, feed availability, range conditions good, some drought	weather, spring rains & feed conditions, freight to haul cattle, paying high prices for fuel for trucks
13	North Yakima Conservation District	don't support one commodity over another - Would like all \$200 million	Help private landowners conserve water technically & financially.	immensely intertwined						
14	Washington Cattleman's Association	cattlemen, cattle and livestock,	Protect and preserve members' property/ water rights; and that dept. of ecology follows their edict of the water right.	Represent members in Olympia on water rights issues, stock water, instream use, and water right related issue. With DOE on water quality issue. Liaison btw cattleman and DOE, regulation.	above average	higher costs are offset by massive input costs, fuel & fert, cattle on feed, supply from feeder cattle from Canada, availability for export markets for US products, domestic demand	Weather, drought, heat,	ave	haven't seen numbers yet from market, weather, precipitation and heat, access to water	availability of forage, predation, price, depending on markets becoming depressed, markets increase than people will retain animals, weather mostly, breakup of irrigated and non irrigated pastures, having workable land base and access

TABLE 1.3: Five Year Market Forecasts

	Name of Organization	Commodities	5 year prices	5 year demand	5 year output	comments 5	any factors affecting demand, production - 5 year
1	Washington State Farm Service Agency - Grant	all	increase	increase	increase		greater demand for increased savings from water management, greater demand to conserve more water, ag and farmer standpoint
2	USDA-NRCS- Washington State Office	non specific					
3	Washington State Potato Commission	potatoes	stable	stable	stable	Demand is going down, pop growth is going up.	changing demographics, baby boomers retiring, consumers aren't cooking as much, consumers are more health conscious, more nutrition awareness, prod-rising input cost, water availability, pest outbreaks, price - matching supply * demand
4	Woodward canyon	wine grapes	stable	increase	stable	it is unique to each individual winery, there will be new companies entering market	
5	Washington Association of Wheat Growers	wheat	decrease	increase	decrease	input price increase, output price decrease	2007 farm bill, WTO, fuel & fert, conservation programs
6	Washington Apple Commission	apples	stable		increase	hard to maintain prices in future	cost of energy, labor immigration issue & influence on labor availability
7	Alford Farms	pots & asp'rgs	stable	stable	stable	for the most part stable, but hard to predict, currency is weaker, this allows us to export, but he believes that will equilibrate over time	
8	Cattle Feeders	cattle, corn alfalfa, barley	increase	increase	increase	anticipating open more markets	outbreak of , borders closing BSE, FMD, ability to export, drought, climatic conditions, regulations
9	Columbia Snake River Irrigators Assoc.	all irrigated crops				stable slightly increasing	bio-fuels
10	Northwest Food Processor's Council	Process 39, fruits & veg. In Columbia basin, potatoes & sweet corn	stable	stable		represent different commodities, demand related to CRWMP, price determined by world market	water huge issue b/c it affects raw product availability & the economics of growing food, energy costs, the availability of trans rail *truck,, export market & global comp.



	Name of Organization	Commodities	5 year prices	5 year demand	5 year output	comments 5	any factors affecting demand, production - 5 year
11	Whitestone Reclamation District	tree fruits & alfalfa	stable	stable	stable		tree fruit - continued concentration of marketers, imports, and weather heat and moisture, alfalfa - mostly weather, plenty of demand and marketing no problem, fuel prices for both especially to get to market, further away from consumers,
12	Cattlemen's Association	cattle, wheat, hay, corn, potatoes	increase	increase	increase		animal health & food safety, leader in their industry, WA is in the for front
13	North Yakima Conservation District	All... Would like all \$200 million					
14	Washington Cattleman's Association	cattlemen, cattle and livestock,	stable	increase	stable	peaks and valleys	environmental regulations on production, demand is much tougher (consumer preference), ability to market products competitive, limiting factors on production, cost of production fuel & fert increase people will have to cover those costs or reduce prod.

TABLE 1.4(a): Five Year Water Use Forecasts

	Name of Organization	Commodities	Mission wrt ag and water resource mg'mt	Water use type and function question	water use 5 year	total water use 5 year	factors affecting total water use
1	Washington State Farm Service Agency - Grant	all	purpose to help private land owners conserve soil and water. And be more productive	Irrigating and farm crops, majority of users use sprinkler, trying to help them conserve that use, or figure out other technologies to use & be more efficient	decrease	decrease	main area C Irrigation project, if funding available, better technology and water management could be in place. No incentive to use it unless funding is available to help them conserve,
2	USDA-NRCS-Washington State Office	non- specific	provides assistance to farmers and landowner, who want to improve... mission statement.. Helping people help the land... don't control land... help apply conservation practices	provide assistance to those who do use water, big impact on irrigation management, how it is handle to get it to the field, help once it gets to the field, help farmer with design and irrigation system and application, how farmer manages system, most of c			urban * domestic will increase dramatically, efficiency improve in irrigation, depends on success of Project... always going to see increased need & comp. either from ag or industrial or fish or to recharge aquifers, overall the future increased need for water
3	Washington State Potato Commission	potatoes	monitor the water situation, and preserve water for the farmers,	Production growing potatoes, & potato processing	stable	stable	funding for conservation projects,
4	Woodward canyon	wine grapes	Sustainable approach growing crops	irrigation of plants, used during production, rinsing barrels and washing things	decrease	increase	more wineries, a lot more awareness about conservation, Walla Walla wine allowance (conservation)
5	Washington Association of Wheat Growers	wheat	to keep them farming, provide food, 90% membership is dryland farming, some with deep wells or irrigate. Don't need irrigation to grow . How will CWM System affect western water law and current water rights?	small fraction of industry, dryland wheat farmers, 2.3 million acres in prod ~8% in irrigation, concerned about water rights because rural cities are on junior water rights,		stable	change of water rights, and water law, affecting the rural municipalities
6	Washington Apple Commission	apples	promotion of apples in the export market, water is essential	primarily, through some form of solid set irrigation system, trickle or micro sprinkler, or normal under over tree, ... pumped irrigation cost... used for frost protection in spring, and irrigation of plant and climate control during summer time... modern methods	stable	stable	very little waste, irrigation delivery some work, but technology is very efficient... competition for water and water rights with urbanization and developments that may limit the usage... lack of addition reservoirs... snow pack
7	Alford Farms	potatoes & asparagus	use water to grow crops	irrigation of crops, a little bit of hydro cooling, maybe some prevention of erosion, but minimal to irrigation	decrease	stable	

TABLE 1.4(b): Five Year Water Use Forecasts (cont)

	Name of Organization	Commodities	Mission wrt ag and water resource mg/mt	Water use type and function question	Unit water use	Total water use	factors affecting total water use
8	Cattle Feeders	cattle, corn alfalfa, barley	mission is to impact positively the profitability of feed lots, inputs of feed stuff (cost), anything that affects the viability of those feed stuffs	feedlot - only for watering the cattle. Open air. Some sprinkling for dust control	stable	increase	change in regulation, water availability, livestock watering
9	Columbia Snake River Irrigators Assoc.	all irrigated crops	water management	through irrigation	decrease	stable	regulation
10	Northwest Food Processor's Council	Process 39, fruits & veg. In Columbia basin, potatoes & sweet corn	mission is to be a resource for the members to be more competitive in the global market place, primary interest is raw product availability, water to be predictable and dependable.	agricultural irrigation to grow raw products, processing plants use water to wash and process crops grown in region	decrease	stable	resolution of the CR salmon issue, how success the state is at implement new water projects
11	Whitestone Reclamation District	tree fruits and alfalfa	gather and store water when it's available and distributed to various farms	99% of the water used in their area is used through sprinkler irrigation, varies with the crop, tree fruit requires more water at different times, increasing in cherries, apples are consistent, demand for water in early spring for frost control, and cooling	stable	stable	political change, lot of talk about storage, housing not much difference in use, most household use should be the same as it is for farming, no big changes
12	Cattlemen's Association	cattle, wheat hay, corn, potatoes	can't find a better environmentalist than a rancher	primarily used for drinking and watering livestock, irrigated pastures, cooling water for feedlots	stable	stable	use about 2% water in Columbia river, activist judges in the legal system
13	North Yakima Conservation District	All... Would like all \$200 million	providing technical & financial assistance for conservation and water is one of them, and meet the need of resource users (mostly farmers) - very much like other conservation districts. Help private landowners conserve water technically & financially.	Orchard, row crops, hay or pasture, top three in districts, fourth urban interface (yards and split irrigation districts)			steady to increasing - population, industry, competing needs and ag industry has it now and other interests will be competing
14	Washington Cattleman's Association	cattlemen, cattle and livestock,	to protect and preserve members property and water rights, and fight to ensure they are upheld, that individuals are able to utilize them, and that dept. of ecology follows their edict of the water right. Don't want water rights to change.	Stock watering purposed, ground and surface, secondary irrigation of pasture lands ground & surface water sources, secondary to produce crops hay corn barley to feed animals, processing facilities - groundwater, production cow,calf1) stock 2) irrigation,	increase	increase	hope to have a healthy industry that will grow... expand irrigation... per unit, per head, stock watering opinion with attorney general, overall to inability to obtain new water rights to get access to expand forage production

TABLE 1.5(a) Twenty Year Water Use Factors and Industry Concerns

Name of Organization	Water use					Industry concerns
	factors affecting total water use	per unit	total use	factors total water use -- 20 years	decision makers	
1 WA State Farm Service Agency - Grant	main area C Irrigation project, if funding available, better technology and water management could be in place. No incentive to use it unless funding is available to help them conserve,			get funding then stable to decreasing	irrigation use - irrigators,	the state of our water use, goes back to the way the Columbia project is set up. A lot of waste because there is no incentive to conserve b/c of how it is allotted to each farmer, fees are a little goofy, pay for water whether See column comments 20
2 USDA-NRCS-Washington State Office	urban * domestic will increase dramatically, efficiency improve in irrigation, depends on success of Project... always going to see increased need & comp. either from ag or industrial or fish or to recharge aquifers, overall the future increased need for water			5 year factor - urbanization, suburbanization, significant changes in water use T&E species (water for salmon), issues on snake river dams, climate change, industrial use, isn't going to happen large expansion of irrigation for ag places,	Individual farmers on on-farm use based on crop and yield goals... cities impact water use from state... considerable amount of water use for T&E species... state stake in water use as do tribes... Bureau of Rec. has decision making authority, See comments	Official position, not much on CRWMP... ready and eager to help individual farmers and ranchers manage water available to them, ready to provide financial assistance to help conserve
3 WA State Potato Commission	funding for conservation projects,	Incr	Incr	would like to increase with continuing demand, ... the whole endangered species act, one court case away from shutting down, wont know what water situation will be like	Prod - the farmers, Processors- the processors	Priority is to maintain what we have, need to look to the future, good to potato to newer ground, no water to develop new ground, potato prod will decrease due to pests in ground unless have new ground
4 Woodward canyon	more wineries, a lot more awareness about conservation, Walla Walla wine allowance (conservation)	Decr	Incr	education, more wineries, no new water rights,	vinyards "manager" winery "wine maker)	use it or lose it clause has been taken care of (if you have water right, you have to use it, or you will lose it." Farmers will spray dry fields. Very wasteful. If that has been care of, excess water rights should be spread "transferable".
5 WA Assoc. of Wheat Growers	change of water rights, and water law, affecting the rural municipalities		Stabl	change of water rights, and water law, affecting the rural municipalities	members, and growers	want to protect western water law
6 Washington Apple Commission	very little waste, irrigation delivery some work, but technology is very efficient... competition for water and water rights with urbanization and developments that may limit the usage... lack of addition reservoirs... snow pack	stabl e	stabl	small increase or decrease... if acreage remains stable... population and demand may contribute to increased	farms -farm operator, packing & storage facilities,	not able to stretch water on a short year.. Can't make water in legislation... need to look at increasing reservoir capacity where it makes the most sense... large influx of urbanization need to be address
7 Alford Farms		Decr	Decr	improved water delivery systems	department of ecology, (US bureau of reclamation), irrigation boards, water companies, municipalities	The biggest negative: inflexibility of the state government and water law (use or lose), more concern to conserve, conservancy board to be able to transfer" carrot and stick (a reason to conserve water) no incentive to conserve

TABLE 1.5(b) Twenty Year Water Use Factors and Industry Concerns (cont)

	Name of Organization	Commodities	factors affecting total water use	Water use per unit	total use	factors total water 20 years	decision makers	Industry concerns
8	Cattle Feeders	cattle, corn alfalfa, barley	change in regulation, water availability, livestock watering	stable	stable	same as above	feed lot operations	
9	Columbia Snake River Irrigators Assoc.	all irrigated crops	Regulation	Decr	stable	to slight increase, efficiencies	state controls all permits	objective is to issue new water rights
10	Northwest Food Processor's Council	Process 39, fruits & veg. In Columbia basin, potatoes & sweet corn	resolution of the CR salmon issue, how success the state is at implement new water projects	Decr	stable	ability to deal with global comp, or success of CRWMP	How much to use and how to use 1) farm level - farm operator ... grower, & processor, who has no control over grower, but can control amount used in plant.	absolute dependant on water supply, future of indust. Depend on how we decide to allocate water in the future, strong supports of CRWMP, "if off-stream storage and other aspects of the CRWMP are not implemented our industry will not thrive in the future,
11	Whitestone Reclamation District	tree fruits and alfalfa	political change, lot of talk about storage, housing not much difference in use, most household use should be the same as it is for farming, no big changes	stable	stable	technical advancements that may get more efficient water to the plant, and above	the board members set it here locally, some guidance from the bureau of rec., farmers last	storage, with the benefits of going elsewhere, concerned about that,
12	Cattlemen's Association	cattle, wheat hay, corn, potatoes	use about 2% water in Columbia river, activist judges in the legal system	stable	stable	changes in water law, if forced to make prod.	each individual/cattle owner, we were here first	not pleased with all aspects of CRWMP, don't acknowledge there is plenty of water in that river, how many fish do we need?, how much water does a fish need?
13	North Yakima Conservation District	All... Would like all \$200 million	steady to increasing - population, industry, competing needs and ag industry has it now and other interests will be competing			continue to increase - competing factors, endangered species act, water quality regulation, ground water depletion, infrastructure failure, failure in storage reservoirs, carry over capacity was limited, technology and equipment to deliver water more efficiency	irrigation districts have a huge say, junior water right holders, Yakima nation, bureau of reclamation b/c of storage aspect	if I had money, I know what to take care of. Everyone will fight over very little money. Resources suffer and those how depend on the resources suffer. Rely on to work with private entities.
14	Washington Cattleman's Association	cattlemen, cattle and livestock,	hope to have a healthy industry that will grow... expand irrigation... per unit, per head, stock watering opinion with attorney general, overall to inability to obtain new water rights to get access to expand forage production	stable	stable	to increasing at a conservative rate, WA is cattle poor state in total number...	Membership is decision maker in stock water use surface & ground water... water right holders for farm or ranch for crop land irrigation... membership is responsible	hope that state of industry is quite well, want to see industry grow and prosper in the future, key that this legislation will work, have opportunity to secure water rights that are actually worth something, not just a piece of paper

## 6 Appendix 2 A: Tables and figures of NASS data

Commodity	Columbia Basin Revenue (\$1000)	Percentage of Basin Total
Apples	973845	28.94
Potatoes	492307	14.63
Wheat	491765	14.61
Hay	330551	9.82
Cherries	136373	4.05
Grapes	133259	3.96
Pears	110495	3.28
Onions	110208	3.27
Hops	83288	2.47
Sweet Corn	63474	1.89
Barley	47259	1.40
Asparagus	44911	1.33
Corn for Grain	37772	1.12
Peppermint	26880	0.80
Corn for Silage	26520	0.79
Bluegrass Seed	17550	0.52
Lentils	17024	0.51
Alfalfa Seed	14280	0.42
Dry Peas	13452	0.40
Spearmint	13294	0.40
Peaches	12626	0.38
Dry Beans	11423	0.34
Green Peas	11040	0.33
Carrots	7857	0.23
Apricots	5323	0.16
Total	3232776	96.06

Table 2. Top 25 Columbia River Basin Crops by Revenue, 2002 data.

Crop	Time Trend Coefficient	t-value	p-value	95% Confidence Interval	
Alfalfa	-724.1053	-0.83	0.421	-2575.453	1127.242
Asparagus	-12297.21	-2.88	0.011	-21354.02	-3240.409
Barley	-1477693	-5.38	0	-2047148	-908238.8
Carrots	-5658.485	-2.16	0.063	-11701.95	384.9821
Grain corn	-38515.04	-0.3	0.77	-311454.6	234424.5
Silage corn	23737.83	5.31	0	14470.23	33005.43
Dry beans	-428.8538	-0.09	0.929	-10299.53	9441.82
Green peas	269.7317	0.43	0.671	-1053.048	1592.511
Hay	38069.92	7.29	0	27091.83	49048.02
Bluegrass	11037.2	7.34	0	7876.591	14197.81
Onions	544460.7	14.7	0	464471.6	624449.8
Peppermint	91650.88	4.94	0	52502.99	130798.8
Potatoes	2205141	10.85	0	1781235	2629047
Spearmint	-773.6842	-0.05	0.959	-31979.86	30432.49
Sweet corn	31031.41	9.03	0	23662.69	38400.13
Wheat	194757.2	0.23	0.817	-1539767	1929281
Grapes	6563.391	4.35	0	3437.771	9689.012
Hops	6.451739	0.03	0.979	-499.4923	512.3958
Dry peas	-14349.8	-0.98	0.34	-44924.57	16224.96
Lentils	5234.348	0.62	0.542	-12269.18	22737.88
Cherries	3.770549	4.14	0.001	1.785751	5.755348
Pears	5.748571	2.27	0.043	0.2282695	11.26887
Peaches	-0.0404396	-0.11	0.917	-0.8671201	0.7862409
Apricots	-0.1649451	-2.03	0.065	-0.3416108	0.0117207
Apples	16.81429	0.93	0.371	-22.64275	56.27132

Table 3. Results of 25 regressions of crops on a time trend and a constant. Note that estimates of constant parameters are not reported.





Figure 1. Counties in the Columbia River Basin

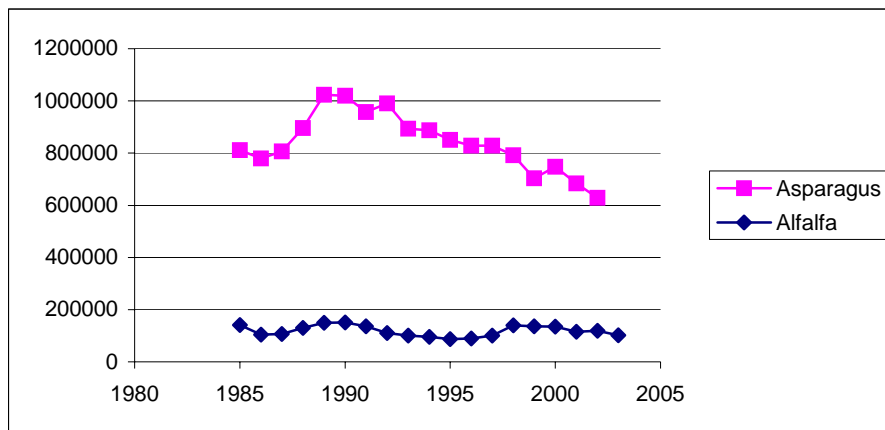


Figure 2. Production of asparagus (Cwt) and alfalfa (Cwt)

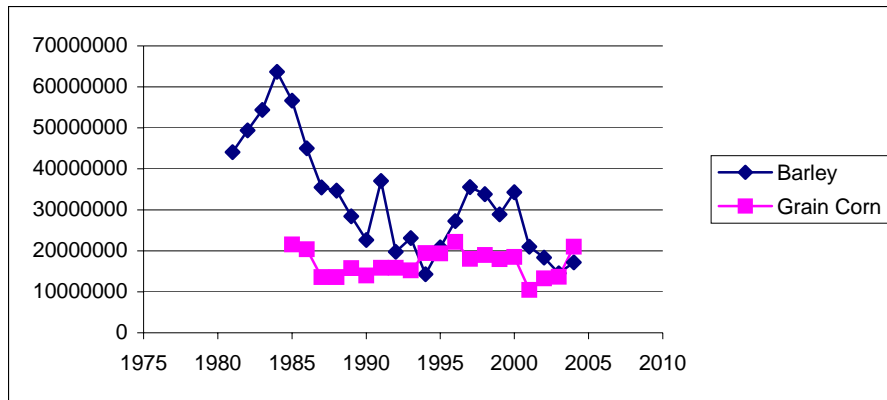


Figure 3. Barley and grain corn production (Bu).

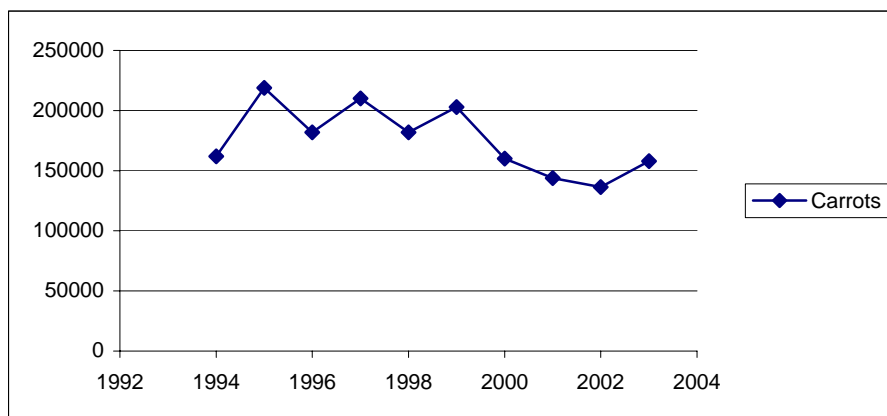


Figure 4. Carrot production (Cwt).

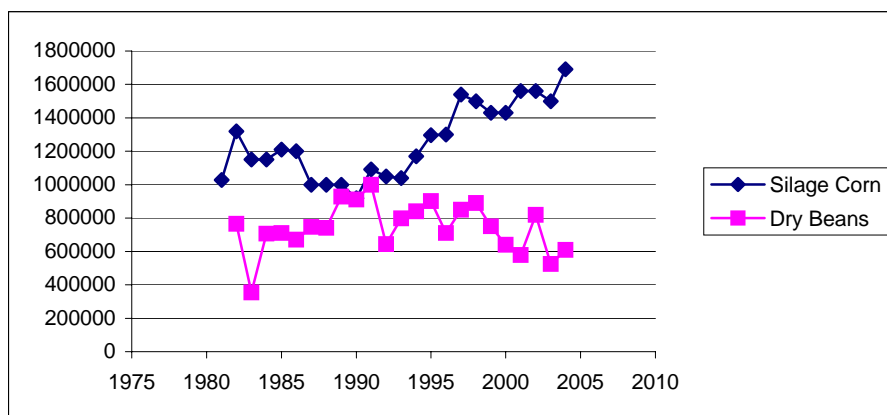


Figure 5. Silage corn (tons) and dry bean (Cwt) production.

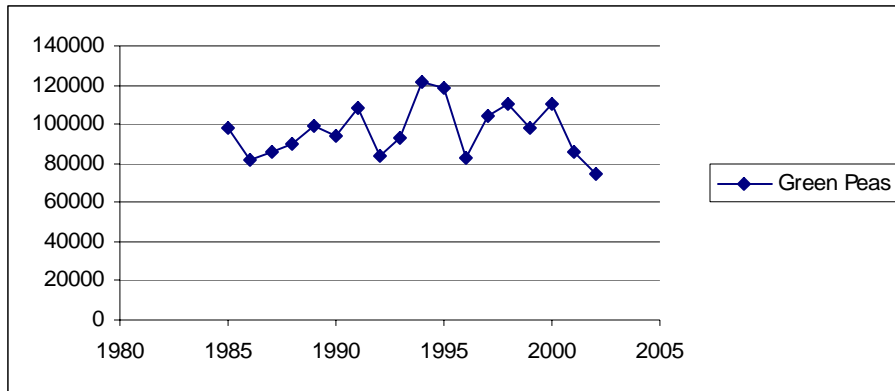


Figure 6. Green pea production (tons)

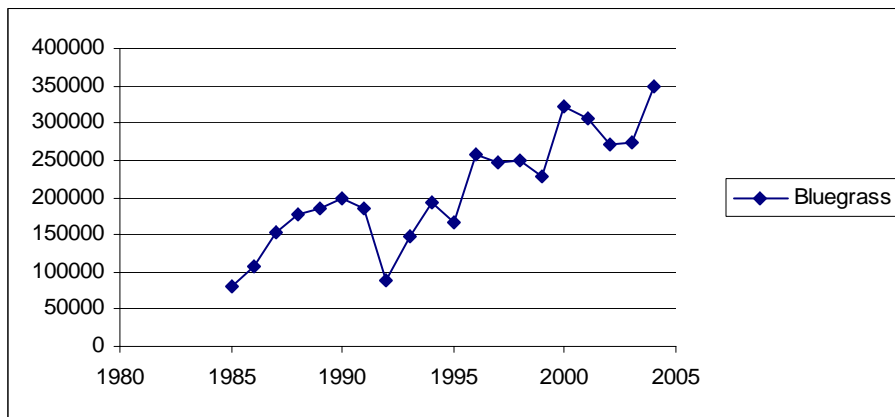


Figure 7. Bluegrass seed production (Cwt).

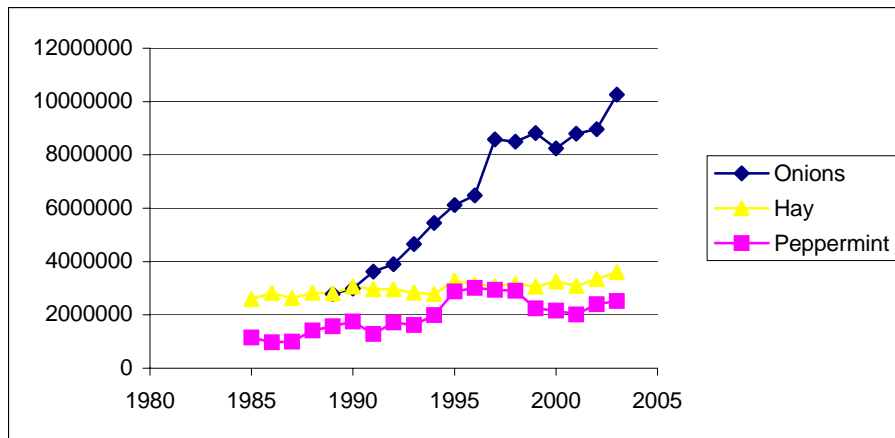


Figure 8. Onion (Cwt), hay (tons), and peppermint (Lbs) production.

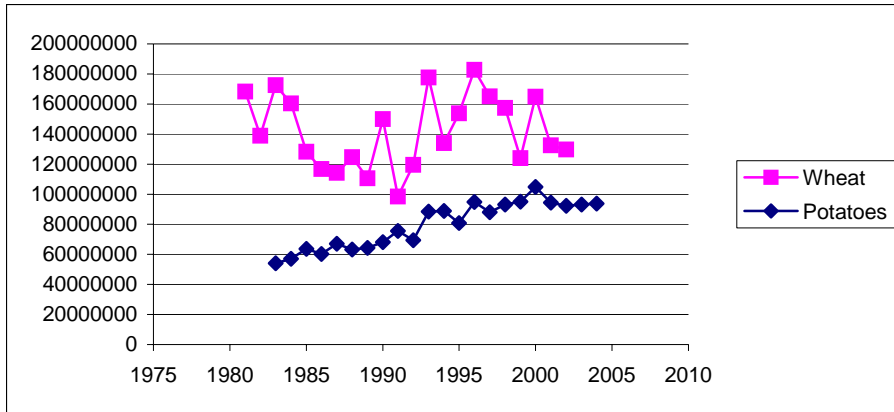


Figure 9. Wheat (Bu) and potato (Cwt) production.

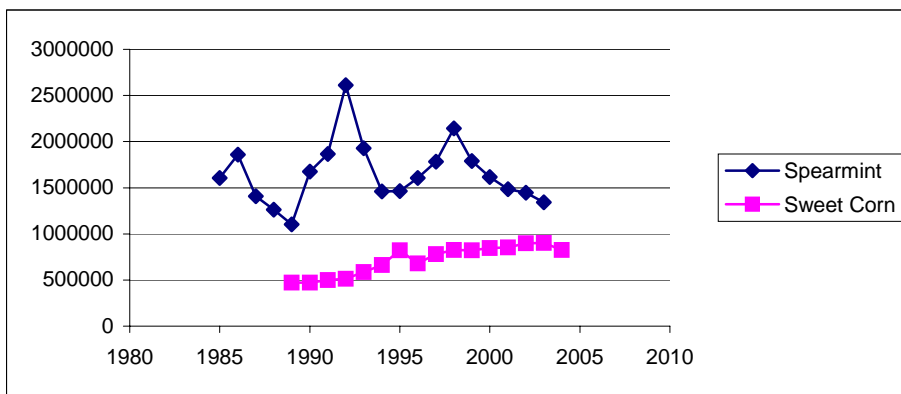


Figure 10. Spearmint (Lbs) and sweet corn (tons) production.

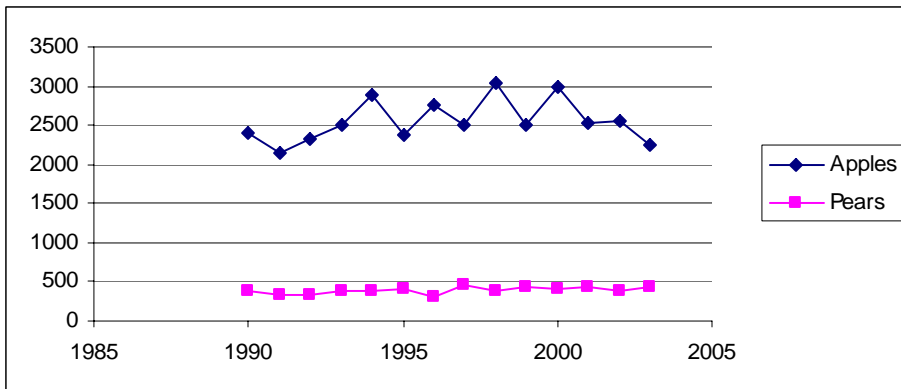


Figure 11. Apple and pear production (1000 tons).

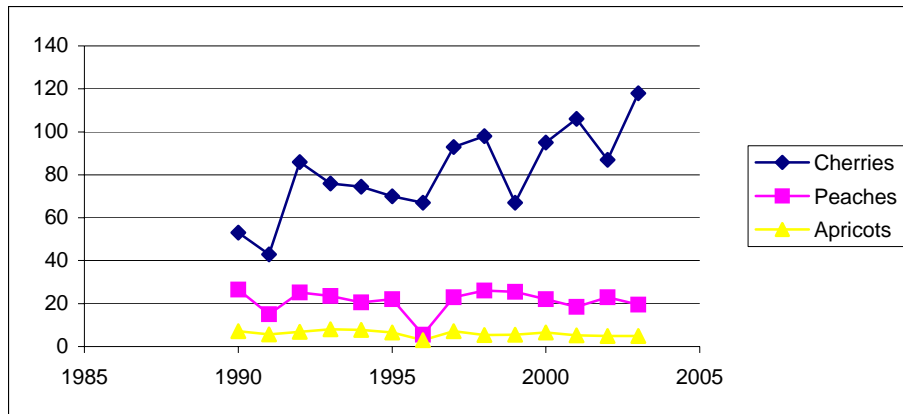


Figure 12. Cherry, peach and apricot production (1000 tons).

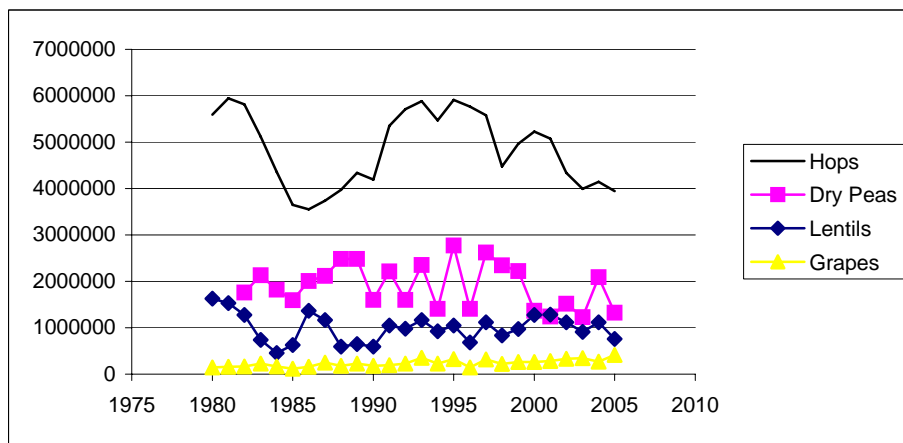


Figure 13. Hops (1000 Lbs), dry pea (Cwt), lentil (Cwt) and grape (tons) production.

## **7 Appendix 2 B: Vector Autoregression Results**

See Excel Spreadsheets County1.xls –County77.xls, district1.xls—district4.xls, and stateforecasts.xls. Each file includes two worksheets.

One includes the data that were used in the VAR for that county/district/state, the 30-year forecasts and 95% confidence bounds for the forecasts. Forecasts have been appended to the original data in the worksheet. Upper and lower bounds of the forecasts are listed separately with the suffix “\_UB” and “\_LB”, respectively. Note in no case were explicit non-negativity restrictions imposed on the regressions, so forecasts and confidence limits may be negative. The second worksheet includes a graph of the forecasts and confidence intervals. Stata code used to generate these results is available upon request.

## CHAPTER 6: REFERENCES

- American Bar Association. 2003. Water Resources Committee Newsletter February 2003. Accessed at <https://www.abanet.org/environ/committees/waterresources/newsletter/feb03/statereport.html> on August 16, 2006.
- Aspect Consulting, LLC. 2005. WRIA 31 Water Storage Assessment Report, ASR Assessment Kennewick. October 24, 2005.
- Association of Cities. 1999. Draft Guide to Watershed Planning and Management. Washington State Department of Ecology Publication No. 99-106. Internet: <http://www.ecy.wa.gov/pubs/99106.pdf>
- Bessler, D.A. 1984. An analysis of dynamic economic relationships: an application to the U.S. hog market. Canadian Journal of Agricultural Economics. 32:109-124.
- Bonneville Power Administration (BPA). 2005. 2004 Pacific Northwest Loads and Resources Study (2004 White Book) Operating Years 2006 Through 2015. Updated November 15, 2005.
- Boswell, Sharon and Lorraine McConaghy. 1996. "Out from Under a New Deal" special to The Seattle Times. Photo Credit: Bureau of Reclamation / Seattle Times. September 20, 2006 from website: <http://seattletimes.nwsources.com/centennial/may/newdeal.html>.
- Brundtland, 1987. UN Brundtland Commission Report. Our Common Future. Oxford University Press. Available online at [http://www.are.admin.ch/are/en/nachhaltig/international\\_uno/unterseite02330/](http://www.are.admin.ch/are/en/nachhaltig/international_uno/unterseite02330/).
- Clifford, Peggy, Clay Laundry, and Andrea Larsen-Hayden. 2004. Analysis of Water Banks in the Western States. Washington State Department of Ecology Publication No. 04-11-011. Internet: <http://www.ecy.wa.gov/pubs/0411011.pdf>
- Dittmer, Kyle. 2005. Climate Change on Columbia Basin Treaty-Tribal Lands. In: Climate and Fisheries: Impacts, Uncertainty and Responses of Ecosystems and Communities Program and Abstracts. October 26-28, 2005.
- Economic and Engineering Services (EES). 2000. Watershed Assessment – Yakima River Basin. Yakima River Basin Watershed Planning Unit and Tri-County Water Resources Agency. June 2000.
- Environment Canada. 2000. Glaciers and Climate Change. The Science and Environment Bulletin. January/February 2000. Available online at [http://www.ec.gc.ca/science/sandejan00/article3\\_e.html](http://www.ec.gc.ca/science/sandejan00/article3_e.html).
- Federal Columbia River Power System (FCRPS). 2001. The Columbia River System Inside Story. Second Edition. April 2001. Obtained from Bonneville Power Administration Website on Sept. 6, 2006. [http://www.bpa.gov/power/pg/columbia\\_river\\_inside\\_story.pdf](http://www.bpa.gov/power/pg/columbia_river_inside_story.pdf).
- Golder Associates, Inc. (Golder). 2001. Hydrogeology and Engineering Compilation for an Aquifer Storage and Recovery (ASR) Pilot Test Yakima, Washington Aquifer Storage and Recovery (ASR) Pilot Test Results Yakima, Washington. December 2001.



- Golder Associates, Inc. (Golder). 2006. Appraisal Assessment of the Yakima River Pump Exchange Alternative Delivery System for Roza and Sunnyside Valley Irrigation Districts. A component of the Yakima River Basin Water Storage Feasibility Study, Washington. Technical Series No. TS-YSS-11. Prepared for U.S. Bureau of Reclamation. October 2006.
- Hamlet, A., D. Fluharty, D. Lettenmaier, N. Mantua, E. Miles, P. Mote, L. Whitley Binder. 2001. Effects of Climate Change on Water Resources in the Pacific Northwest: Impacts and Policy Implications. JISAO Climate Impacts Group, University of Washington. July 3, 2001.
- Lane, R.C. 2004. Estimated Domestic, Irrigation, and Industrial Water Use in Washington, 2000. U.S. Geological Survey Science Investigations Report 2004-5015, 16 p. Available online at <http://pubs.usgs.gov/sir/2004/5015/>.
- Lang, Bill. 2006. Columbia River. Center for Columbia River History. Obtained September 20, 2006 from website: <http://www.ccrh.org/river/history.htm>
- Lee, Mike. 2006. "Columbia Reservoir Still Untapped". Tri-City Herald. Obtained September 20, 2006 from website: <http://archive.tri-cityherald.com/reservoir/story3.html>.
- National Marine Fisheries Service (NMFS). 2004. Endangered Species Act – Section 7 Consultation Biological Opinion, Consultation on Remand for Operation of the Columbia River Power System and 19 Bureau of Reclamation Projects in the Columbia Basin (Revised and reissued pursuant to court order, NWF v. NMFS, Civ. No. CV 01-640-RE (D. Oregon)). November 30, 2004.
- National Research Council of the National Academies (National Research Council). 2004. Managing the Columbia River: Instream Flows, Water Withdrawals, and Salmon Survival. Washington, DC: The National Academies Press.
- Office of Financial Management, Forecasting Division (OFM). 2006. File: gmacountychange.xls From: [www.ofm.wa.gov](http://www.ofm.wa.gov) (accessed 9/06). Modified June 29, 2006.
- Oregon Water Resources Department (OWRD). personal communication. 2006. Oregon Water Rights Database. Excerpt of water rights and applications within 1 mile of the Columbia River. Provided by Oregon Water Resources Department. September 14, 2006.
- Pacific Northwest Resource Adequacy Forum (PNRAF). 2005. A Resource Adequacy Standard for the Pacific Northwest. Draft – Rev 1. September 16, 2005.
- Pacific Salmon Treaty. 1985. Attachment E, Habitat and Restoration, Annex 4 to Treaty Between the Government of Canada and the Government of the United States of America Concerning Pacific Salmon. Obtained September 14, 2006 from website: <http://www.psc.org/pubs/Treaty.pdf>.
- Planning and Management Consultants. 2003. Water Demand Forecast Methodology for California Water Planning Areas – Work Plan and Model Review. Submitted to California Bay-Delta Authority. July 29, 2003.
- Trade Development Alliance of Greater Seattle. 2006. Agriculture Industry Overview. Obtained October 10, 2006 from website: <http://www.seattle.gov/tda/industry/agriculture.htm>.

- U.S. Army Corps of Engineers (Corps). 2003. Columbia River Water Management Report Water Year 2002. Columbia River Water Management Group. October 2003. Available online at [http://www.nwd-wc.usace.army.mil/crwmg/crwmg\\_reports.htm](http://www.nwd-wc.usace.army.mil/crwmg/crwmg_reports.htm).
- U.S. Bureau of Reclamation. 2006a. Columbia Basin Project Washington. Obtained from the Bureau of Reclamation's website September 2006: <http://www.usbr.gov/dataweb/html/columbia.html>.
- U.S. Bureau of Reclamation (Reclamation). 2006b. Odessa Subarea Special Study Columbia Basin Project Plan of Study. February 2006. Available online at [http://www.usbr.gov/pn/programs/ucao\\_misc/odessa/planofstudy.pdf](http://www.usbr.gov/pn/programs/ucao_misc/odessa/planofstudy.pdf).
- U.S. Bureau of Reclamation (Reclamation). 2006c. Plan of Study. Supplemental Feed Route for Potholes Reservoir. Columbia Basin Project. May 2006.
- U.S. Bureau of Reclamation (Reclamation). 2006d. Reconnaissance Report – Project Alternative Solutions Study (PASS). Odessa Subarea Special Study. Columbia Basin Project, Washington. September 2006.
- U.S. Geological Survey (USGS). 2002. Columbia River Basin Washington. U.S. Geological Survey Website. Obtained August 11, 2006, from website: [http://vulcan.wr.usgs.gov/Volcanoes/Washington/ColumbiaRiver/description\\_columbia\\_river.html](http://vulcan.wr.usgs.gov/Volcanoes/Washington/ColumbiaRiver/description_columbia_river.html).
- U.S. Geological Survey (USGS). 2004. Estimated Use of Water in the United States in 2000. USGS Circular 1268. By Susan S. Hutson, Nancy L. Barber, Joan F. Kenny, Kristin S. Linsey, Deborah S. Lumia, and Molly A. Maupin. Available online at <http://water.usgs.gov/watuse/data/2000/index.html>.
- Volkman, J. M. 1997. A River in Common: The Columbia River, the Salmon Ecosystem, and Water Policy. A Report to the Western Water Policy Review Advisory Commission. Springfield, VA: National Technical Information Service
- Wandschneider, Philip, et al. 2006. Crop Production and Water Use Forecasts for the State of Washington Based on Econometric Estimation and Expert Opinion. School of Economic Sciences, Washington State University. September 2006.
- Washington Department of Health (DOH). 2002. Rule Development Committee Issue Research Report Draft: Residential Flow Rates. Wastewater Management Program. May 31, 2002.
- Washington Department of Health (DOH). 2005. Guidance Document Preparing Water Shortage Response Plans. DOH Pub. #331-301 (Rev.). June 2005.
- Washington Department of Health (DOH) Office of Drinking Water. personal communication. 2006. Personal Communication with Megan Nicodemus. Columbia River Data Group A Systems and Columbia River Data Group B Systems. Obtained 8/16/2006.
- Washington State Department of Ecology (Ecology). 1997. Water Reclamation and Reuse Standards. Publication No. 97-23. September 1997.

- Washington State Department of Ecology (Ecology). 1998. Criteria for Sewage Works Design, Water Quality Program. December 1998.
- Washington State Department of Ecology (Ecology). 2003. 2002 Report to the Legislature, Trans Boundary Water, Feasibility of Conducting Negotiations with other States and Canada on Water Bodies Shared with Washington. Ecology Publication No. 03-11-009.
- Washington State Department of Ecology (Ecology). 2005. Determining Irrigation Efficiency and Consumptive Use. Water Resources Program Guidance. Guide 1210. Available online at <http://www.ecy.wa.gov/programs/wr/rules/images/pdf/guid1210.pdf>.
- Washington State Department of Ecology (Ecology). 2006a. Columbia River Facts and Maps. Obtained August 11, 2006, from website: <http://www.ecy.wa.gov/programs/wr/cwp/cwpfactmap.html>.
- Washington State Department of Ecology (Ecology). 2006b. Draft Programmatic EIS for the Columbia River Water Management Program. Ecology Publication # 06-11-030. October 5, 2006.
- Washington State Department of Ecology (Ecology). personal communication. 2006a. Washington State Water Rights Tracking System (WRTS). Excerpt of water rights and applications within the 1 mile Management Zone. Provided by Ecology August 2, 2006.
- Washington State Department of Ecology (Ecology). personal communication, 2006b. Washington State Notice of Intent Database. Excerpt of permit-exempt wells within the 1 mile Management Zone. Provided by Ecology August 7, 2006.
- Washington State Department of Ecology (Ecology). personal communication. 2006c. Email from Ron Dixon on August 9, 2006. Preliminary data on interruptible water rights within 1 mile of the Columbia River.
- Washington State Department of Ecology (Ecology). personal communication. 2006d. Land Use Info. September 7, 2006.
- Washington State Department of Ecology and U.S. Bureau of Reclamation (Ecology and Reclamation). 2005. Columbia River Mainstem Storage Options, Washington: Off-Channel Storage Assessment Pre-Appraisal Report. Prepared by Montgomery Watson Harza (MWH). December 2005.
- Washington State Department of Ecology (Ecology) and Washington Department of Fish and Wildlife (WDFW). 2004. Draft Environmental Impact Statement: Columbia River Initiative. December 2004.

## GLOSSARY

Term	Definition
1980 Instream Flow Rule	In June 1980, Ecology adopted an administrative rule for protecting instream flows on the mainstem Columbia River (WAC 173-563). Water rights on the Columbia River mainstem issued after 1980 are subject to the state instream flow rule.
Acquisition	The selling of a whole or partial water right to state or federal agencies or to private conservation organizations.
Acre-foot	A unit of volume equal to one acre of area by one-foot depth (equal to 43,560 cubic feet or 325,851 gallons). This unit is generally used to measure the volumes of water used or stored in reservoirs. Also used are thousands of acre-feet (kaf) and millions of acre-feet (maf).
Active storage	Water occupying the active storage capacity of a reservoir.
Active storage capacity	The portion of the live storage capacity in which water normally will be stored or withdrawn for beneficial uses, in compliance with operating agreements or restrictions.
Adjudication	“The process where all those claiming the right to use water from a water source are joined in a single legal action to determine the rights and priorities for the use of the water” (Clifford, et al., 2004:149).
Appropriation	“The establishment of a water right by diversion, due diligence and beneficial use. Must be adjudicated to establish seniority of right” (Clifford, et al., 2004:149).
Aquifer storage and recovery	A water storage technique that uses underground aquifers as storage reservoirs. ASR is permitted by Ecology under WAC 173-157 and provides an opportunity for utilizing underground storage, provided certain technical conditions are met. Water may be stored for a period of weeks, months or longer, and then recovered for potable or other uses.
Average Streamflow	The average rate of flow at a given point during a specified period (Corps, 2003).
Basin	“The land area that drains into [a] waterbody” (Clifford, et al., 2004:156).
Beneficial use	Beneficial use shall include, but not be limited to, use for domestic water, irrigation, fish, shellfish, game and other aquatic life, municipal, recreation, industrial water, generation of electric power, and navigation (RCW 90.14.031(2) and WAC 173-500-050(4)).
Biological Opinion	A set of recommendations from NMFS defining what operations the Columbia River system operation should be in order to ensure that the endangered species are not placed into jeopardy (Corps, 2003).

Term	Definition
Columbia Basin Project	A federal project authorized by Congress in 1935 and developed in parallel with the construction of Grand Coulee Dam. Primary irrigation facilities are the Feeder Canal, Banks Lake, the Main, West, East High, and East Low Canals, O’Sullivan Dam, Potholes Reservoir and Potholes Canal. There are over 300 miles of main canals, about 2,000 miles of laterals, and 3,500 miles of drains and wasteways on the project (Bureau of Reclamation, 2006a). The project irrigation facilities were planned to deliver a full water supply to 1,029,000 acres of land previously used only for dry farming or grazing. About 621,000 acres are currently authorized to be irrigated and further development is on hold.
Columbia River Initiative (CRI)	An initiative created to address the water management issues in the Columbia River. The CRI included a framework for issuing new water rights from the Columbia River while improving streamflows for fish. The CRI was composed of four elements—a legislative proposal for consideration in the 2005 legislative session, a proposed budget to secure water and conduct feasibility studies of new off-channel storage projects, draft rule language for implementation of the CRI, and cooperative agreements with federal and local partners.
Columbia River Water Management Program	A program established by House Bill 2860 in which Ecology aggressively pursues development of water supplies to benefit both instream and out-of-stream uses through storage, conservation and voluntary regional water management agreements.
Columbia-Snake River Irrigators Association (CSRIA)	An association that represents farming operations in Eastern Washington that irrigate about 250,000 acres of row crop, vineyard and orchard lands. Its members have farming operations along the Columbia-Snake River system north from the City of Brewster, reaching to the south along the John Day and McNary Pools of the Columbia River. Some of the members own farming operations in the Yakima Valley and within the CBP area. The membership also includes several municipal service irrigators, including Brewster, Kennewick, West Richland, and the Kennewick Irrigation and Hospital Districts (Ecology, 2006b).
Conservation	Conservation is the management of water resources so as to maximize efficiency of use and eliminate waste. In the context of the Columbia River Water Management Program, conservation generally refers to non-storage projects and can include water right acquisitions, infrastructure efficiency projects, and other projects designed to provide access to new water supplies for both instream and out-of-stream uses.
Consumptive Use	Use of water whereby there is a diminishment of the water source (WAC173-500-050(5)). In the context of irrigation, consumptive use includes crop evapotranspiration, and water evaporated during irrigation applications (e.g. spray, canopy and wind losses).
Control point	A stream gage that is used to measure the discharge of the stream to ensure that instream flow requirements are met.

Term	Definition
Crop Irrigation Requirement (CIR)	Water supplied by irrigation to satisfy evapotranspiration that is not provided by water stored in the soil and precipitation. Where additional quantities of water are required for leaching, frost-protection, cooling and other miscellaneous crop requirements, these quantities are added to the CIR.
Cubic feet per second (cfs)	Unit of measure expressing rates of discharge. Also expressed as thousand cubic feet per second (kcfs) (Corps, 2003). One cfs is equal to 449 gallons per minute and approximately two acre-feet per day.
Dam	A barrier built across a watercourse for impounding water.
Decision Support System	A model that attempts to capture many different parts of a complex system and couple them together in a variety of ways. The connections between parts can be quantitative (i.e. non-linear and linear mathematical relationships) and qualitative (i.e. preferences or rules). Groups of parts can be examined independently or in conjunction with others. DSS is useful for compiling and organizing information as well as for simulating processes and making decisions.
Discharge	The rate of flow of a river or stream measured in volume of water per unit of time. The standard units of measure are cubic feet per second (cfs) or thousand cubic feet per second (kcfs) (Corps, 2003).
Diversion	The amount of water withdrawn from surface or ground water sources (Corps, 2003).
Drafting	The process of releasing water from storage in a reservoir. Operators begin drafting reservoirs—through turbines or over the spillway of a dam—to lower the level for a number of reasons, including flood control or downstream flows for fish or power generation (FCRPS, 2001).
Drawdown	The distance that the water surface of a reservoir is lowered from a given elevation as the result of the withdrawal of water (Corps, 2003).
Efficiency	Generally, efficiency is the ratio of output to input. Efficiency in the Columbia River Water Management Program will depend on the context of the project (e.g. agricultural, industrial, municipal). Increasing efficiency could be measured by increasing the output with the same amount of input, or by maintaining the same output with less input. For example, increasing irrigation efficiency means that the same or a greater crop production occurs with less water use. See also, Irrigation Efficiency.
Endangered Species	Any species which, as determined by the U.S. Fish and Wildlife Service, is in danger of extinction throughout all or a significant portion of its range other than a species of the class Insecta determined to constitute a pest whose protection would present an overwhelming and overriding risk to man (Corps, 2003).
Evapotranspiration	A loss of water from the soil both by evaporation and by transpiration from growing plants.



Term	Definition
Existing Water Right Capacity	The difference between current water use and existing water rights.
Fallowing Corners	Occurs when a center pivot with a round irrigation pattern is installed on a square(ish) field and the landowner decides to fallow the corners in lieu of irrigating them by some other method.
Feed route	A route (can be a combination of artificial and natural channels) used to transport irrigation water from one location to another.
First tier demand forecast	A water demand forecast based solely on water right applications on file in Ecology's WRTS database. It includes a summary of water right applications and the water use associated with those applications.
Flood control	Any activity designed to reduce the flow and impact of a flood. Flood control measures include levees and wall construction; improving discharge capacity of the stream channel; reservoir and dam construction; and diversion of excess water into bypasses or floodways.
Gage	An instrument that can measure water quantity and quality parameters.
Group A Systems	Those domestic water systems that regularly serve either 15 or more service connections or 25 or more people per day for 60 or more days per year.
Group B Systems	Those domestic water systems that serve fewer than 15 service connections and fewer than 25 people per day, or 25 or more people per day for fewer than 60 days per year.
Hydropower	Mechanical energy derived from falling or flowing water, e.g., rivers, streams, and the overflow of dams. Water flowing from a higher level to a lower level (as from a dam or waterfall) is used to activate a turbine that drives an electric generator, a process called hydroelectric power generation. The amount of power furnished is proportional to the rate of flow of the water and the vertical distance through which it falls.
Impoundment	A facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold an accumulation of liquid.
Inchoate water right	An inchoate water right is an incomplete appropriative right in good standing that comes into being when the first step required by law for acquiring an appropriative right is taken (e.g. a permit is issued). The inchoate right remains in good standing for so long as the requirements of the law are fulfilled. An inchoate right to use water ripens into a vested water right only in the amount of water actually put to a beneficial use. In relation to the Columbia River, inchoate rights represent a portion of existing water rights that may be "in the river" now, but may not be in the future as the rights are developed.



Term	Definition
Instream Flow	<p>Used to identify a specific streamflow (typically measured in cubic feet per second, or cfs) at a specific location for a defined time, and typically following seasonal variations. Instream flows are usually defined as the streamflows needed to protect and preserve instream resources and values, such as fish, wildlife and recreation.</p> <p>(<a href="http://www.ecy.wa.gov/programs/wr/instream-flows/isfhtm.html">http://www.ecy.wa.gov/programs/wr/instream-flows/isfhtm.html</a>). A specific instream flow can be adopted by Ecology in rule, which becomes a water right with a priority date of the adoption of the rule; see 1980 Instream Flow Rule.</p>
Instream Use	<p>“A type of end application of water use that does not require withdrawal from the source. Examples of instream uses are recreational, navigational, and ecosystem preservation” (Clifford, et al., 2004:150).</p>
Interruptible Water Right	<p>Water rights junior to the 1980 instream flow rule that could be curtailed in low flow conditions in order to maintain adequate flows for fish. Interruptible rights can be curtailed when the March 1 forecast for April through September runoff at The Dalles Dam on the lower Columbia River is less than 60 million acre-feet.</p>
Inventory	<p>The water supply inventory described in this report combines the information requirements under Sections 5 and 6 of ESSHB 2860. Section 5 of ESSHB 2860 defines the required elements of the water supply inventory as:</p> <ul style="list-style-type: none"> <li>a. A list of conservation projects that have been implemented under this chapter and the amount of water conservation achieved; and</li> <li>b. A list of potential water supply and storage projects in the Columbia Basin, including <ul style="list-style-type: none"> <li>i. Cost per acre-foot;</li> <li>ii. Benefit to fish and other instream uses;</li> <li>iii. Benefit to out-of-stream uses; and</li> <li>iv. Environmental and cultural impacts.</li> </ul> </li> </ul> <p>Section 6 of ESSHB 2860 describes information requirements for a Columbia River mainstem water information system that includes:</p> <ul style="list-style-type: none"> <li>a. Total aggregate quantity of water rights issued under state permits and certificates, and filed under state claims on the Columbia River mainstem and for ground water within one mile of the mainstem; and</li> <li>b. Total volume of current water use under these rights as metered and reported by water users.</li> </ul>
Irrigation	<p>The controlled application of water to cropland, hay fields and/or pasture to supplement that supplied by nature.</p>
Irrigation Efficiency	<p>Irrigation efficiency represents the amount of water that needs to be applied in addition to the crop requirement for a particular type of irrigation system to meet the component system losses described below.</p>

Term	Definition
John Day/McNary Reserve	On August 8, 1978, the John Day/McNary Reserve (WAC 173-531) was created to set aside 1,320,000 acre-feet per year to provide a water supply for the 330,000 acres of irrigation projected to be developed in the Columbia Basin by the year 2020 and 26,000 acre-feet of water for municipal use. The reserve is directed toward lands under existing water right permits, pending applications, and land for which appropriation applications may not yet have been filed.
Junior water right	“Water rights that were established more recently than senior rights. The more recent a date on a water right, the more “junior” it is relative to water rights with older issuance dates. All water rights are defined in relation to other rights, and a water right holder only acquires the right to use a specific quantity of water under specified conditions. Therefore, when limited water is available, junior rights cannot be exercised until all senior rights have been satisfied” (Clifford, et al., 2004:152).
Land Conservation Program	A riparian or upland conservation program that removes irrigated land from production for some state or federal conservation program purposes. Conservation Reserve Enhancement Program (CREP) and Conservation Reserve Program (CRP) are potential examples where irrigated agriculture may have been fallowed or put to use for some other conservation practice that does not require irrigation.
Large storage opportunity	A storage facility with a capacity that is greater than 1 million acre-feet.
Lining/Piping	The conversion of open-ditch water conveyance delivery systems to a more efficient delivery pipe or the placement of an impermeable liner within a ditch.
Management	The application of a system of managing water applications that creates water savings through scheduling changes or other management practices. Irrigation Water Management (IWM) is an example of a management tool that may create water savings. Canal automation is another example.
Management Zone	The one-mile corridor on either side of the Columbia River mainstem as defined in ESSHB 2860.
Mean Annual Flow	Volume (or rate) of river flow during a year (on average).
Municipal Use	There are three situations where water is considered to be for municipal use. The first is when water is used for residential purposes by fifteen or more residential service connections or for a nonresidential population that is, on average, at least 25 people for at least 60 days a year. The second is when water is used for governmental or governmental proprietary purposes by a city, town, public utility district, county, sewer district, or water district. The third includes indirect uses of water for residential, governmental or governmental proprietary purposes through the delivery of treated or raw water to a public water system for such use (RCW 90.03.015).

Term	Definition
National Environmental Policy Act (NEPA)	A 1969 federal Act that requires federal agencies to integrate environmental values into their decision-making processes by considering the environmental impacts of their proposed actions and reasonable alternatives to those actions ( <a href="http://www.epa.gov/compliance/nepa/">http://www.epa.gov/compliance/nepa/</a> ).
Natural Streamflow	The rate of flow at a given point of an uncontrolled stream, or streamflow adjusted to eliminate the effects of all man-made development (Corps, 2003).
Non-Consumptive use	A type of water use where either there is no diversion from a source body, or where there is no diminishment of the source (WAC 173-500-050(9)).
Non-use	When all or a portion of the water associated with a water right has not been beneficially used.
Odessa Ground Water Management Subarea	An area of approximately 2,000 square miles under the eastern-most portion of the authorized Columbia Basin project, east of the East Low Canal, designated as a groundwater management subarea in 1988. The purpose of establishing the Odessa Ground Water Management Subarea (Odessa Subarea) was to "...provide a procedure for managing ground water within the Odessa ground water subarea to insure the maintenance of a safe sustaining yield from the ground water body within a reasonable and feasible pumping lift" (WAC 173-130A-040). Constraints on water use in the Odessa Subarea are based on controlling the rate of decline in the water level, establishing a maximum lowering of the water table level, regulating withdrawal of ground water to protect senior water right holders, limiting new water users and limiting the location where new wells may be drilled.
On-Farm Efficiency	The installation of a more efficient irrigation application system. Examples would include a conversion from flood or rill/furrow irrigation to center pivot technology. Also, the replacement of hand-lines or less efficient sprinkler systems to drip irrigation.
Out-of-stream water use	A use that requires water to be taken out of the stream.
Permanent Crop Change	A permanent change in a crop grown on a field to one with a smaller irrigation requirement. A change from tree fruit or alfalfa to grapes would be an example.
Permit-exempt well	A well that is exempt from the state's water right permitting system because it is used for an exempt use. According to the Attorney General's Office, the four types of ground water use that are exempt from the state's water right permitting system include: 1) Providing water for livestock (no gallon per day limit or acre restriction); 2) Watering a non-commercial lawn or garden one-half acre in size or less (no gallon per day limit); 3) Providing water for a single home or groups of homes (limited to 5,000 gallons per day); and 4) Providing water for industrial purposes, including irrigation (limited to 5,000 gallons per day but no acre limit).

Term	Definition
Planning Unit	“A group that represents a wide range of water resource interests, tasked with conducting a watershed assessment and completing a watershed plan for one (or more) WRIAs. The initiating governments are responsible for development of an inclusive Planning Unit for the WRIA (RCW 90.82)” (Association of Cities, 1999:viii).
Pool reach	The length of the mainstem Columbia River between two dams with the exception of the Hanford reach, which is a national monument and not impounded.
Power Buyback	Where formerly irrigated lands have been voluntarily fallowed in a contractual agreement with an electrical power provider. This occurred in the 2001 drought.
Priority date	Water use of any sort is subject to the “first in time, first in right” clause, originally established in historical Western water law and now part of Washington State law. This means that a senior right cannot be impaired by a junior right. Seniority is established by priority date - the date an application was filed for a permitted or certificated water right - or the date that water was first put to beneficial use in the case of claims and exempt ground water withdrawals.
Reclaimed Water	Effluent derived in any part from sewage from a wastewater treatment system that has been adequately and reliably treated, so that as a result of that treatment, it is suitable for a beneficial use or a controlled use that would not otherwise occur and is no longer considered wastewater (Ecology, 1998).
Relinquishment	Five or more successive years of non-use triggers relinquishment of a water right unless there is sufficient cause to explain the non-use. The burden to prove that the right is still in good standing and should not be considered relinquished, rests on the water right holder. There are several categories of reasons that may serve as “sufficient causes” to explain why water has not been used (RCW 90.14.140).
Re-regulating/Storage Reservoirs	The installation of a reservoir to store fluctuations in canal flow for release at a later time, reducing the amount of water spilled at the end of a system. Also includes the installation of a reservoir to store water during high streamflow periods for use later in the season during low streamflow periods.
Reservoir	A natural or artificial pond or lake used for the storage and regulation of water.
Reservoir Storage Capacity	The volume of a reservoir available to store water (Corps, 2003).
Return Flow	Waters that, after having been diverted for a beneficial use, escape control of the water right holder and return to a public water body. Return flows may include, for example, waters lost through conveyance system inefficiency or waters used for a beneficial purpose that are not fully consumed by the purpose of use.

Term	Definition
River Mile	River Mile (RM) measurements start at the mouth of the stream (RM 0.0) and are measured in statute miles (one statute mile = 5,280 feet) along the center line of a river.
Runoff	The water from rain, snowmelt or irrigation that flows over the land surface and is not absorbed into the ground, instead flowing into streams or other surface waters or land depressions.
Run-of-the-river plant	A hydroelectric power plant using pondage or the flow of the stream as it occurs (Corps, 2003).
Seasonal Storage	Water held over from the annual high-water season to the following low-water season (Corps, 2003).
Second tier demand forecast	The water demand forecast that is based on projections of estimated current water use. This projection focuses more on “wet” water.
Seepage	The flow of a fluid through the soil pores, in downward or upward direction.
Senior water right	Water rights that are older (more senior) than those of junior rights. All water rights are defined in relation to other rights, and a water right holder only acquires the right to use a specific quantity of water under specified conditions. Thus, when limited water is available, senior rights are satisfied first in the order of their Priority Date” (Clifford, et al., 2004:154).
Small storage opportunity	A storage facility with a capacity that is less than 1 million acre-feet.
Snowpack	An area of naturally formed, packed snow that usually melts during the warmer months.
Split-Season Acquisition	When a farmer voluntarily forgoes mid to late season irrigation. An example is when a hay farmer decides to harvest only the first cutting of hay and forgo the rest of the season through a lease or contractual agreement.
Streamflow	The rate at which water passes a given point in a stream usually expressed in cubic feet per second (Corps, 2003).
Surface to Ground Water Conversion	When a well is drilled to be used as a primary source for a water right that was previously served from a surface water source. Water savings may accrue from a reduction in canal seepage. This technique may be used in some areas to mitigate for low instream flows.
Sustainability	“Development that meets the needs of the present without compromising the ability of future generations to meet their own needs” (Brundtland, 1987).
Tail Water Reuse	The capturing and reuse of tail water from a field or conveyance system rather than returning it back to the stream.
Tributary	A stream that contributes water to a larger stream.

Term	Definition
Trust water	Trust water is a water right or a portion of a right acquired by the state for management in the Trust Water Right Program (Trust Program) (RCW 90.42.020(3)). The state may acquire all or portions of water rights by purchase, lease, or donation, and may acquire trust water rights on a permanent or a temporary basis. A water right exercised through the Trust Program for the beneficial use of instream flows is not relinquished for non-use while it is in the program.
Uninterruptible Water Right	Water rights that are not subject to curtailment in low flow conditions in order to maintain adequate flows for fish due to the June 1980 instream flow rule adopted by Ecology. These include existing pre-1980 rights, pre-1980 reserved water rights, and additional water withdrawn for the Columbia Basin Project.
Vector Autoregression	A method of forecasting crop yield and prices whereby “identification is achieved by estimating reduced-form relationships, in which every variable in the multi-variate system is allowed to affect every other variable in the system with lags” (Bessler, 1984).
Water Bank or Water Market	An institutional mechanism that facilitates the legal transfer and market exchange of surface water, ground water, or water storage. This mechanism may be administered by any type of entity, such as private, public, or non-profit.
Water Resource Inventory Areas (WRIA)	“One of 62 geographic areas comprising the State of Washington, defined on the basis of surface water resources and codified in Washington Administrative Code 173-500-040” (Association of Cities, 1999:ix).
Water right certificate	The legal record of a water right issued by Ecology once the department confirms that all the conditions of the permit have been met. It is recorded at a county auditor’s office. Once Ecology issues a certificate, the water right is considered appurtenant (attached) to the land on which the water is used ( <a href="http://www.ecy.wa.gov/pubs/961804swr.pdf">http://www.ecy.wa.gov/pubs/961804swr.pdf</a> ).
Water right claim	A claim to a water right, for a water use that predates the state’s water permitting system (for surface water, 1917/1932, for ground water, 1945). The validity of a claim can only be confirmed through judicial processes ( <a href="http://www.ecy.wa.gov/pubs/961804swr.pdf">http://www.ecy.wa.gov/pubs/961804swr.pdf</a> ).
Water right permit	Permission by the state to develop a water right; it is not a final water right. A permit allows you to proceed with construction of the water system and start putting the water to beneficial use, in accordance with the terms of your permit. ( <a href="http://www.ecy.wa.gov/pubs/961804swr.pdf">http://www.ecy.wa.gov/pubs/961804swr.pdf</a> )

Term	Definition
Water Right Tracking System	The database Ecology uses to track water rights. The information captured in this database includes the type of water right (surface or ground), the name of the business or person applying for a right or a change to an existing right, the priority date or date of application, the instantaneous quantity ( $Q_i$ ) or maximum withdrawal rate requested, the annual quantity ( $Q_a$ ) or volume requested (reported in acre-feet per year), the purpose of use, the water source and the geographic location (township, range and section) for the point of diversion (place of withdrawal) and/or place(s) of use.
Water Year	The period from October 1 through September 30 of the following calendar year. It is the time base used in hydrology (Corps, 2003).
Watershed	“The land area that drains into the defined waterbody” (Clifford, et al., 2004:156).
Watershed Management Plan	A document presenting the findings and recommendations of the planning unit for a Watershed Management Program in the management area” (Association of Cities, 1999:ix).





## ACRONYMS AND ABBREVIATIONS

AF	acre-foot or acre-feet
AFY	acre-foot per year or acre-feet per year
ASR	Aquifer Storage and Recovery
BiOp	Biological Opinion
BPA	Bonneville Power Administration
Bureau of Reclamation	U.S. Bureau of Reclamation
CBP	Columbia Basin Project
CFS	cubic feet per second
CIG	University of Washington Climate Impacts Group
CIR	Crop Irrigation Requirement
Corps	U.S. Army Corps of Engineers
CREP	Conservation Reserve Enhancement Program
CRI	Columbia River Initiative
CRP	Conservation Reserve Program
CSRIA	Columbia-Snake River Irrigators Association
DEIS	Draft Environmental Impact Statement
DOH	Washington State Department of Health
DSS	Decision Support System
Ecology	Washington State Department of Ecology
EIS	Environmental Impact Statement
ESA	Endangered Species Act
ESSHB	Engrossed Second Substitute House Bill
ET	Evapotranspiration
FCRPS	Federal Columbia River Power System
FEIS	Final Environmental Impact Statement
GPD	Gallons per day
GPM	Gallons per Minute
GUD	General Use Designation
GW	Ground Water
IJC	International Joint Commission
IRPP	Instream Resources Protection Program

---

IWM	Irrigation Water Management
kcfs	thousand cubic feet per second
Management Program	Columbia River Water Management Program
Management Zone	Columbia River Management Zone
MIP	Minimum Irrigation Pool
MMS	Modular Modeling System
MOP	Minimum Operating Pool
NEPA	National Environmental Policy Act
NHD	National Hydrography Dataset
NLCD	National Land Cover Dataset
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NPCC	Northwest Power and Conservation Council
NRCS	National Resources Conservation Service
NWSRFS	National Weather Service River Forecast System
Odessa Subarea	Odessa Ground Water Management Subarea
OFM	Washington State Office of Financial Management
OFWC	Oregon Fish and Wildlife Commission
OWRD	Oregon Water Resources Department
PAWS	Public Agricultural Weather System
PEIS	Programmatic Environmental Impact Statement
pers. comm.	Personal Communication
PNRAF	Pacific Northwest Resource Adequacy Forum
PO	Power
PUD	Public Utility District
$Q_a$	Annual Quantity
$Q_i$	Instantaneous Quantity
RCW	Revised Code of Washington
RM	River Mile
RW	Reservoir Water
SEPA	State Environmental Policy Act
SSARR	Streamflow Simulation and Reservoir Regulation
SW	Surface Water

---

SWSL	Surface Water Source Limitation
SWSMP	Small Water System Management Program
TMDL	Total Maximum Daily Load
Trust Program	Washington State Department of Ecology's Trust Water Rights Program
TWSA	Total Water Supply Available
U and A's	Usual and accustomed places
UGA	Urban Growth Area
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VAR	Vector Autoregression
VRA	Voluntary Regional Agreement
WAC	Washington Administrative Code
WDFW	Washington Department of Fish and Wildlife
WFWC	Washington Fish and Wildlife Commission
WISE	Washington Irrigation Scheduling Expert
WR	Water Right
WRA	Water Right Application
WRIA	Water Resource Inventory Area
WRTS	Washington State Water Rights Tracking System
WSCC	Washington State Conservation Commission
WSDA	Washington State Department of Agriculture
WSP	Water System Plan
WSU	Washington State University
WSWRA	Washington State Water Resources Association

## Standard Water Unit Conversions

1 cfs = 448.8 gpm

1 cfs = 646,272 gpd

1 cfs = 1.98 ac-ft per day

1 cfs = 0.6463 mgd

1 cubic foot = 7.48 gallons

1 gpm = 1,440 gallons per 24 hour day

1 gpm = 1.61 ac-ft per year

1 ac-ft = 1 foot of water on 1 acre

1 ac-ft = 325,851 gallons