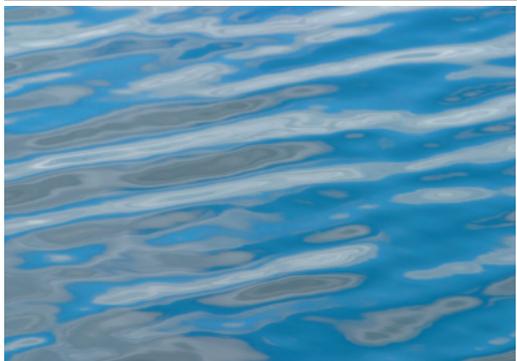


Environmental Health Survey for Central and Western Minnesota: June 2007 Survey Results

Detailed results of the 2007 Collaborative Assessment for Eight Central and Western Minnesota Counties presenting attitudes and perceptions regarding environmental health and emergency preparedness issues.

Issued September 2007



Prepared for:
Eight Central and Western
Counties in Minnesota:
Clay
Douglas
Grant
Otter Tail
Pope
Stevens
Traverse
Wilkin

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publications.htm](http://www.ndsu.edu/sdc/publications.htm)

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FOREWORD

This study was designed as a collaborative project intended to offer a regional perspective of residents in an eight-county region in central and western Minnesota. The research presented in this report will give policy makers insight into residents' views regarding county wide environmental health issues and their opinions related to the topic of emergency preparedness.

Acknowledgments

We wish to acknowledge the following committee members who participated in the regional effort. They include:

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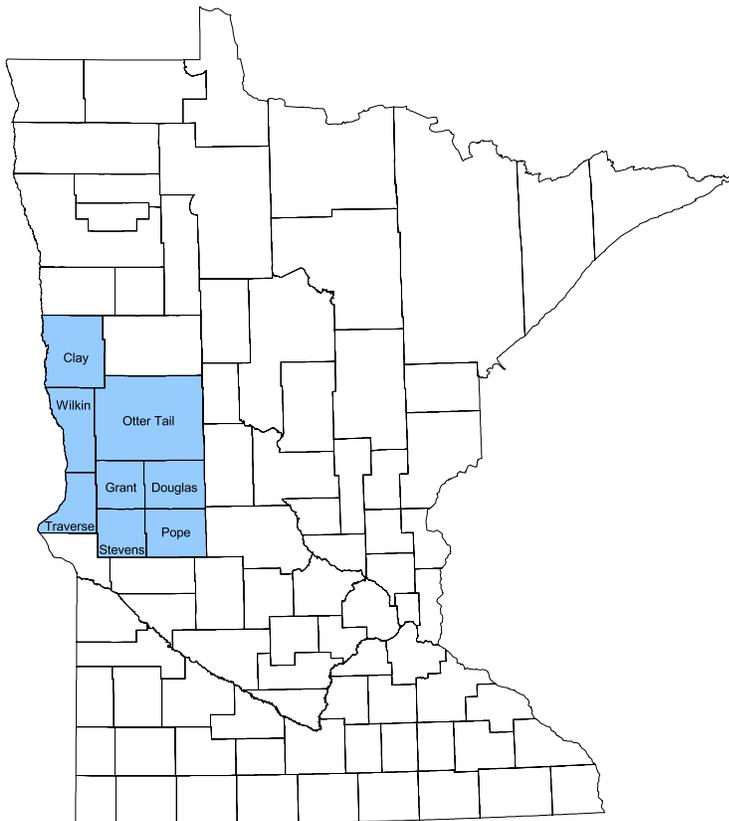


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INTRODUCTION

Study Objectives

The objective of this study was to gather information from residents in an eight-county region in Minnesota regarding environmental health issues and emergency preparedness in the event of a threatening emergency or disaster. Additional objectives include determining which environmental factor poses the greatest risk, how this perceived risk should be addressed, and finding the best way to provide environmental risk information to the public.

Methodology

A generalizable survey was conducted in June 2007 of residents in the following eight Minnesota counties: Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin. The survey was developed in cooperation with county public health representatives from the eight counties and the North Dakota State Data Center. The survey contained 26 questions and took, on average, 15 minutes to complete (see Appendix at the back of the report for the survey instrument).

A telephone survey of 606 randomly selected households was conducted in the eight Minnesota counties of Clay, Douglas, Grant, Otter Tail, Pope, Stevens, Traverse, and Wilkin in June of 2007. A random sampling design was used to ensure a representative sample of respondents within the overall region with an error rate of 4 percent and a confidence level of 95 percent. The sample also was designed to allow for independent analysis for each of the eight counties. However, in order to keep the costs of data collection manageable, a sample size of approximately 75 respondents from each county was used resulting in an error rate below 10 percent and a confidence level of 90 percent.

The overall response rate for the survey was 56 percent. Response rates for telephone interviewing typically range from 50 to 60 percent given the proliferation of telemarketing in recent years, and the advent of answering machines, caller identification systems, and other screening devices. Bad or disconnected numbers and hang-ups were not factored into the calculations.

Interviewers came from a pool of trained surveyors and were supervised by Data Center staff. Approval from the Institutional Review Board (IRB) at North Dakota State University was obtained to ensure that proper protocol was used and the rights of human subjects maintained. The survey consisted of questions that focus on five broad areas of environmental health issues: 1) air quality, 2) public health nuisances, 3) household hazardous waste, 4) water, and 5) food protection. In addition, a series of questions focused on resident's opinions about emergency preparedness.

The number of respondents (N) who answered each question is provided for each figure and appendix table. "DNK" refers to situations in which the respondent answered a question as "do not know."

EXECUTIVE SUMMARY

Outdoor Air Quality

- Overall, respondents indicated that the various outdoor air quality factors (i.e., agricultural dust and burning, transportation emissions or exhaust, industry fumes, lagoon odor, livestock and feedlot odor, stoves and fireplaces, and outdoor fire pits, campfires, and fireplaces) are not very problematic. Agricultural dust and burning, transportation emissions or exhaust, and industry fumes are rated the most problematic, on average, followed by lagoon odor and livestock and feedlot odor.
- Of respondents who indicated various outdoor air quality factors are problematic:
 - Half of respondents indicated that industry fumes, lagoon odor, transportation emissions or exhaust, and livestock or feedlot odor are high priorities.
 - Respondents indicated that agricultural dust and burning have affected a household member's health the most, followed by stoves and fireplaces.

Indoor Environmental Quality

- Overall, respondents indicated that the various indoor environmental quality factors (i.e., environmental tobacco smoke, mold, asbestos, carbon monoxide, radon, and lead) are not very problematic. Environmental tobacco smoke and mold are considered more problematic than the other factors.
- Of respondents who indicated environmental quality factors are problematic:
 - The majority of respondents indicated all indoor issues (i.e., environmental tobacco smoke, carbon monoxide, lead, asbestos, mold, and radon) are a high priority.
 - Respondents indicated that environmental tobacco smoke and mold have affected a household member's health the most.

Public Health Nuisances

- Among the various public health nuisances (i.e., mosquitoes and other insects, meth labs, garbage/junk houses, improper disposal of waste, animals/rodents, and illegal/open dumps), mosquitoes and meth labs are considered the most problematic.
- Of respondents who indicated various public health nuisances are problematic:
 - The majority of respondents indicated that meth labs, improper disposal of hazardous waste, illegal/open dumps, mosquitoes and other insects, and garbage/junk houses are a high priority.
 - Respondents indicated public health nuisances have not had much of an impact on a household member's health.
- Overall, the vast majority of respondents indicated their community has a collection site for household hazardous waste.
- Of respondents who indicated their community has a collection site for household hazardous waste:
 - The vast majority indicated the hours are convenient.
 - Half of respondents dispose of household hazardous waste at that site at least some of the time, while four in 10 respondents dispose of waste at that site all of the time.

Recreational Water

- Overall, respondents indicated that the various recreational water issues (i.e., agricultural runoff, fertilizer runoff, industry runoff, improper sewage disposal, overuse of recreational water by campers and boaters, lakes and swimming beaches, and public pools and spas) are not very problematic. Agricultural runoff and fertilizer runoff are considered the most problematic.
- Of respondents who indicated various recreational water issues are problematic:
 - The majority of respondents indicated agricultural runoff, lakes and swimming beaches, industry runoff, improper sewage disposal, and fertilizer runoff are a high priority.
 - Respondents indicated recreational water issues have not had much of an impact on a household member's health.

Drinking Water

- Overall, respondents indicated that the various drinking water issues (i.e., abandoned wells that are not sealed, contaminated PUBLIC drinking water, and contaminated PRIVATE drinking water) are not very problematic.
- Of respondents who indicated various drinking water issues are problematic:
 - The majority of respondents indicated all drinking water issues are a high priority.
 - Respondents indicated drinking water issues have not had much of an impact on a household member's health.

Food Protection

- Overall, respondents indicated that food and safety standards for grocery and convenience stores, delis, and meat markets; food in restaurants and bars; and community events are well addressed.
- Of respondents who indicated various food and safety standards are NOT well addressed:
 - Half of respondents indicated food in grocery and convenience stores, delis, and meat markets and in restaurants and bars is a high priority. Four in 10 respondents indicated food prepared for and served at community events is a high priority.
 - Respondents indicated that poor food and safety standards have not had much of an impact on a household member's health; poor standards for restaurants and bars have had a larger impact on a household member's health than poor standards for grocery stores and community events.

Comparison of Environmental Health Issues

- On average, mosquitoes and other insects are considered the most problematic environmental health issue, followed by meth labs. Agricultural runoff and environmental tobacco smoke are considered the next most problematic overall.

EXECUTIVE SUMMARY (Continued)

- Of respondents who said that various environmental health issues are problematic:
 - Meth labs are considered problematic, on average, and they are rated as a high priority by the vast majority of respondents who see them as a problem. Though contaminated PUBLIC drinking water and contaminated PRIVATE drinking water do not rate as big problems, on average, more than three-fourths of respondents who see them as problematic said they are a high priority. Environmental tobacco smoke is also considered a high priority by three-fourths of respondents who see it as a problem.
 - On average, environmental tobacco smoke, which is considered problematic and is considered a high priority, has affected the health of a household member the most out of all the environmental health issues. Mold and agricultural dust and burning have had the next greatest effects on the health of a household member. Food in restaurants and bars is considered to be fairly well addressed and less than half of respondents who said it is *not* well addressed rate it as a high priority. However, it has had the next greatest effect on the health of a household member. Meth labs, which are considered to be among the most problematic and among the highest priority of the environmental health issues, have not had much of an effect on a household member's health.

Emergency Preparedness

- Overall, respondents indicated that they are not very worried about the various threatening emergencies or disasters (i.e., natural disasters, disease outbreak, terrorism, household emergencies, and chemical spills).
- The majority of respondents indicated that in the event of a threatening emergency or disaster, they would be alerted to, or get information about, the emergency or disaster mostly through television, followed by battery-operated radio, word of mouth by neighbors, and sirens.
- On average, respondents are confident that their community or area can respond to a large-scale disaster or emergency; one-fourth are very confident.
- On average, respondents indicated that their household is moderately prepared in the event of an emergency or disaster; one in 10 respondents indicated they are very prepared, while a similar proportion indicated they are not at all prepared.
- Of respondents who are NOT well prepared for an emergency or disaster:
 - On average, they are not very likely to take necessary steps to prepare in the next three months; however, one in 10 indicated they are very likely to take the necessary steps.
- Of respondents who are NOT well prepared for an emergency or disaster and are NOT likely to prepare for an emergency or disaster within the next three months:
 - Three in 10 indicated that they have not had time to prepare and that they do not think it is important; two in 10 indicated they do not know how to put an emergency plan and supplies together.
 - One-third indicated there are other barriers to preparing for an emergency or disaster, including respondents who just didn't think about it or who aren't worried/scared enough about it.
 - On average, they are moderately likely to overcome the barriers. One in 10 is very likely, while two in 10 are not at all likely to overcome the barriers.
- While the opinions of others (i.e., emergency personnel, media, and family members or friends) moderately influence the respondent's decision about emergency preparedness, emergency personnel are most influential overall.

EXECUTIVE SUMMARY (Continued)

- On average, respondents indicated that an emergency or natural disaster occurring in their community is unlikely; one-fourth indicated it is not at all likely.

Demographics

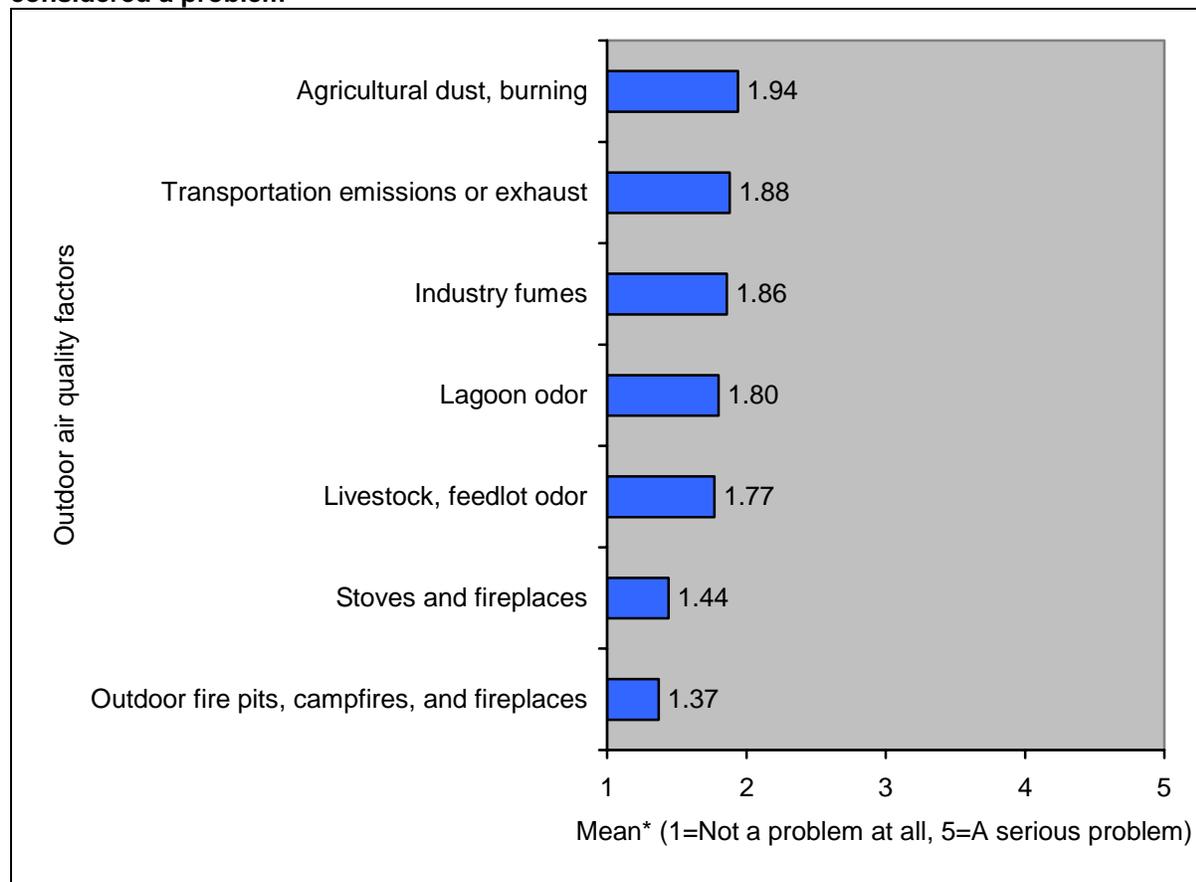
- Overall, one-third of respondents are 65 years of age or older; one in 10 are under the age of 35.
- Overall, one-third of respondents are, at most, a high school graduate (or have a GED); one-third have a college degree or additional education.
- Overall, more than half of respondents have an annual household income of less than \$50,000 before taxes; four in 10 respondents have an income of \$50,000 or more.
- The majority of respondents live inside the city limits.
- Half of respondents live in a two-person household, while one-third live in a household with three or more people.
- Overall, the majority of respondents do not have children younger than 18 living in their household.
- The majority of respondents indicated television is the best way that organizations can provide educational material and information about environmental health problems and disaster preparedness, followed by regular mail, local newspaper, radio, personal contact, community events, Internet, and email.
- Two-thirds of respondents are female.

SURVEY RESULTS

OUTDOOR AIR QUALITY

- Overall, respondents indicated that the various outdoor air quality factors are not very problematic. Agricultural dust and burning, transportation emissions or exhaust, and industry fumes have the highest mean ratings (means=1.94, 1.88, and 1.86, respectively), followed by lagoon odor (mean=1.80) and livestock and feedlot odor (mean=1.77).
- Respondents are least concerned about stoves and fireplaces (mean=1.44) and outdoor fire pits, campfires, and fireplaces (mean=1.37).
- See Appendix Table 1 for distributions overall and for each of the eight counties.

Figure 1. Degree that environmental health factors relating to OUTDOOR AIR QUALITY are considered a problem

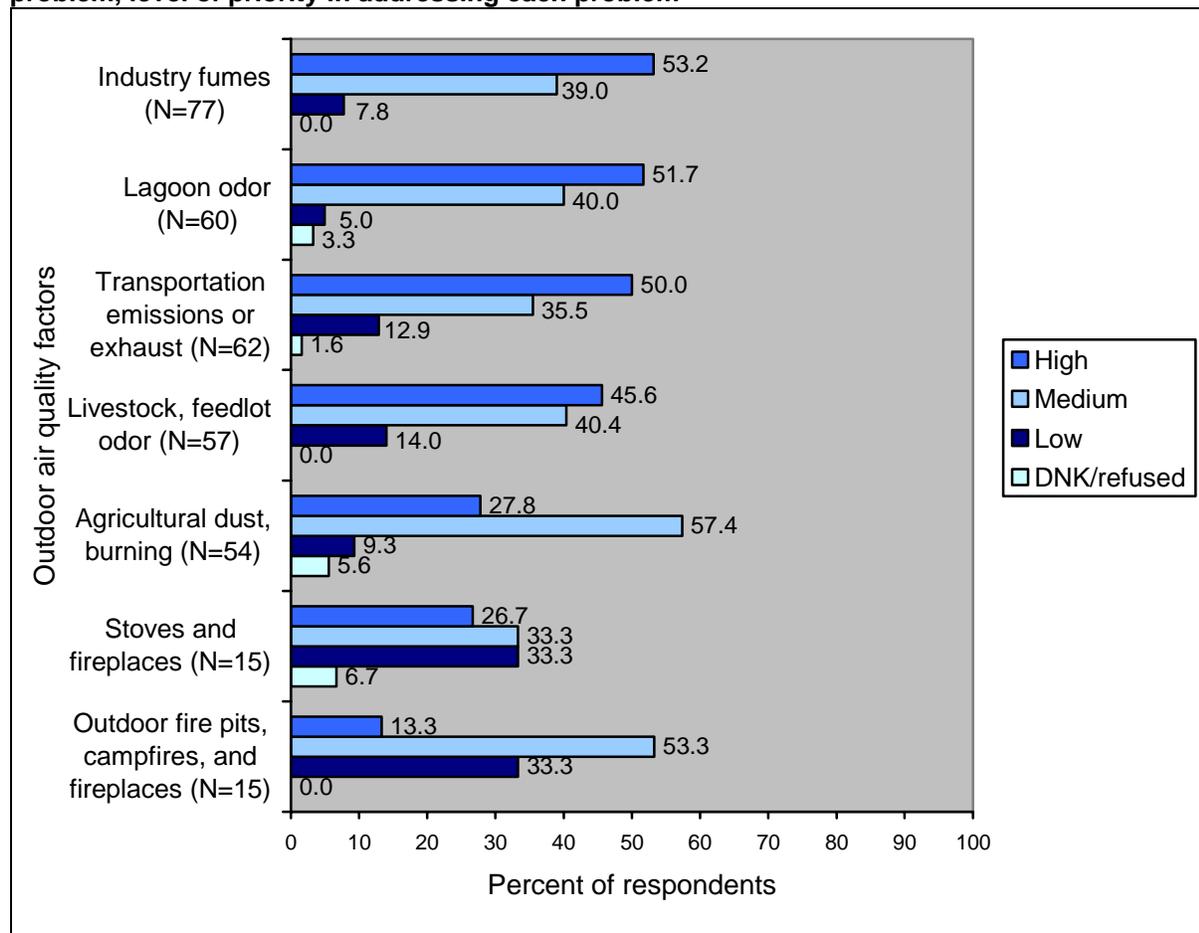


N=606

*Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

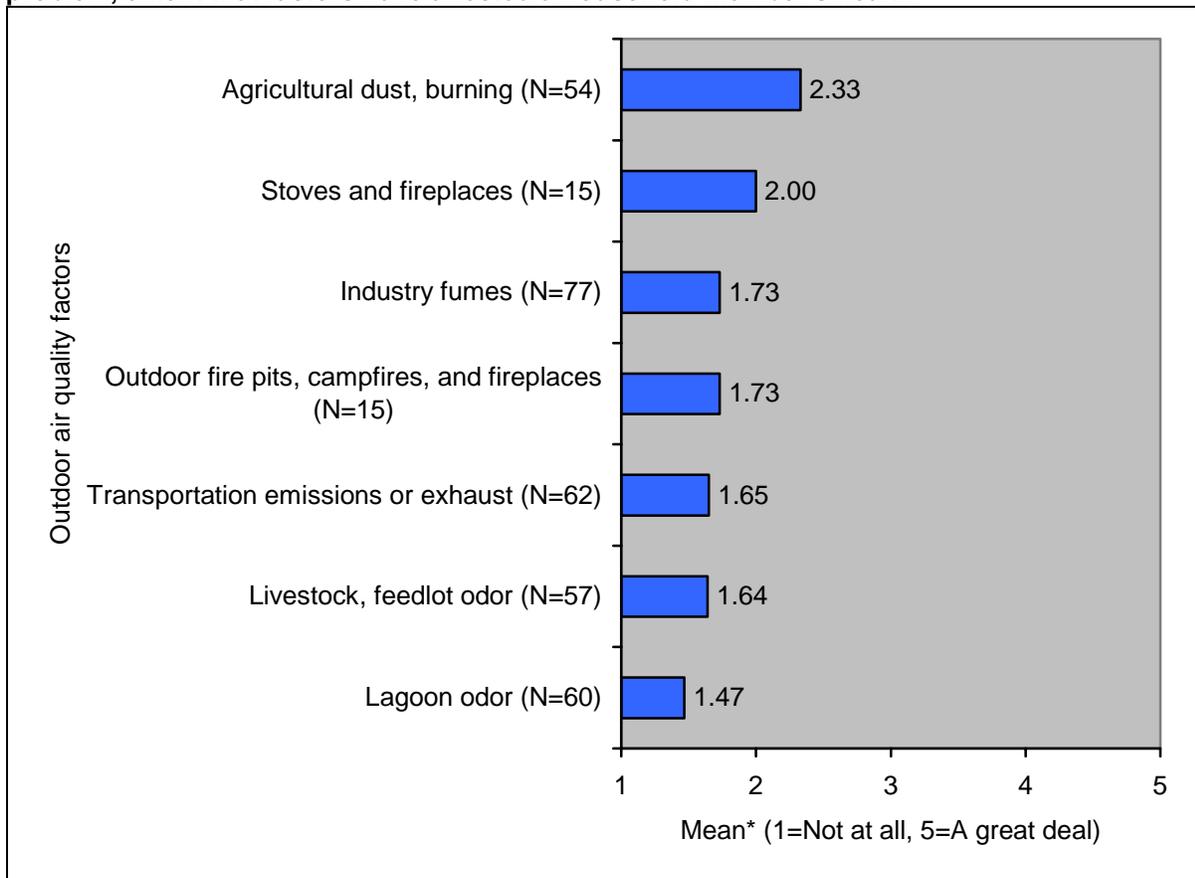
- Of respondents who indicated that various outdoor air quality factors are problematic:
 - Approximately half of respondents considered the following factors to be a high priority: industry fumes (53.2 percent), lagoon odor (51.7 percent), transportation emissions or exhaust (50.0 percent), and livestock and feedlot odor (45.6 percent).
 - More than half of respondents considered the following factors to be a medium priority: agricultural dust and burning (57.4 percent) and outdoor fire pits, campfires, and fireplaces (53.3 percent).
 - Equal proportions of respondents indicated stoves and fireplaces are a medium priority (33.3 percent) and a low priority (33.3 percent).
- See Appendix Table 2 for distributions for each of the eight counties.

Figure 2. Of respondents who said there are OUTDOOR AIR QUALITY factors they consider a problem, level of priority in addressing each problem



- Of respondents who said that various outdoor air quality factors are problematic:
 - Agricultural dust and burning (mean=2.33) and stoves and fireplaces (mean=2.00) have affected a household member's health the most, followed by industry fumes (mean=1.73) and outdoor fire pits, campfires, and fireplaces (mean=1.73).
 - Respondents indicated that transportation emissions or exhaust (mean=1.65), livestock and feedlot odor (mean=1.64), and lagoon odor (mean=1.47) have affected a household member's health the least.
- See Appendix Table 3 for distributions overall and for each of the eight counties.

Figure 3. Of respondents who said there are OUTDOOR AIR QUALITY factors they consider a problem, extent that factors have affected a household member's health

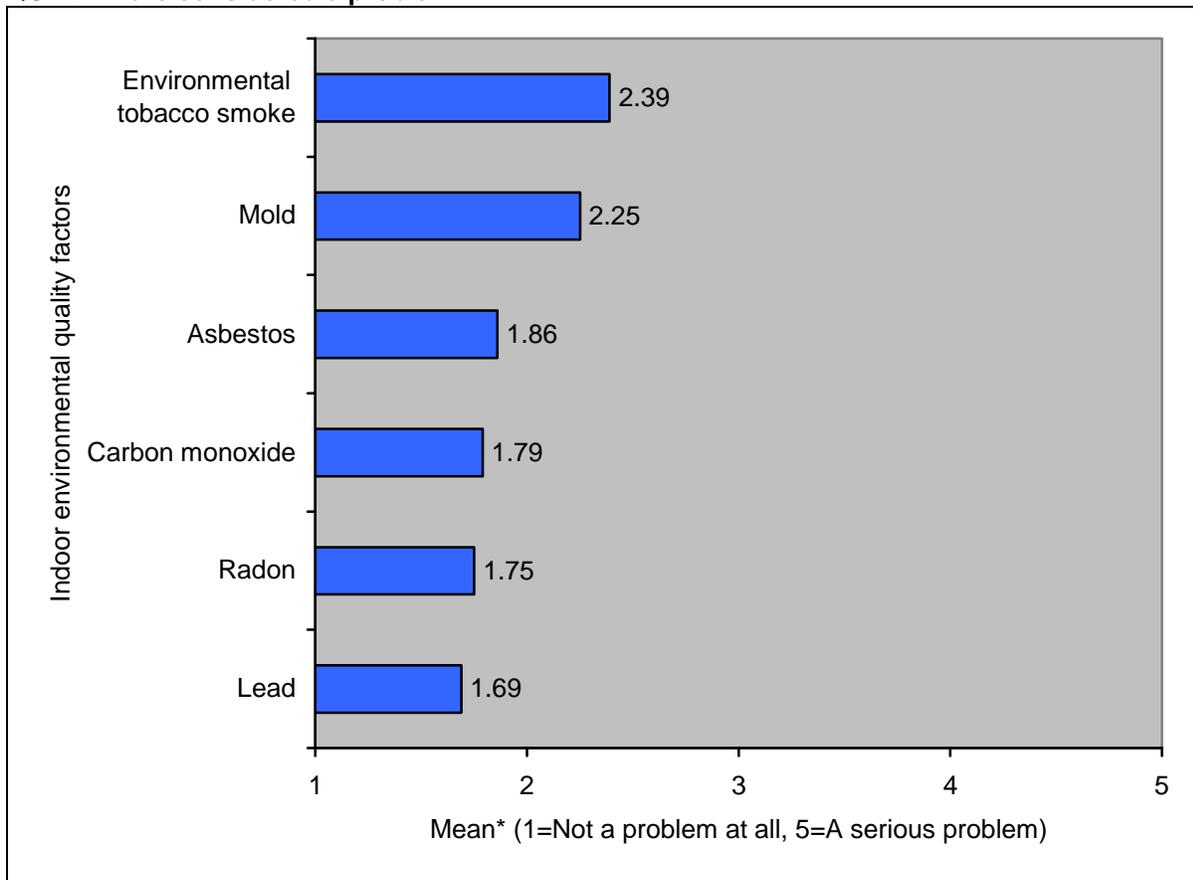


*Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

INDOOR ENVIRONMENTAL QUALITY

- Overall, respondents indicated that the various indoor environmental quality factors are not very problematic. Environmental tobacco smoke (i.e., secondhand smoke) and mold have the highest mean ratings (means=2.39 and 2.25, respectively), followed by asbestos (mean=1.86), carbon monoxide (mean=1.79), and radon (mean=1.75).
- Respondents said lead is the least problematic of all indoor environmental quality factors (mean=1.69).
- See Appendix Table 4 for distributions overall and for each of the eight counties.

Figure 4. Degree that environmental health factors relating to INDOOR ENVIRONMENTAL QUALITY are considered a problem

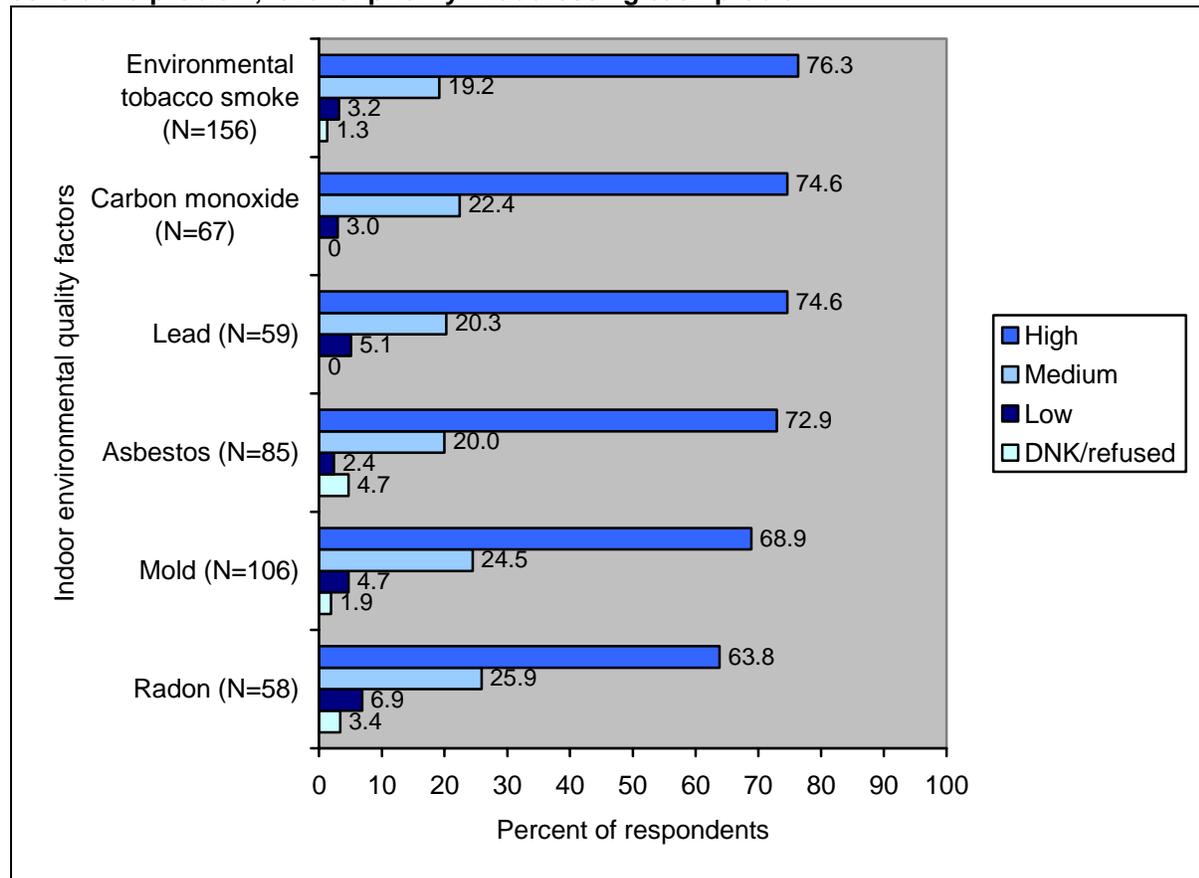


N=606

*Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

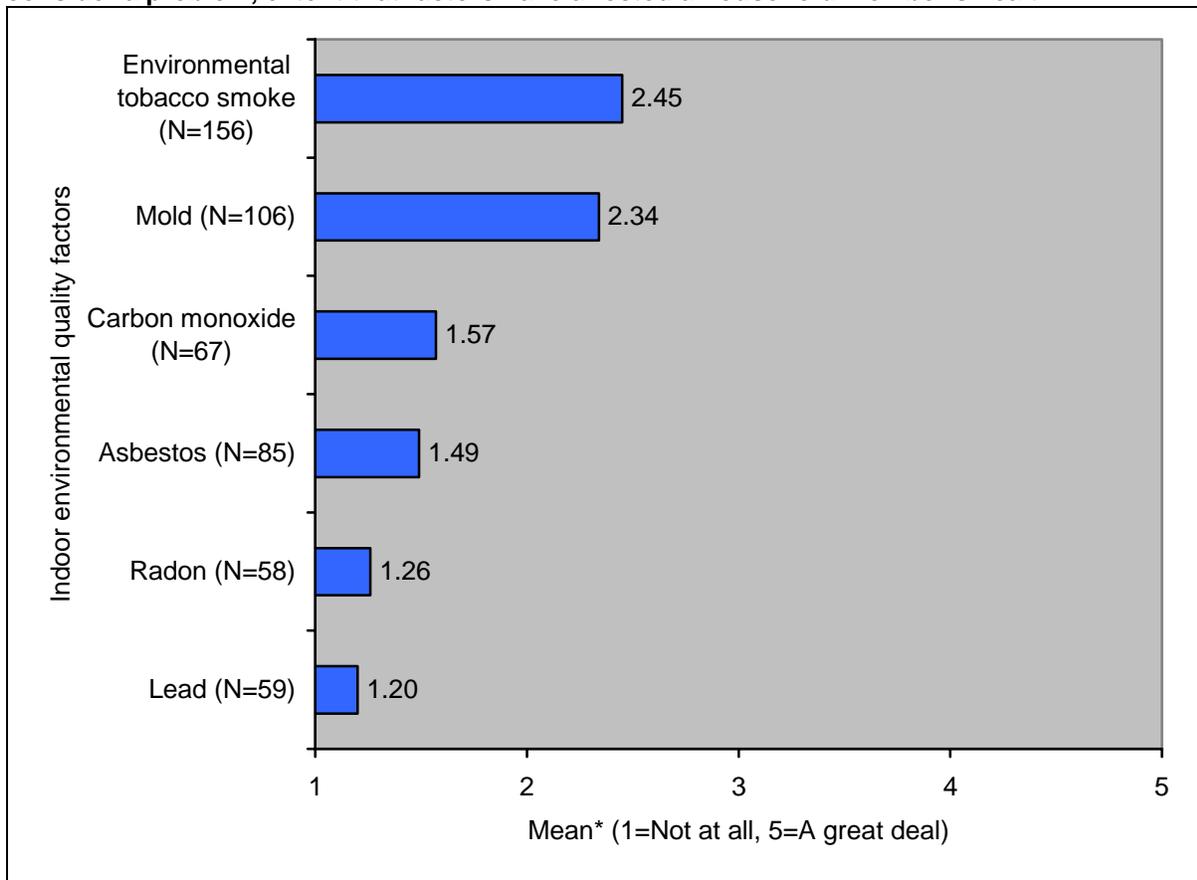
- Of respondents who said that various indoor environmental quality factors are a problem, three-fourths said environmental tobacco smoke (i.e., secondhand smoke) is a high priority (76.3 percent), followed by carbon monoxide, lead, and asbestos (74.6 percent, 74.6 percent, and 72.9 percent, respectively). Approximately two-thirds of respondents said mold and radon are a high priority (68.9 percent and 63.8 percent, respectively).
- See Appendix Table 5 for distributions for each of the eight counties.

Figure 5. Of respondents who said there are INDOOR ENVIRONMENTAL QUALITY factors they consider a problem, level of priority in addressing each problem



- Of respondents who said that various indoor environmental quality factors are a problem:
 - Environmental tobacco smoke (i.e., secondhand smoke) and mold have affected a household member’s health the most (means=2.45 and 2.34, respectively) followed by carbon monoxide (mean=1.57) and asbestos (mean=1.49).
 - Respondents indicated that radon and lead have affected a household member’s health the least (means=1.26 and 1.20, respectively).
- See Appendix Table 6 for distributions overall and for each of the eight counties.

Figure 6. Of respondents who said there are INDOOR ENVIRONMENTAL QUALITY factors they consider a problem, extent that factors have affected a household member’s health

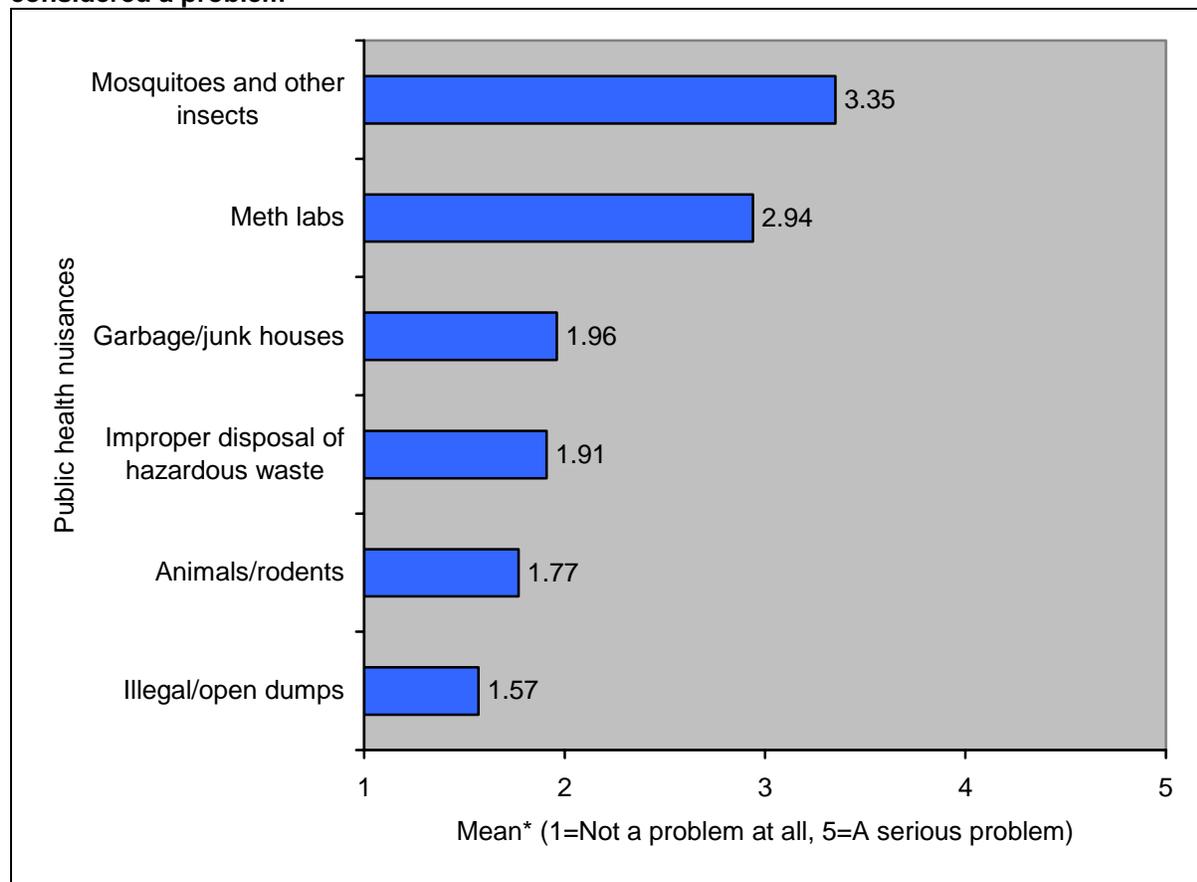


*Means are based on a one to five scale, with one being “not at all” and five being “a great deal.” “DNK/refused” is excluded from the mean.

PUBLIC HEALTH NUISANCES

- Overall, respondents indicated that mosquitoes and other insects are the most problematic of the public health nuisances (mean=3.35); 22.9 percent said they are a serious problem. Respondents also indicated that meth labs are somewhat problematic (mean=2.94); 23.3 percent indicated they are a serious problem.
- Respondents indicated that illegal/open dumps are the least problematic of the public health nuisances (mean=1.57).
- See Appendix Table 7 for distributions overall and for each of the eight counties.

Figure 7. Degree that environmental health factors relating to PUBLIC HEALTH NUISANCES are considered a problem

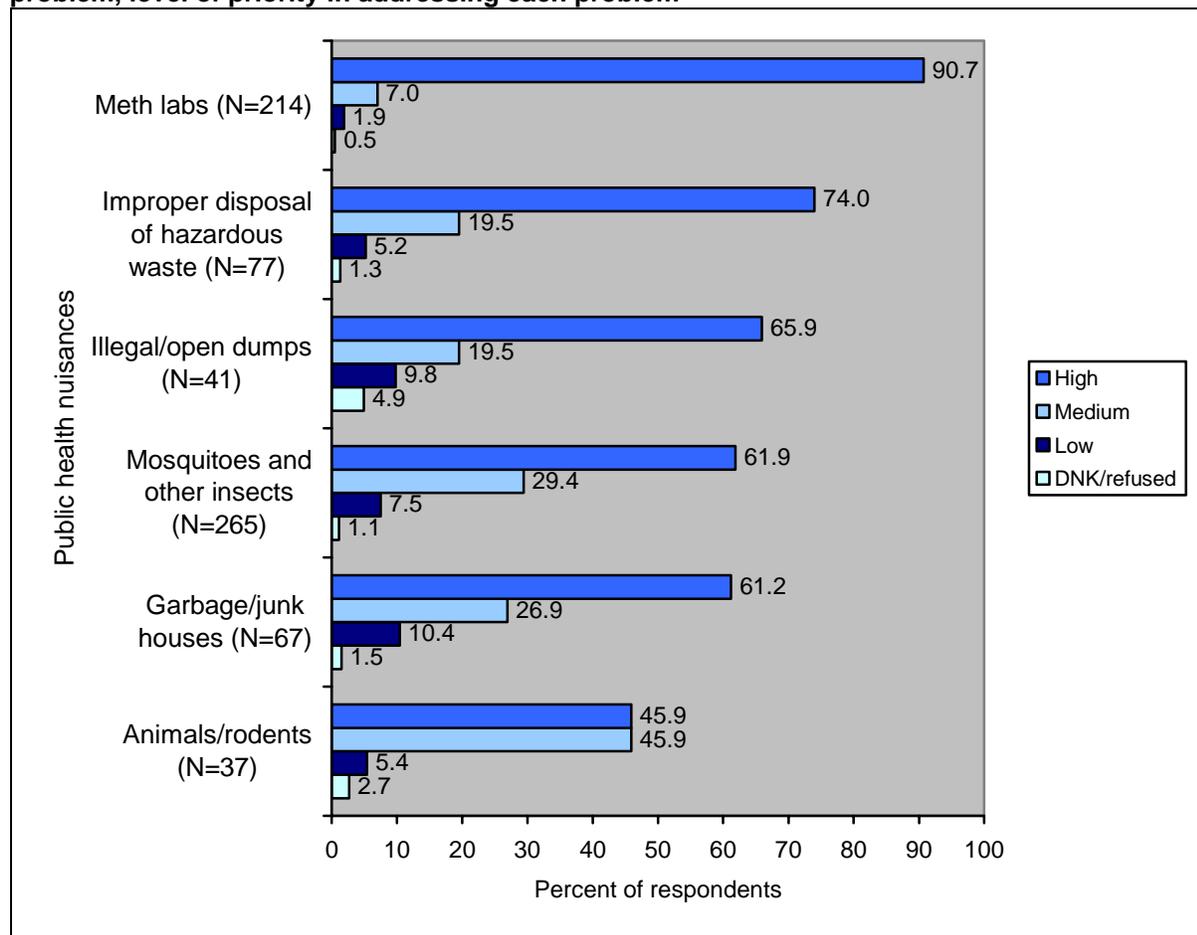


N=606

*Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

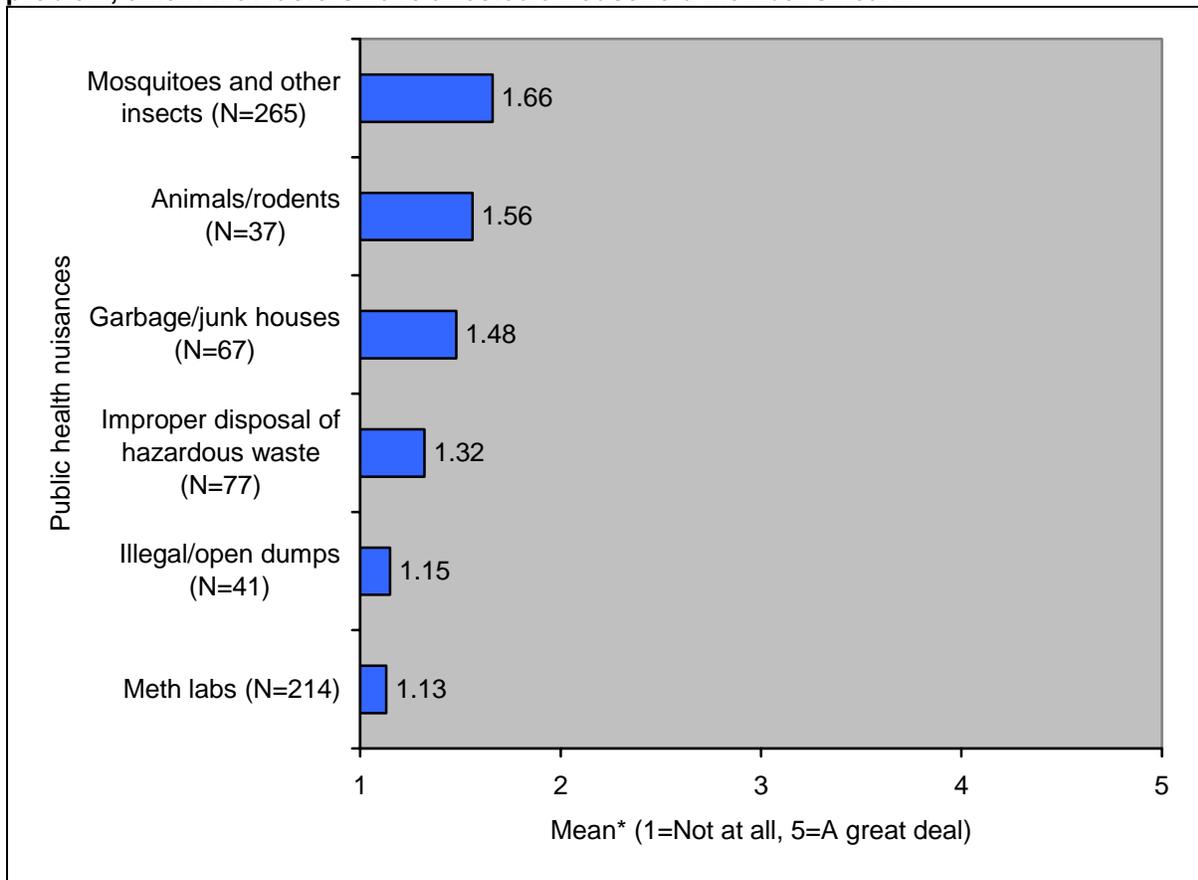
- Of respondents who said that various public health nuisances are problematic, the vast majority indicated that meth labs are a high priority (90.7 percent), followed by improper disposal of hazardous waste (74.0 percent), illegal/open dumps (65.9 percent), mosquitoes and other insects (61.9 percent), and garbage/junk houses (61.2 percent). Equal proportions of respondents indicated that animals/rodents are a high priority (45.9 percent) and a medium priority (45.9 percent).
- See Appendix Table 8 for distributions for each of the eight counties.

Figure 8. Of respondents who said there are PUBLIC HEALTH NUISANCES they consider a problem, level of priority in addressing each problem



- Of respondents who said that various public health nuisances are problematic:
 - Respondents indicated that, overall, the public health nuisance factors have not had much of an impact on a household member’s health. Mosquitoes and other insects have affected a household member’s health the most (mean=1.66), followed by animals/rodents (mean=1.56), garbage/junk houses (mean=1.48), and improper disposal of hazardous waste (mean=1.32).
 - Respondents indicated that illegal/open dumps and meth labs have affected a household member’s health the least (means=1.15 and 1.13, respectively).
- See Appendix Table 9 for distributions overall and for each of the eight counties.

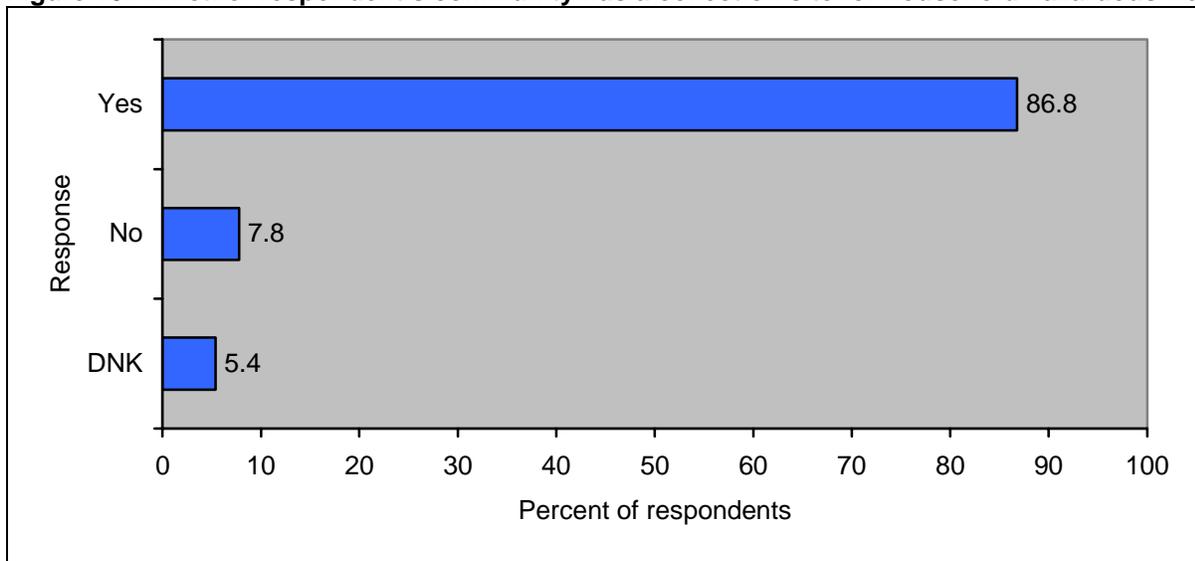
Figure 9. Of respondents who said there are PUBLIC HEALTH NUISANCES they consider a problem, extent that factors have affected a household member’s health



*Means are based on a one to five scale, with one being “not at all” and five being “a great deal.” “DNK/refused” is excluded from the mean.

- Overall, the vast majority of respondents (86.8 percent) indicated that their community has a collection site for household hazardous waste, such as household chemicals, fluorescent light bulbs, batteries, paint, and used motor oil.
- See Appendix Table 10 for distributions for each of the eight counties.

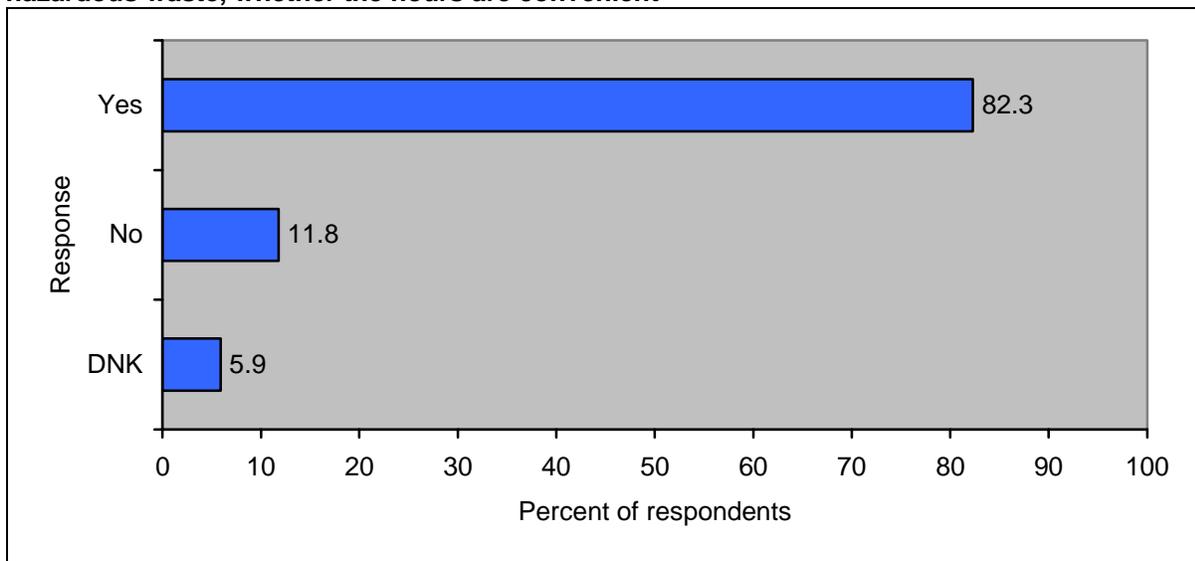
Figure 10. Whether respondent's community has a collection site for household hazardous waste



N=606

- Among respondents who indicated their community has a collection site for household hazardous waste, the majority (82.3 percent) indicated the hours are convenient.
- See Appendix Table 11 for distributions for each of the eight counties.

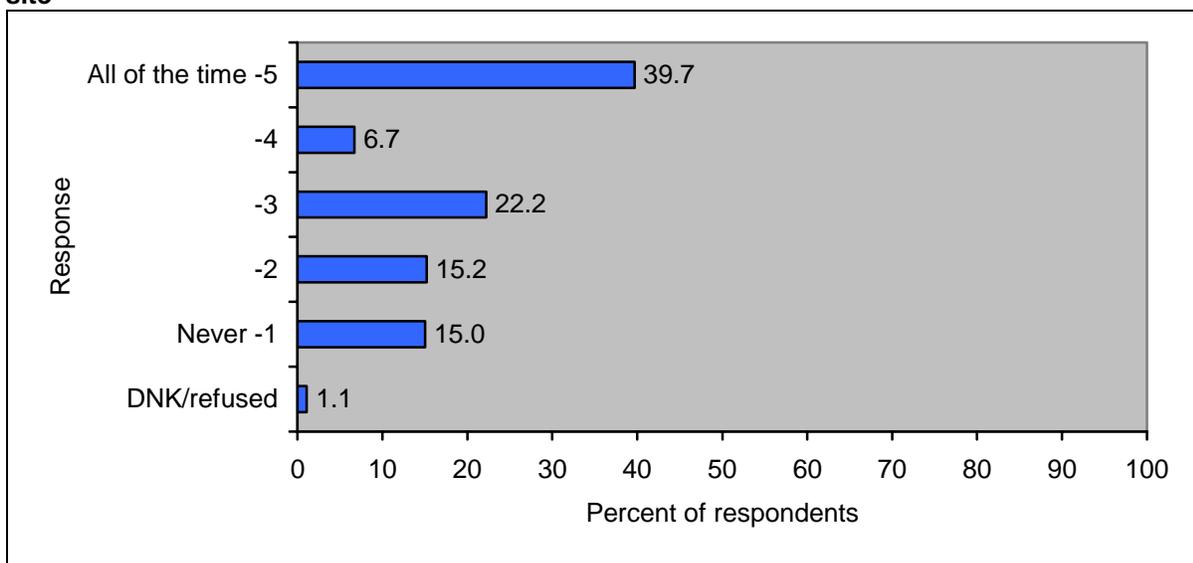
Figure 11. Of respondents who said their community has a collection site for household hazardous waste, whether the hours are convenient



N=526

- Among respondents who indicated their community has a collection site for household hazardous waste:
 - On average, respondents dispose of household hazardous waste at least some of the time at that site (mean=3.44). Four in 10 respondents indicated they dispose of their waste at the site all the time (39.7 percent).
 - Fifteen percent of respondents indicated they never dispose of household hazardous waste at the collection site.
- See Appendix Table 12 for distributions for each of the eight counties.

Figure 12. Of respondents who said their community has a collection site for household hazardous waste, how often respondent disposes of household hazardous waste at the collection site



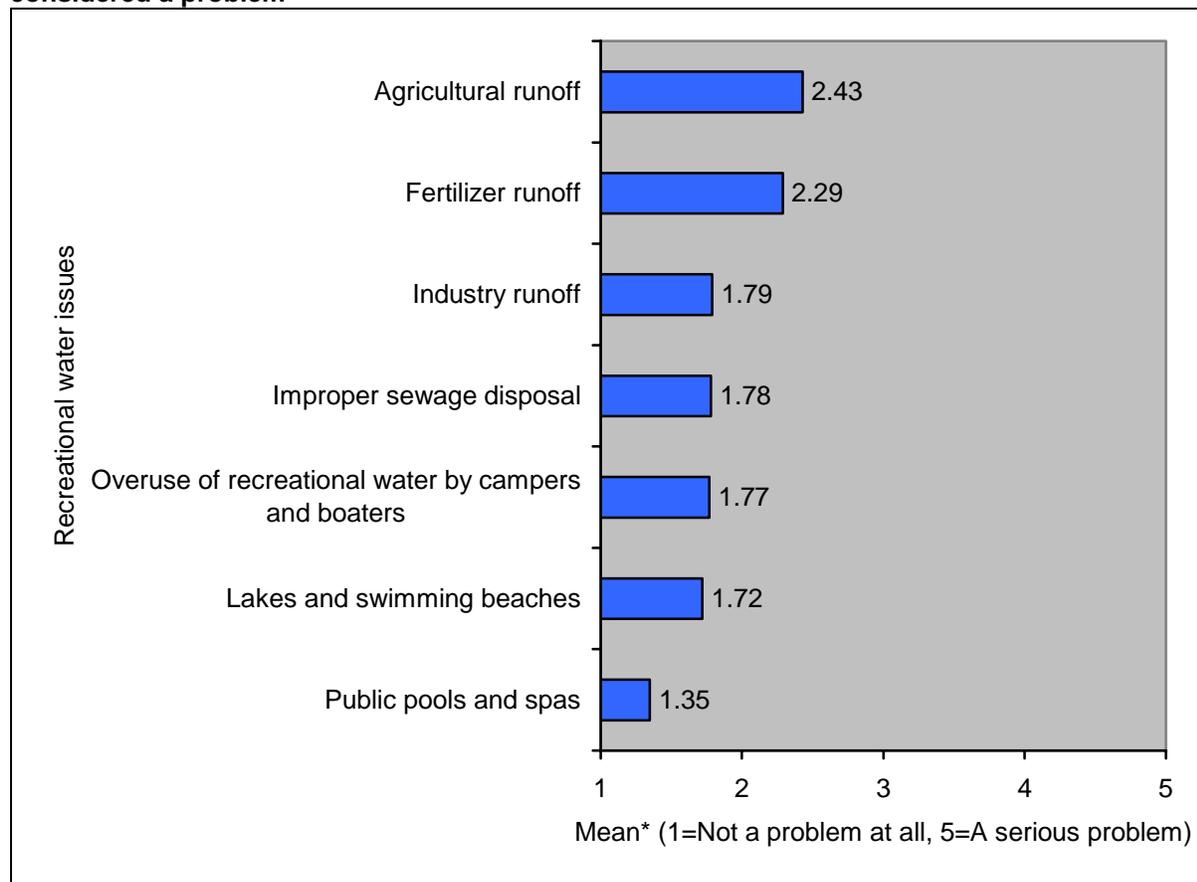
N=526

Mean=3.44. Mean is based on a one to five scale, with one being “never” and five being “all of the time.” “DNK/refused” is excluded from the mean.

RECREATIONAL WATER

- Overall, respondents indicated that the various recreational water issues are not very problematic. Agricultural runoff (e.g., from feedlots and pesticides) and fertilizer runoff have the highest mean ratings (means=2.43 and 2.29, respectively), followed by industry runoff (mean=1.79), improper sewage disposal (mean=1.78), overuse of recreational water by campers and boaters (mean=1.77), and lakes and swimming beaches (mean=1.72).
- Respondents indicated that public pools and spas are the least problematic regarding recreational water (mean=1.35).
- See Appendix Table 13 for distributions overall and for each of the eight counties.

Figure 13. Degree that environmental health factors relating to RECREATIONAL WATER are considered a problem

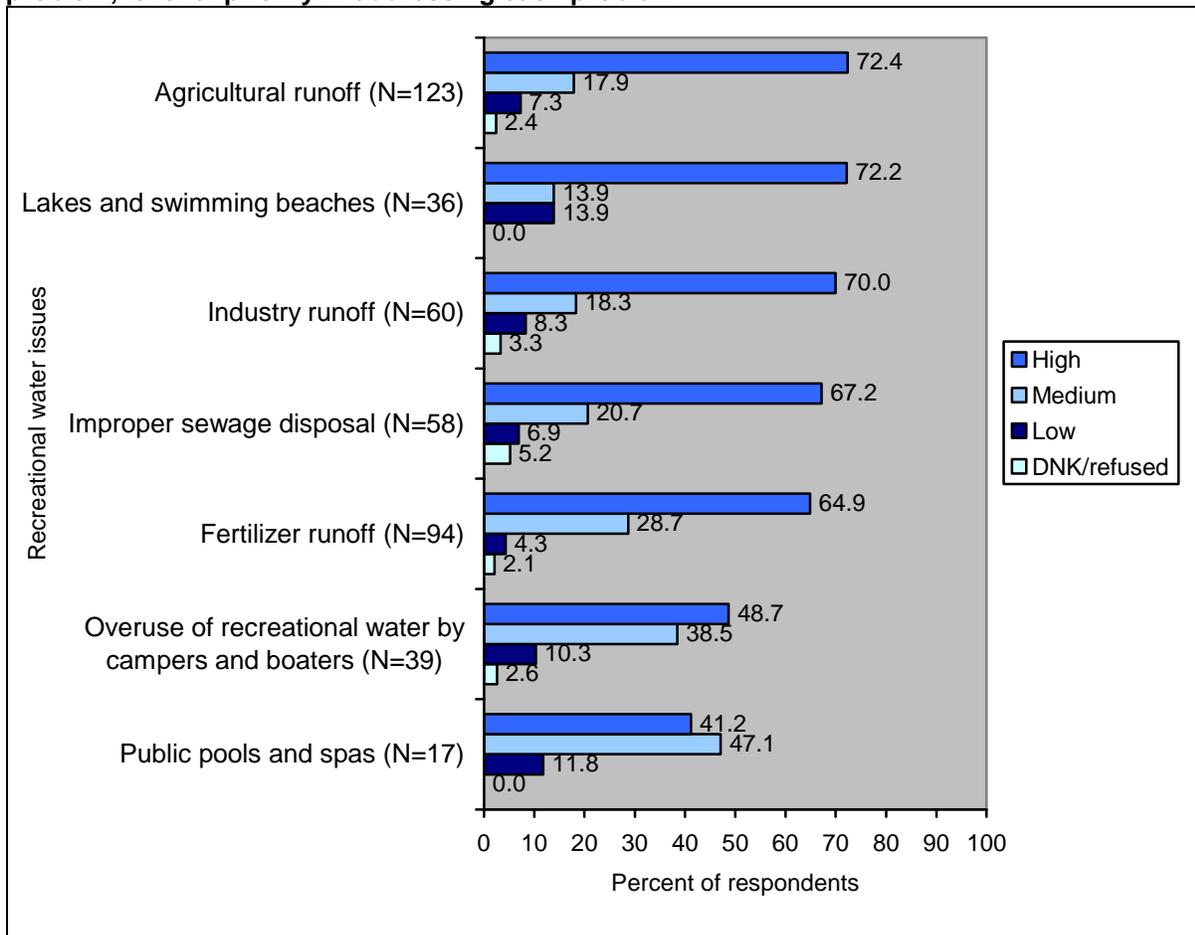


N=606

*Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

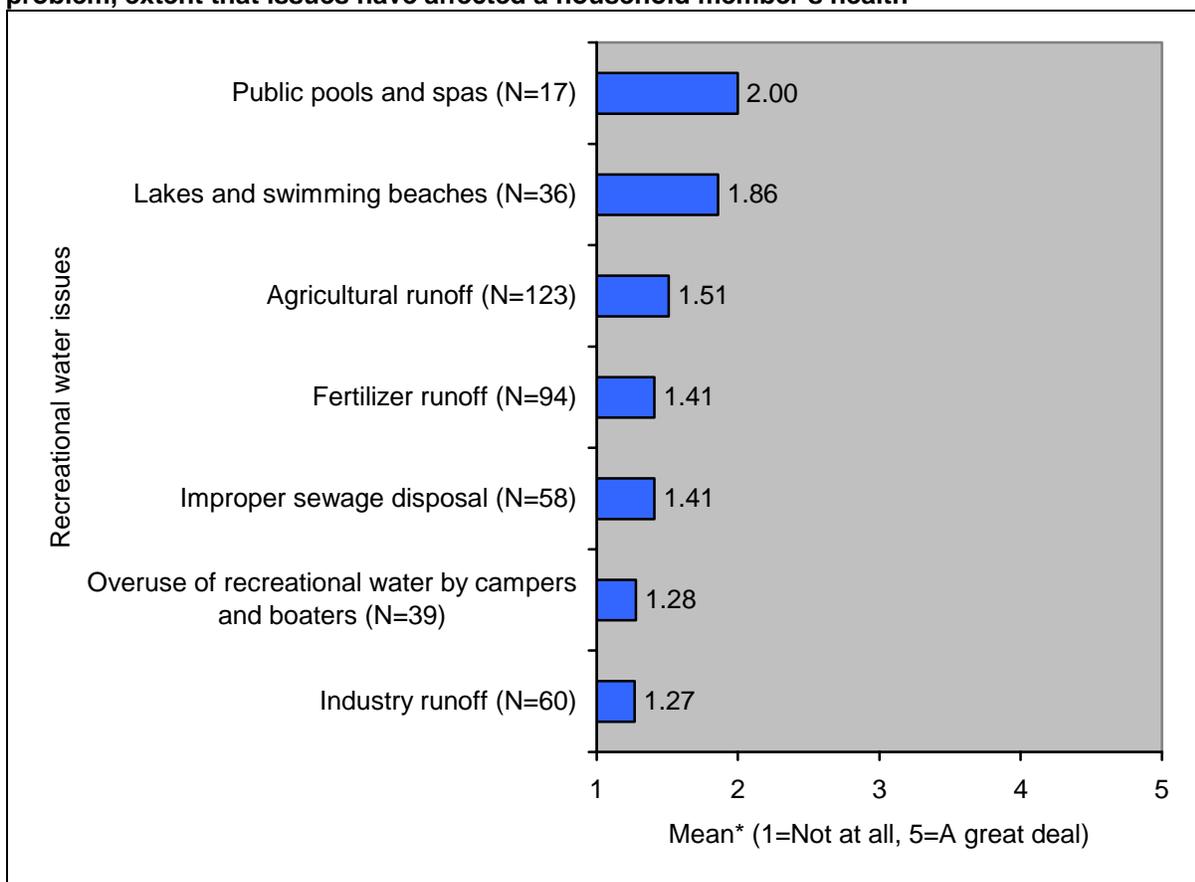
- Of respondents who said that various recreational water issues are problematic:
 - Nearly three-fourths indicated that agricultural runoff (e.g., from feedlots and pesticides) and lakes and swimming beaches are a high priority (72.4 percent and 72.2 percent, respectively), followed by industry runoff (70.0 percent), improper sewage disposal (67.2 percent), fertilizer runoff (64.9 percent), and overuse of recreational water by campers and boaters (48.7 percent).
 - Nearly half of respondents (47.1 percent) indicated that public pools and spas are a medium priority.
- See Appendix Table 14 for distributions for each of the eight counties.

Figure 14. Of respondents who said there are RECREATIONAL WATER issues they consider a problem, level of priority in addressing each problem



- Of respondents who said that various recreational water issues are problematic:
 - Respondents indicated that, overall, the recreational water issues have not had much of an impact on a household member's health. Public pools and spas have affected a household member's health the most (mean=2.00), followed by lakes and swimming beaches (mean=1.86), agricultural runoff (e.g., from feedlots and pesticides) (mean=1.51), fertilizer runoff (mean=1.41), and improper sewage disposal (mean=1.41).
 - Respondents indicated that overuse of recreational water by campers and boaters (mean=1.28) and industry runoff (mean=1.27) have affected a household member's health the least.
- See Appendix Table 15 for distributions overall and for each of the eight counties.

Figure 15. Of respondents who said there are RECREATIONAL WATER issues they consider a problem, extent that issues have affected a household member's health

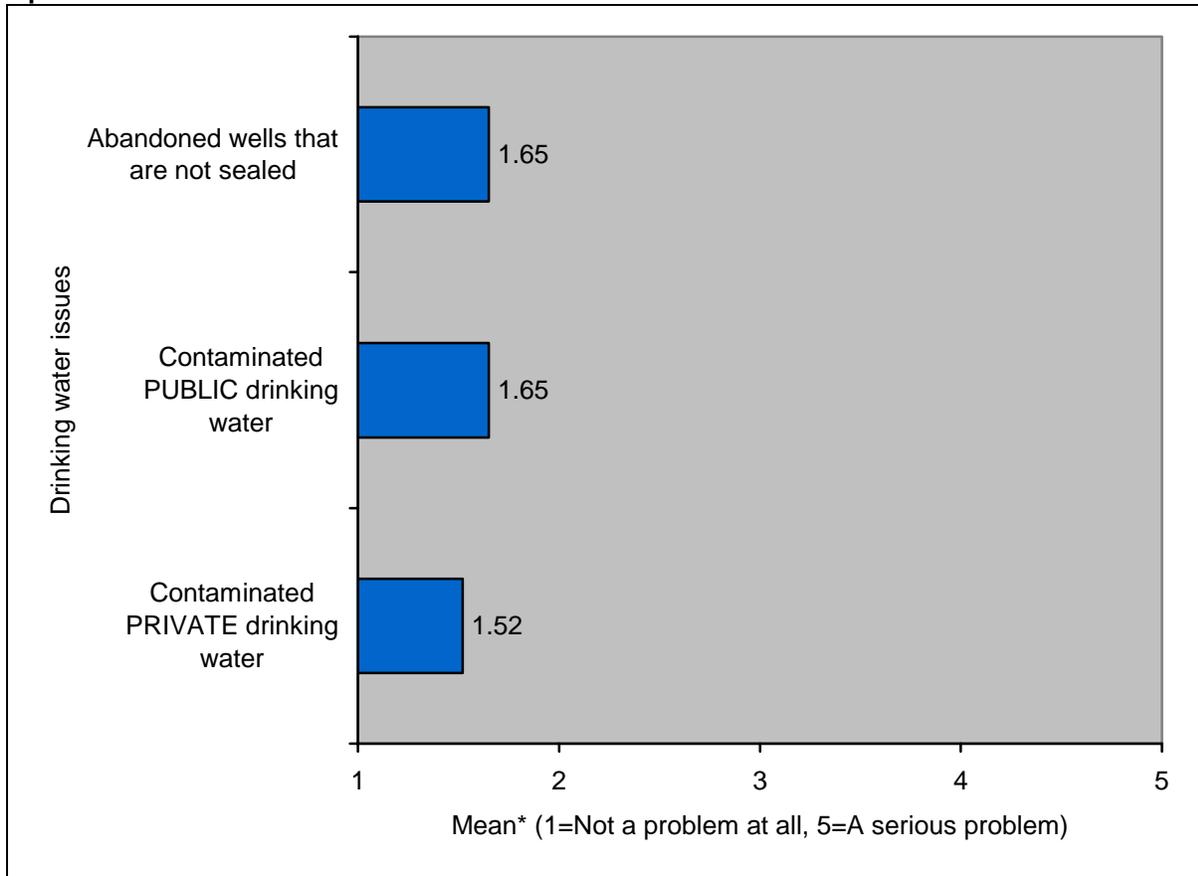


*Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

DRINKING WATER

- Overall, respondents indicated that the various drinking water issues are not very problematic. Abandoned wells that are not sealed (mean=1.65) and contaminated PUBLIC drinking water (mean=1.65) have the highest mean ratings.
- Respondents indicated that contaminated PRIVATE drinking water is the least problematic drinking water issue (mean=1.52).
- See Appendix Table 16 for distributions overall and for each of the eight counties.

Figure 16. Degree that environmental health factors relating to DRINKING WATER are considered a problem

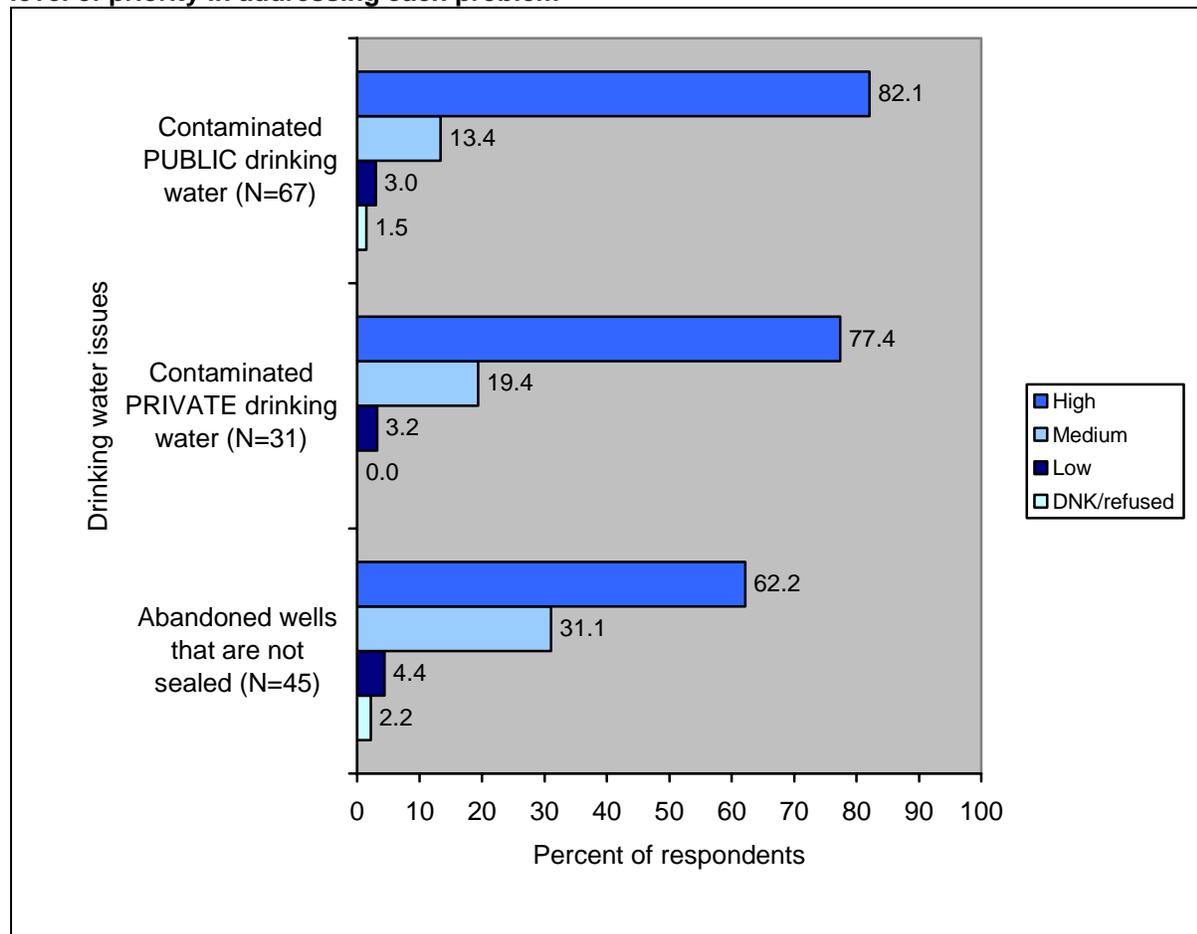


N=606

*Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

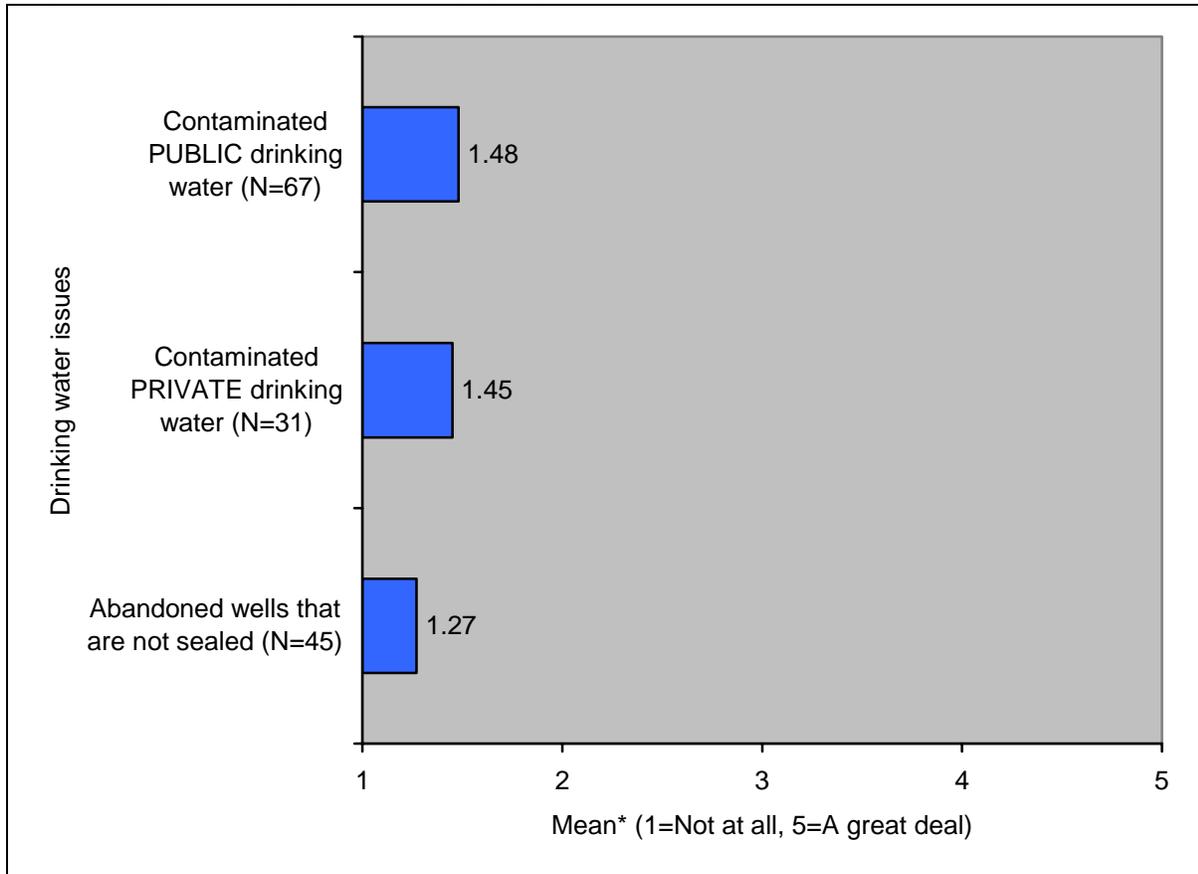
- Of respondents who said that various drinking water issues are problematic, the vast majority indicated that contaminated PUBLIC drinking water is a high priority (82.1 percent), followed by contaminated PRIVATE drinking water (77.4 percent) and abandoned wells that are not sealed (62.2 percent).
- See Appendix Table 17 for distributions for each of the eight counties.

Figure 17. Of respondents who said there are DRINKING WATER issues they consider a problem, level of priority in addressing each problem



- Of respondents who said that various drinking water issues are problematic:
 - Respondents indicated that, overall, the drinking water issues have not had much of an impact on a household member's health. Contaminated PUBLIC drinking water has affected a household member's health the most (mean=1.48), followed by contaminated PRIVATE drinking water (mean=1.45).
 - Respondents indicated that abandoned wells that are not sealed have affected a household member's health the least (mean=1.27).
- See Appendix Table 18 for distributions overall and for each of the eight counties.

Figure 18. Of respondents who said there are DRINKING WATER issues they consider a problem, extent that issues have affected a household member's health

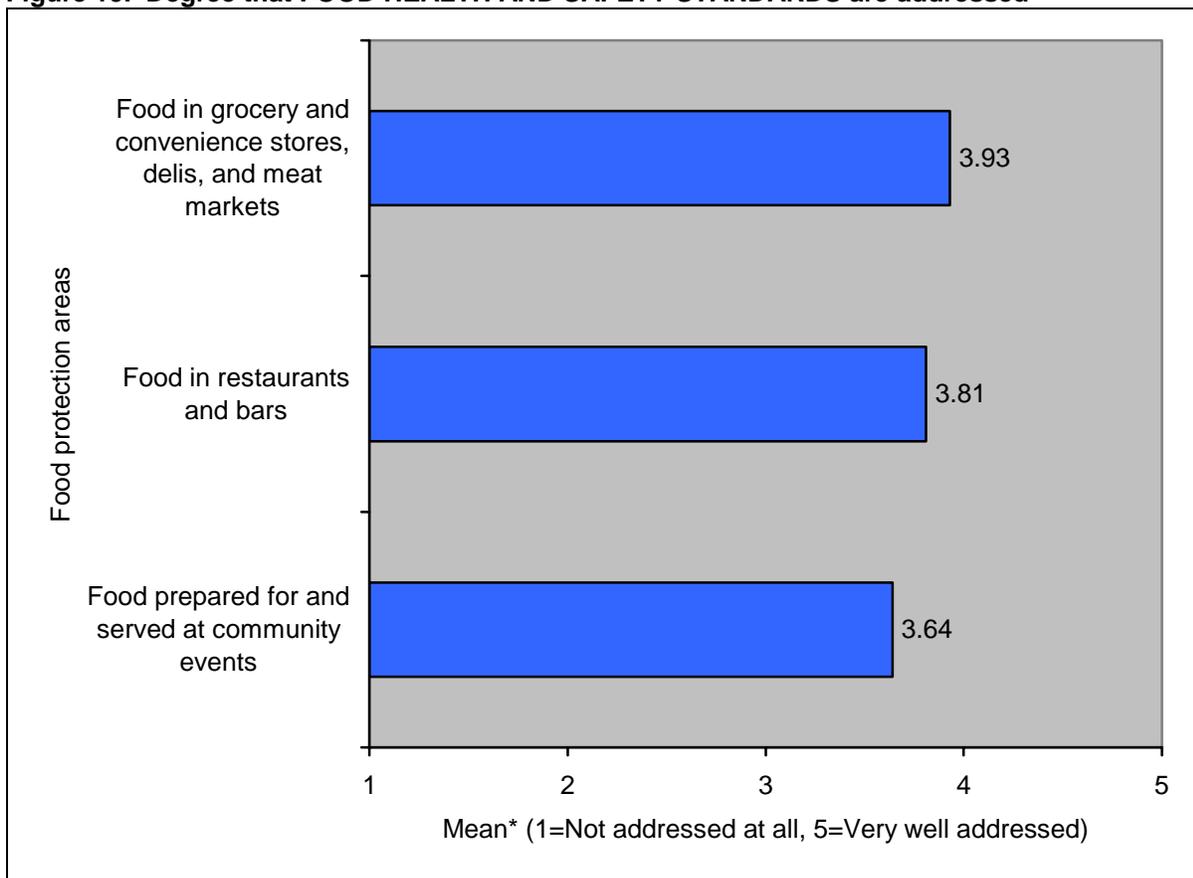


*Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

FOOD PROTECTION

- Overall, respondents indicated that food and safety standards are well addressed for food in grocery and convenience stores, delis, and meat markets (mean=3.93), food in restaurants and bars (mean=3.81), and food prepared for and served at community events (i.e., potlucks and church dinners) (mean=3.64).
- See Appendix Table 19 for distributions overall and for each of the eight counties.

Figure 19. Degree that FOOD HEALTH AND SAFETY STANDARDS are addressed

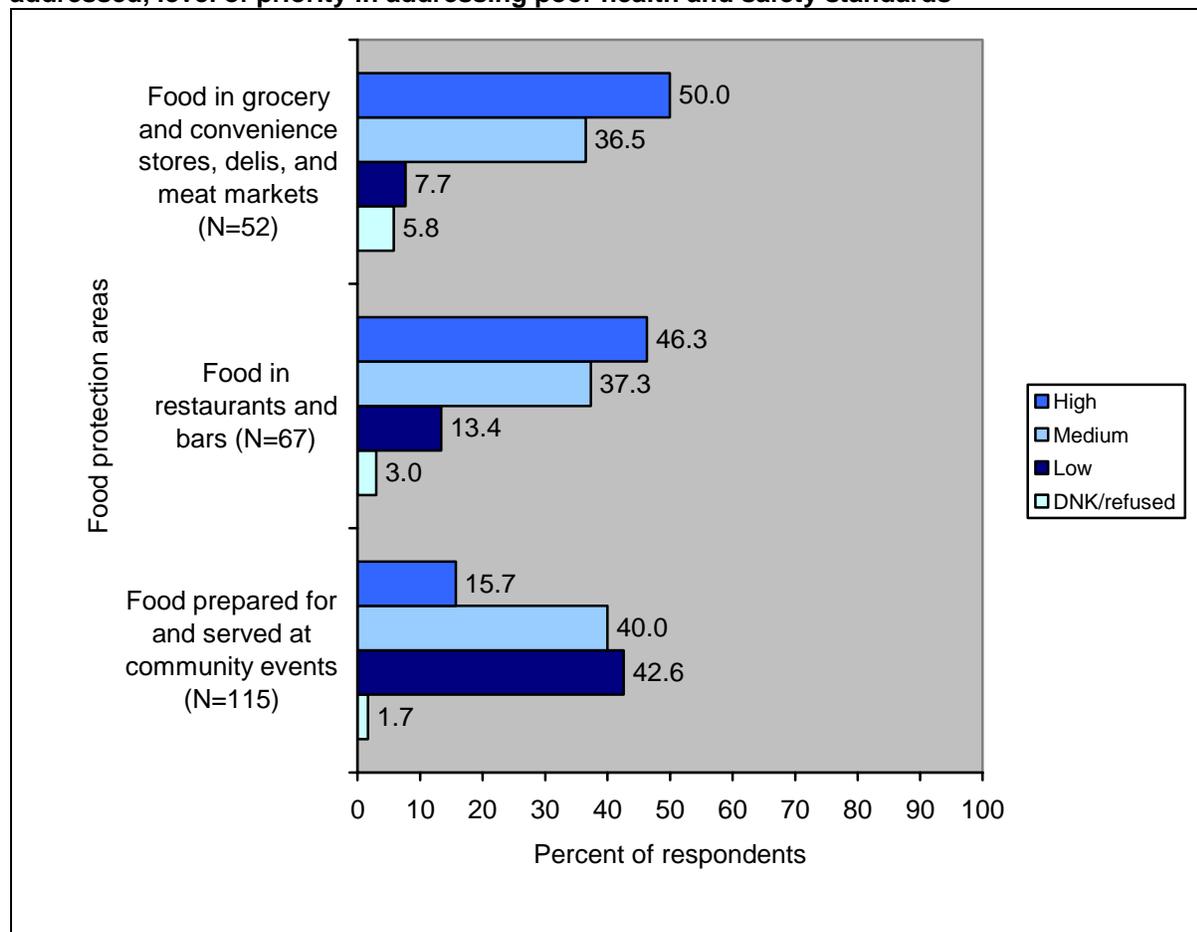


N=606

*Means are based on a one to five scale, with one being "not addressed at all" and five being "very well addressed." "DNK/refused" is excluded from the mean.

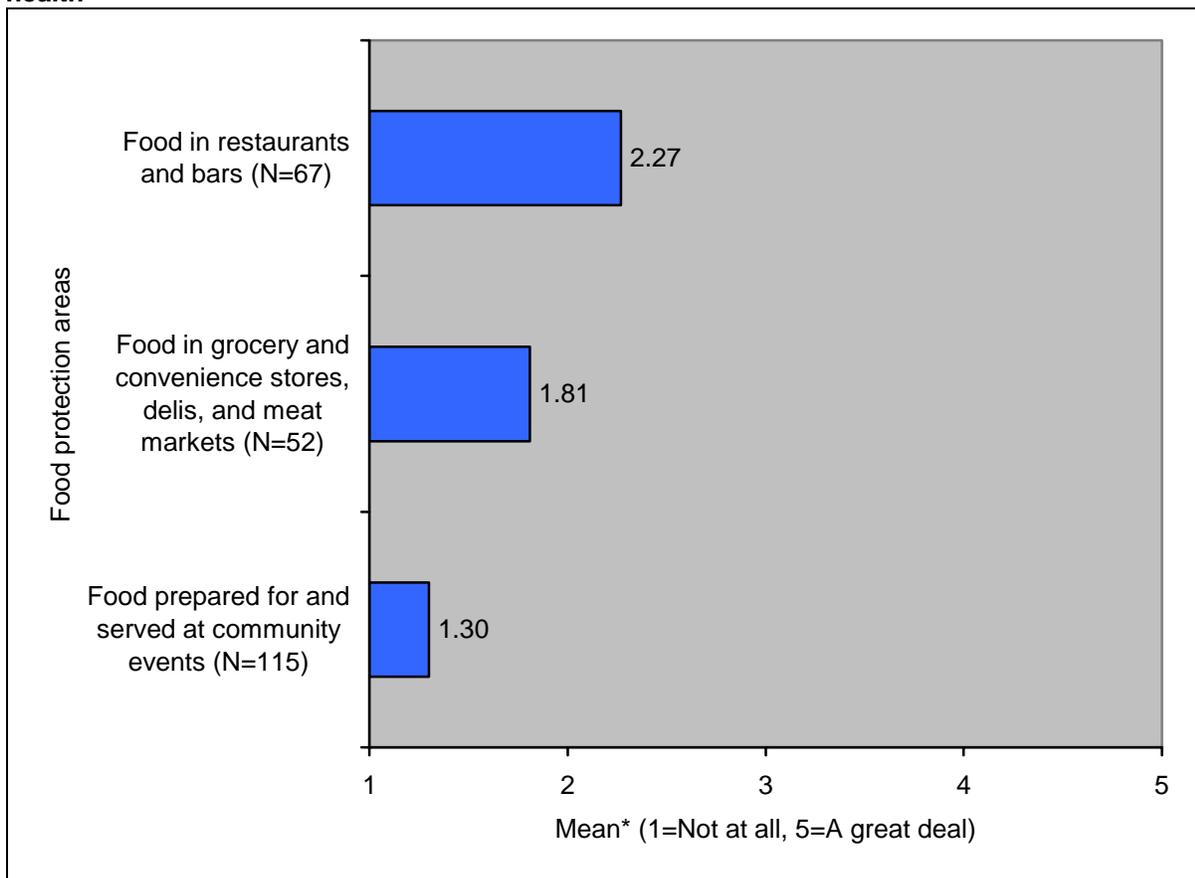
- Of respondents who said food and safety standards are not well addressed in certain areas:
 - Half of respondents indicated that food in grocery and convenience stores, delis, and meat markets is a high priority (50.0 percent), followed by food in restaurants and bars (46.3 percent).
 - Four in 10 respondents indicated that food prepared for and served at community events (i.e., potlucks and church dinners) is a medium priority (40.0 percent); a similar proportion indicated it is a low priority (42.6 percent).
- See Appendix Table 20 for distributions for each of the eight counties.

Figure 20. Of respondents who said FOOD HEALTH AND SAFETY STANDARDS are not well addressed, level of priority in addressing poor health and safety standards



- Of respondents who said food and safety standards are not well addressed in certain areas:
 - Respondents indicated that, overall, poor food and safety standards have not had much of an impact on a household member's health. Poor food and safety standards for food in restaurants and bars have affected a household member's health the most (mean=2.27).
 - Respondents indicated that poor food and safety standards for food in grocery and convenience stores, delis, and meat markets (mean=1.81) and for food prepared for and served at community events (i.e., potlucks and church dinners) (mean=1.30) have affected a household member's health the least.
- See Appendix Table 21 for distributions overall and for each of the eight counties.

Figure 21. Of respondents who said FOOD HEALTH AND SAFETY STANDARDS are not well addressed, extent that poor health and safety standards have affected a household member's health



*Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

COMPARISON OF ENVIRONMENTAL HEALTH ISSUES

- On average, mosquitoes and other insects are considered the most problematic environmental health issue (mean=3.35), followed by meth labs (mean=2.94). Agricultural runoff (mean=2.43) and environmental tobacco smoke (mean=2.39) are considered the next most problematic overall.
- Public pools and spas are considered the least problematic environmental health issue (mean=1.35). Outdoor fire pits, campfires, and fireplaces (mean=1.37) and stoves and fireplaces (mean=1.44) are also rated as not being much of a problem.
- See Appendix Tables 1, 4, 7, 13, and 16 for distributions overall and for each of the eight counties.

Table 1. Degree that all environmental health issues are considered a problem

Topic	Issue	Mean*
Public Health Nuisances	Mosquitoes and other insects	3.35
Public Health Nuisances	Meth labs	2.94
Recreational Water	Agricultural runoff	2.43
Indoor Environmental Quality	Environmental tobacco smoke	2.39
Recreational Water	Fertilizer runoff	2.29
Indoor Environmental Quality	Mold	2.25
Public Health Nuisances	Garbage/junk houses	1.96
Outdoor Air Quality	Agricultural dust, burning	1.94
Public Health Nuisances	Improper disposal of hazardous waste	1.91
Outdoor Air Quality	Transportation emissions or exhaust	1.88
Outdoor Air Quality	Industry fumes	1.86
Indoor Environmental Quality	Asbestos	1.86
Outdoor Air Quality	Lagoon odor	1.80
Recreational Water	Industry runoff	1.79
Indoor Environmental Quality	Carbon monoxide	1.79
Recreational Water	Improper sewage disposal	1.78
Recreational Water	Overuse of recreational water by campers and boaters	1.77
Public Health Nuisances	Animals/rodents	1.77
Outdoor Air Quality	Livestock, feedlot odor	1.77
Indoor Environmental Quality	Radon	1.75
Recreational Water	Lakes and swimming beaches	1.72
Indoor Environmental Quality	Lead	1.69
Drinking Water	Abandoned wells that are not sealed	1.65
Drinking Water	Contaminated PUBLIC drinking water	1.65
Public Health Nuisances	Illegal/open dumps	1.57
Drinking Water	Contaminated PRIVATE drinking water	1.52
Outdoor Air Quality	Stoves and fireplaces	1.44
Outdoor Air Quality	Outdoor fire pits, campfires, and fireplaces	1.37
Recreational Water	Public pools and spas	1.35

*Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

- Food Protection areas are considered to be fairly well addressed overall. These areas were evaluated on a different scale and cannot be ranked with the other environmental health issues. See Appendix Table 19 for distributions overall and for each of the eight counties.

Table 2. Degree that food protection areas are addressed

Topic	Issue	Mean*
Food Protection	Food prepared for and served at community events	3.64
Food Protection	Food in restaurants and bars	3.81
Food Protection	Food in grocery and convenience stores/delis/meat markets	3.93

*Means are based on a one to five scale, with one being "not addressed at all" and five being "very well addressed." "DNK/refused" is excluded from the mean.

- Of respondents who said that various environmental health issues are problematic:
 - Meth labs are considered problematic, on average, and they are rated as a high priority by the vast majority of respondents who see them as a problem (90.7 percent).
 - Though contaminated PUBLIC drinking water and contaminated PRIVATE drinking water do not rate as big problems, on average, respondents who see them as problematic said they are a high priority (82.1 percent and 77.4 percent, respectively). Environmental tobacco smoke is considered a high priority by 76.3 percent of respondents who see it as a problem.
 - Outdoor fire pits, campfires, and fireplaces are not considered problematic, on average, and only a small proportion of respondents who see them as a problem consider them a high priority (13.3 percent).
- See Appendix Tables 2, 5, 8, 14, 17, and 20 for distributions overall and for each of the eight counties.

Table 3. Of respondents who said there are environmental health issues they consider a problem (or not well addressed), percent of respondents who see each problem as a HIGH priority

Topic	Issue	Percent HIGH priority
Public Health Nuisances	Meth labs	90.7
Drinking Water	Contaminated PUBLIC drinking water	82.1
Drinking Water	Contaminated PRIVATE drinking water	77.4
Indoor Environmental Quality	Environmental tobacco smoke	76.3
Indoor Environmental Quality	Carbon monoxide	74.6
Indoor Environmental Quality	Lead	74.6
Public Health Nuisances	Improper disposal of hazardous waste	74.0
Indoor Environmental Quality	Asbestos	72.9
Recreational Water	Agricultural runoff	72.4
Recreational Water	Lakes and swimming beaches	72.2
Recreational Water	Industry runoff	70.0
Indoor Environmental Quality	Mold	68.9
Recreational Water	Improper sewage disposal	67.2
Public Health Nuisances	Illegal/open dumps	65.9
Recreational Water	Fertilizer runoff	64.9
Indoor Environmental Quality	Radon	63.8
Drinking Water	Abandoned wells that are not sealed	62.2
Public Health Nuisances	Mosquitoes and other insects	61.9
Public Health Nuisances	Garbage/junk houses	61.2
Outdoor Air Quality	Industry fumes	53.2
Outdoor Air Quality	Lagoon odor	51.7
Food Protection	Food in grocery and convenience stores/delis/meat markets	50.0
Outdoor Air Quality	Transportation emissions or exhaust	50.0
Recreational Water	Overuse of recreational water by campers and boaters	48.7
Food Protection	Food in restaurants and bars	46.3
Public Health Nuisances	Animals/rodents	45.9
Outdoor Air Quality	Livestock, feedlot odor	45.6
Recreational Water	Public pools and spas	41.2
Outdoor Air Quality	Agricultural dust, burning	27.8
Outdoor Air Quality	Stoves and fireplaces	26.7
Food Protection	Food prepared for and served at community events	15.7
Outdoor Air Quality	Outdoor fire pits, campfires, and fireplaces	13.3

- Of respondents who said that various environmental health issues are problematic:
 - On average, environmental tobacco smoke, which is considered problematic and is considered a high priority, has affected the health of a household member the most out of all the environmental health issues (mean=2.45).
 - Mold (mean=2.34) and agricultural dust and burning (mean=2.33) have had the next greatest effects on the health of a household member.
 - Food in restaurants and bars is considered to be fairly well addressed and less than half of respondents who said it is *not* well addressed rate it as a high priority. However, it has had the next greatest effect on the health of a household member (mean=2.27).
 - Meth labs, which are considered to be among the most problematic and among the highest priority of the environmental health issues, have not had much of an effect on a household member's health (mean=1.13).
- See Appendix Tables 3, 6, 9, 15, 18, and 21 for distributions overall and for each of the eight counties.

Table 4. Of respondents who said there are environmental health issues they consider a problem, extent that issues have affected a household member's health

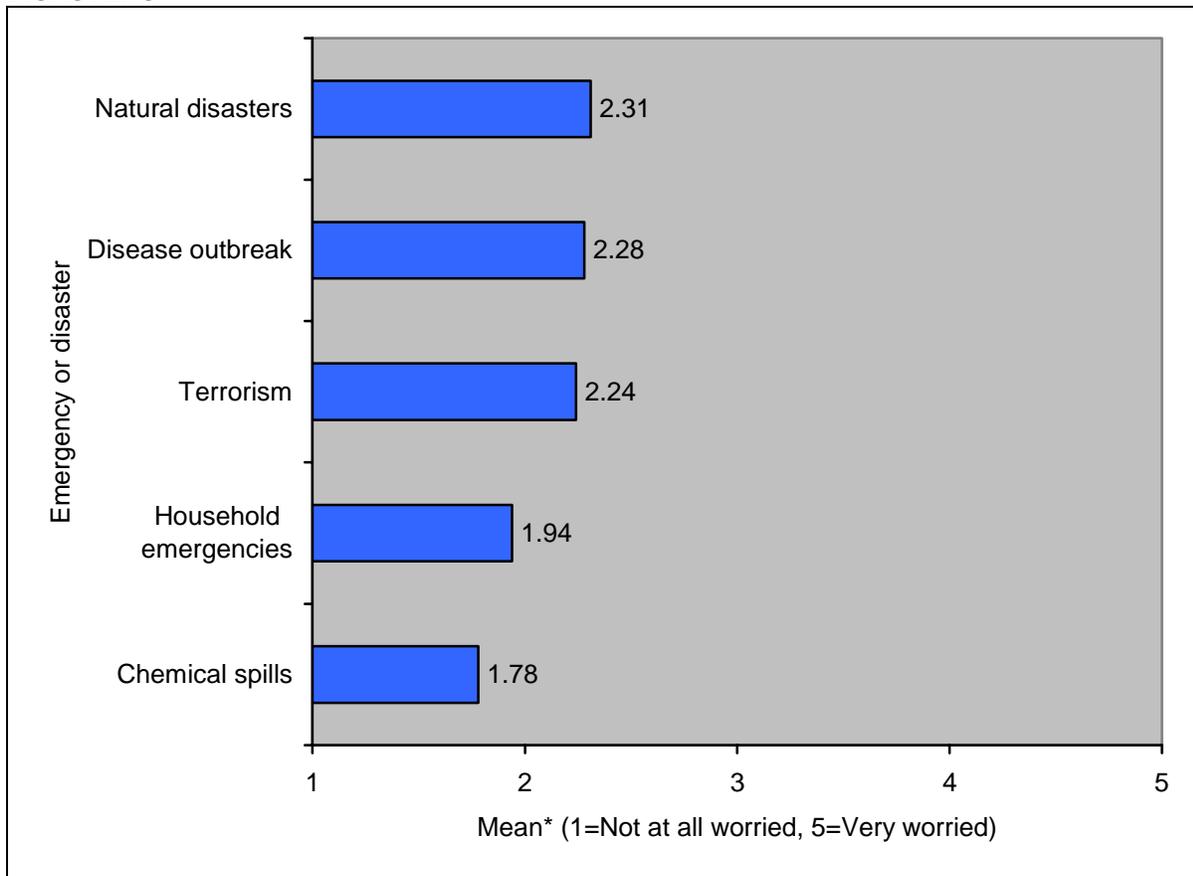
Topic	Issue	Mean*
Indoor Environmental Quality	Environmental tobacco smoke	2.45
Indoor Environmental Quality	Mold	2.34
Outdoor Air Quality	Agricultural dust, burning	2.33
Food Protection	Food in restaurants and bars	2.27
Recreational Water	Public pools and spas	2.00
Outdoor Air Quality	Stoves and fireplaces	2.00
Recreational Water	Lakes and swimming beaches	1.86
Food Protection	Food in grocery and convenience stores/delis/meat markets	1.81
Outdoor Air Quality	Industry fumes	1.73
Outdoor Air Quality	Outdoor fire pits, campfires, and fireplaces	1.73
Public Health Nuisances	Mosquitoes and other insects	1.66
Outdoor Air Quality	Transportation emissions or exhaust	1.65
Outdoor Air Quality	Livestock, feedlot odor	1.64
Indoor Environmental Quality	Carbon monoxide	1.57
Public Health Nuisances	Animals/rodents	1.56
Recreational Water	Agricultural runoff	1.51
Indoor Environmental Quality	Asbestos	1.49
Drinking Water	Contaminated PUBLIC drinking water	1.48
Public Health Nuisances	Garbage/junk houses	1.48
Outdoor Air Quality	Lagoon odor	1.47
Drinking Water	Contaminated PRIVATE drinking water	1.45
Recreational Water	Fertilizer runoff	1.41
Recreational Water	Improper sewage disposal	1.41
Public Health Nuisances	Improper disposal of hazardous waste	1.32
Food Protection	Food prepared for and served at community events	1.30
Recreational Water	Overuse of recreational water by campers and boaters	1.28
Drinking Water	Abandoned wells that are not sealed	1.27
Recreational Water	Industry runoff	1.27
Indoor Environmental Quality	Radon	1.26
Indoor Environmental Quality	Lead	1.20
Public Health Nuisances	Illegal/open dumps	1.15
Public Health Nuisances	Meth labs	1.13

*Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

EMERGENCY PREPAREDNESS

- Overall, respondents indicated that they are not very worried about various threatening emergencies or disasters. Natural disasters (e.g., violent storms, tornados, winter ice storms, and floods, etc.) have the highest mean rating (mean=2.31), followed by disease outbreak (e.g., the flu) (mean=2.28) and terrorism (mean=2.24).
- Respondents indicated that they are least worried about household emergencies (e.g., fire, gas leaks, etc.) (mean=1.94) and chemical spills (mean=1.78).
- See Appendix Table 22 for distributions overall and for each of the eight counties.

Figure 22. Degree that respondent is worried about various THREATENING EMERGENCIES OR DISASTERS

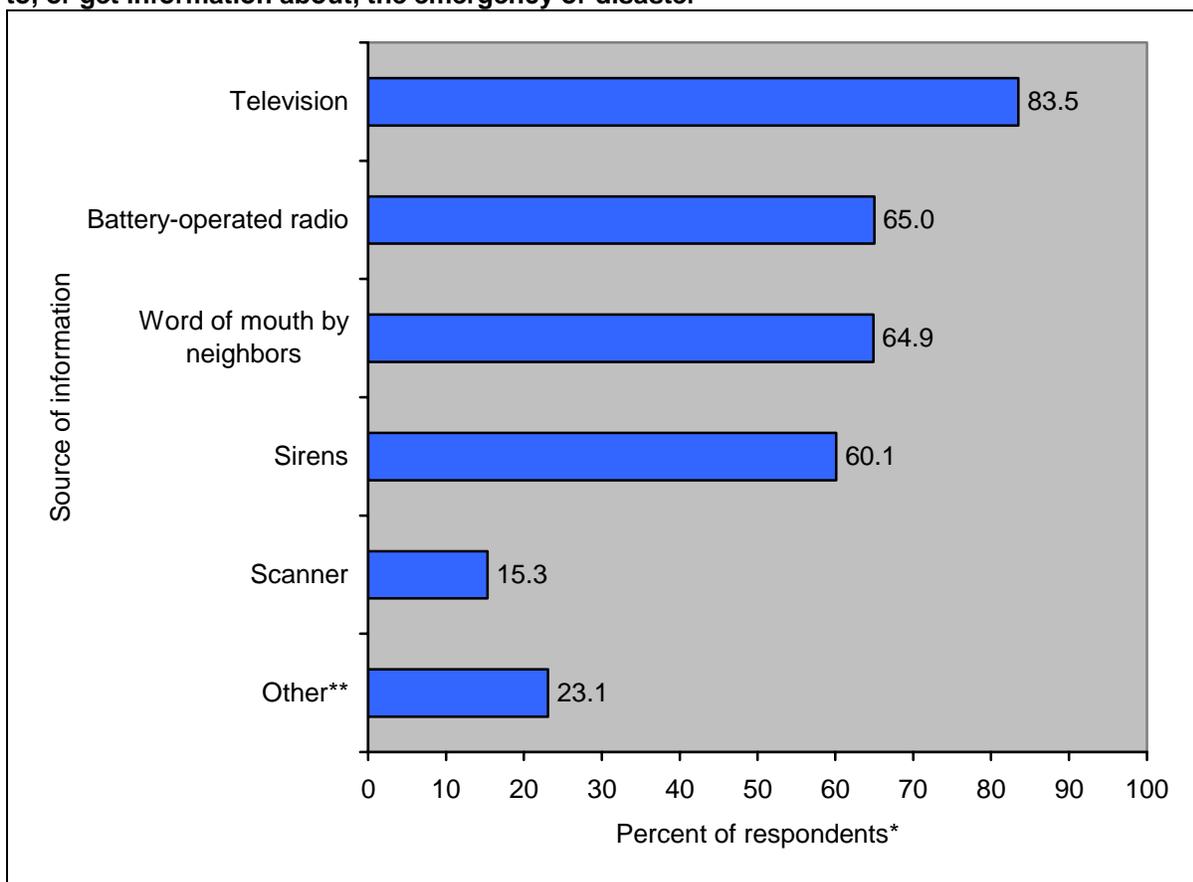


N=606

*Means are based on a one to five scale, with one being "not at all worried" and five being "very worried." "DNK/refused" is excluded from the mean.

- The vast majority of respondents indicated that in the event of a threatening emergency or disaster, they would be alerted to, or get information about, the emergency or disaster through television (83.5 percent), followed by battery-operated radio (65.0 percent), word of mouth by neighbors (64.9 percent), and sirens (60.1 percent).
- Less than one-fifth of respondents indicated they would be alerted to, or get information about, the emergency or disaster through the use of a scanner (15.3 percent).
- Nearly one-fourth of respondents indicated there are other ways they would be alerted to, or get information about, the emergency or disaster (23.1 percent). See Appendix Table 23-A for a list of other ways, including by phone, computer/Internet, radio, and through authorities.
- See Appendix Table 23 for distributions for each of the eight counties.

Figure 23. In the event of a threatening emergency or disaster, ways respondent would be alerted to, or get information about, the emergency or disaster



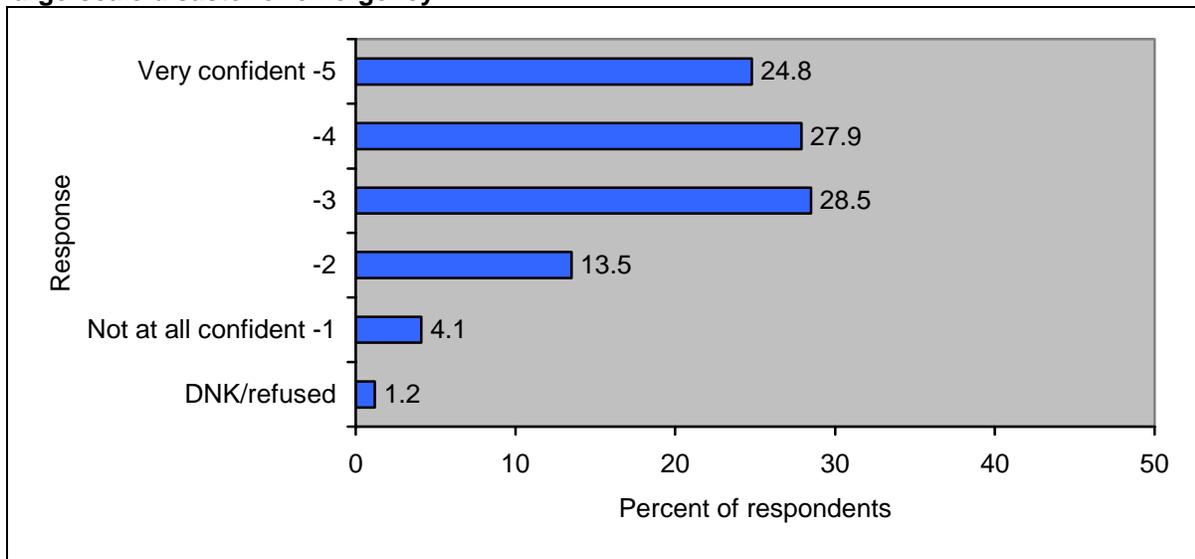
N=606

*Percentages do not add to 100.0 due to multiple responses.

**See Appendix Table 23-A for a list of other ways respondent would be alerted to, or get information about, the emergency or disaster.

- On average, respondents are confident that their community or area can respond to a large-scale disaster or emergency (mean=3.56); 24.8 percent indicated they are very confident.
- See Appendix Table 24 for distributions for each of the eight counties.

Figure 24. Respondent's degree of confidence that their community or area can respond to a large-scale disaster or emergency

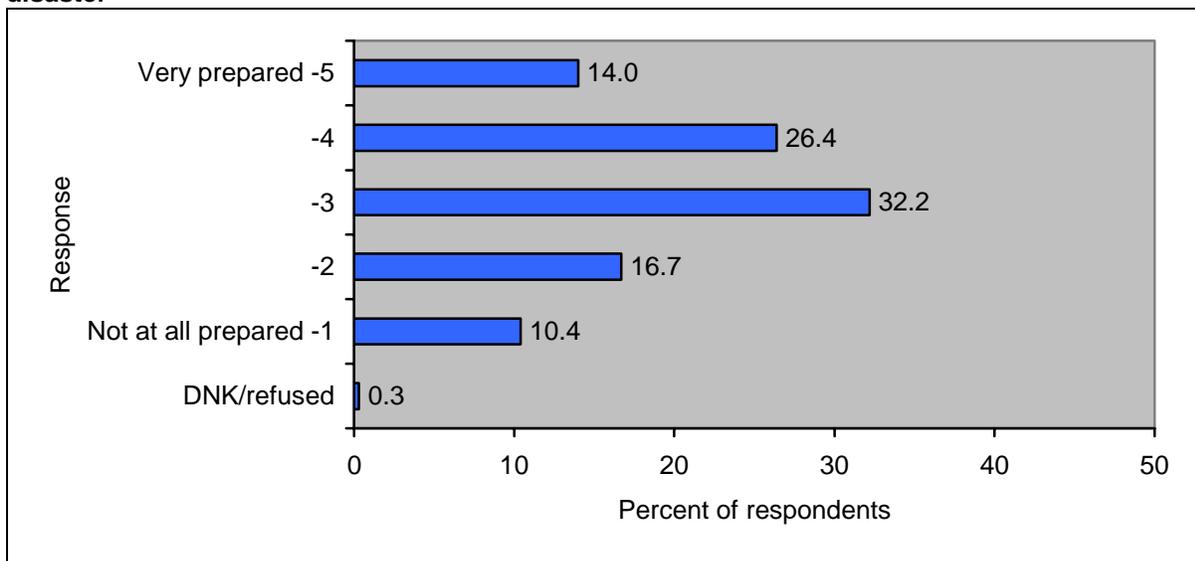


N=606

Mean=3.56. Mean is based on a one to five scale, with one being "not at all confident" and five being "very confident."
 "DNK/refused" is excluded from the mean.

- On average, respondents indicated that their household is moderately prepared in the event of an emergency or disaster (mean=3.17); 14.0 percent said they are very prepared.
- One in 10 respondents indicated they are not at all prepared (10.4 percent).
- See Appendix Table 25 for distributions overall and for each of the eight counties.

Figure 25. Level of preparedness of respondent's household in the event of an emergency or disaster



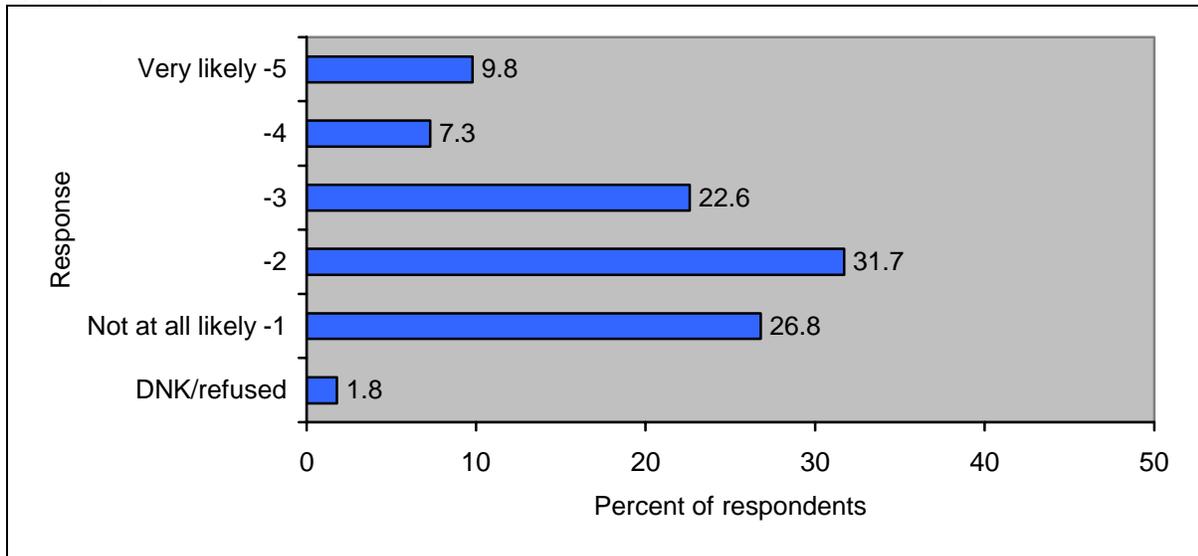
N=606

Mean=3.17. Mean is based on a one to five scale, with one being "not at all prepared" and five being "very prepared."

"DNK/refused" is excluded from the mean.

- Of respondents who are not well prepared for an emergency or disaster, on average, they are not very likely to take necessary steps to prepare in the next three months (mean=2.40). However, one in 10 respondents indicated they are very likely to take the necessary steps (9.8 percent).
- See Appendix Table 26 for distributions for each of the eight counties.

Figure 26. Of respondents who are not well prepared for an emergency or disaster, likelihood of respondent taking necessary steps, within the next three months, to prepare for an emergency or disaster

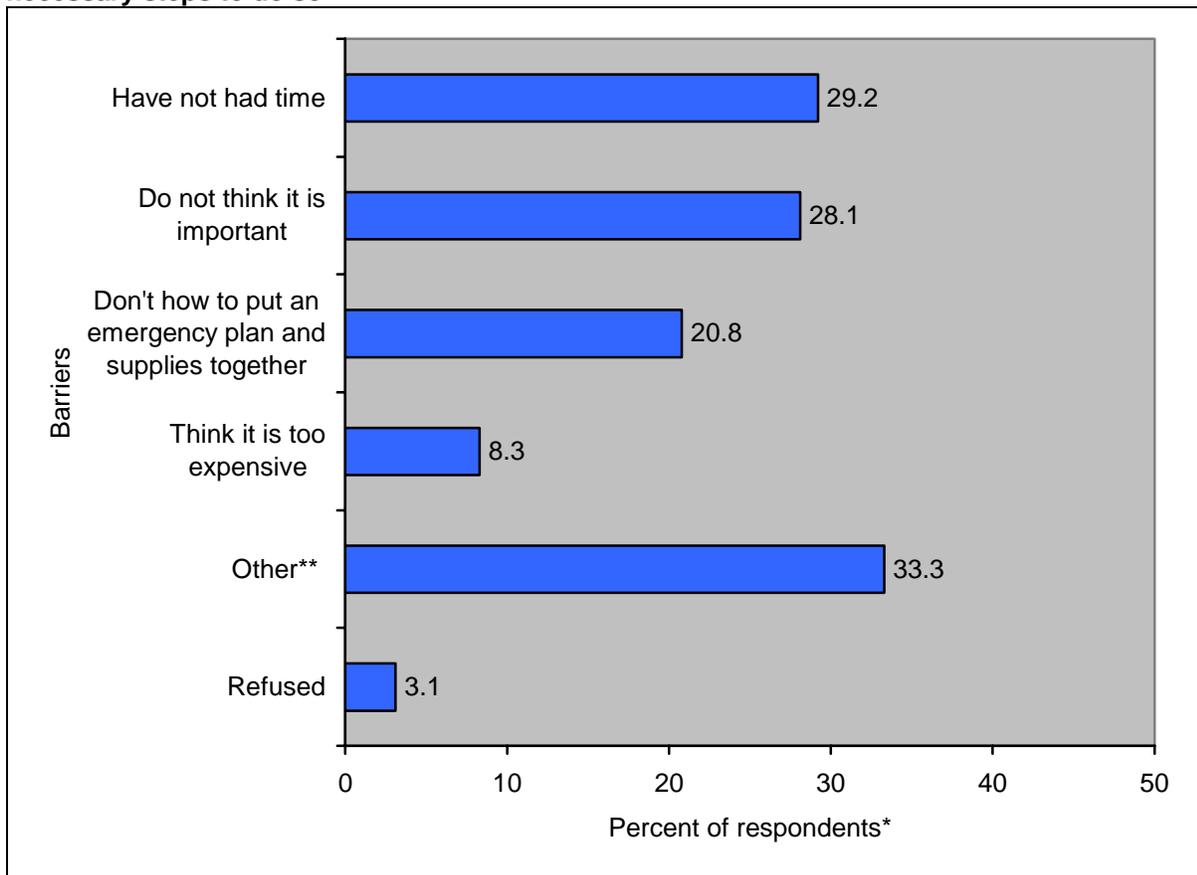


N=164

Mean=2.40. Mean is based on a one to five scale, with one being "not at all likely" and five being "very likely." "DNK/refused" is excluded from the mean.

- Of respondents who are not well prepared for an emergency or disaster and are not likely to prepare:
 - Nearly three in 10 respondents indicated they have not had time to prepare (29.2 percent) and that they do not think it is important (28.1 percent). One-fifth indicated that they do not know how to put an emergency plan and supplies together (20.8 percent)
 - Less than one-tenth indicated that it is too expensive (8.3 percent).
- One-third of respondents indicated there are other barriers (33.3 percent). See Appendix Table 27-A for a list of other barriers. Examples include respondents who do not think about it, who are unsure what to prepare for, and who plan to “wing it.”
- See Appendix Table 27 for distributions for each of the eight counties.

Figure 27. Of respondents who are not well prepared and not likely to prepare for an emergency or disaster within the next three months, barriers preventing respondent from taking the necessary steps to do so



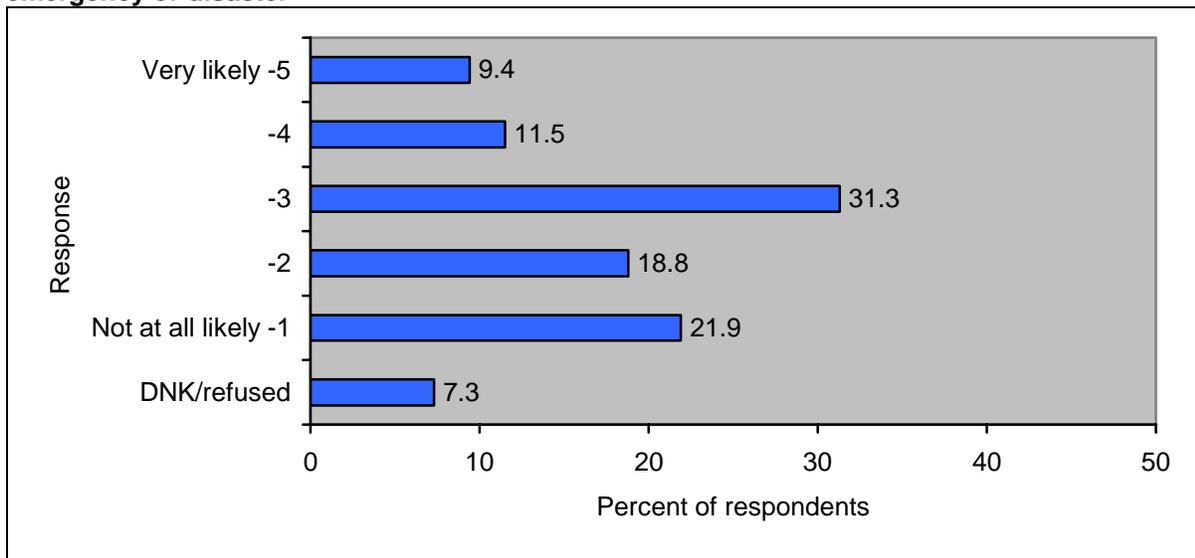
N=96

*Percentages do not add to 100.0 due to multiple responses.

**See Appendix Table 27-A for a list of other barriers preventing respondents from preparing for an emergency or disaster.

- Of respondents who are not well prepared and are not likely to prepare for an emergency or disaster within the next three months, respondents are, on average, moderately likely to overcome the barriers to preparing for an emergency or disaster (mean=2.65). While 21.9 percent are not at all likely to overcome the barriers, nearly one in 10 respondents are very likely to overcome the barriers (9.4 percent).
- See Appendix Table 28 for distributions for each of the eight counties.

Figure 28. Of respondents who are not well prepared and not likely to prepare for an emergency or disaster within the next three months, likelihood of overcoming barriers to preparing for an emergency or disaster

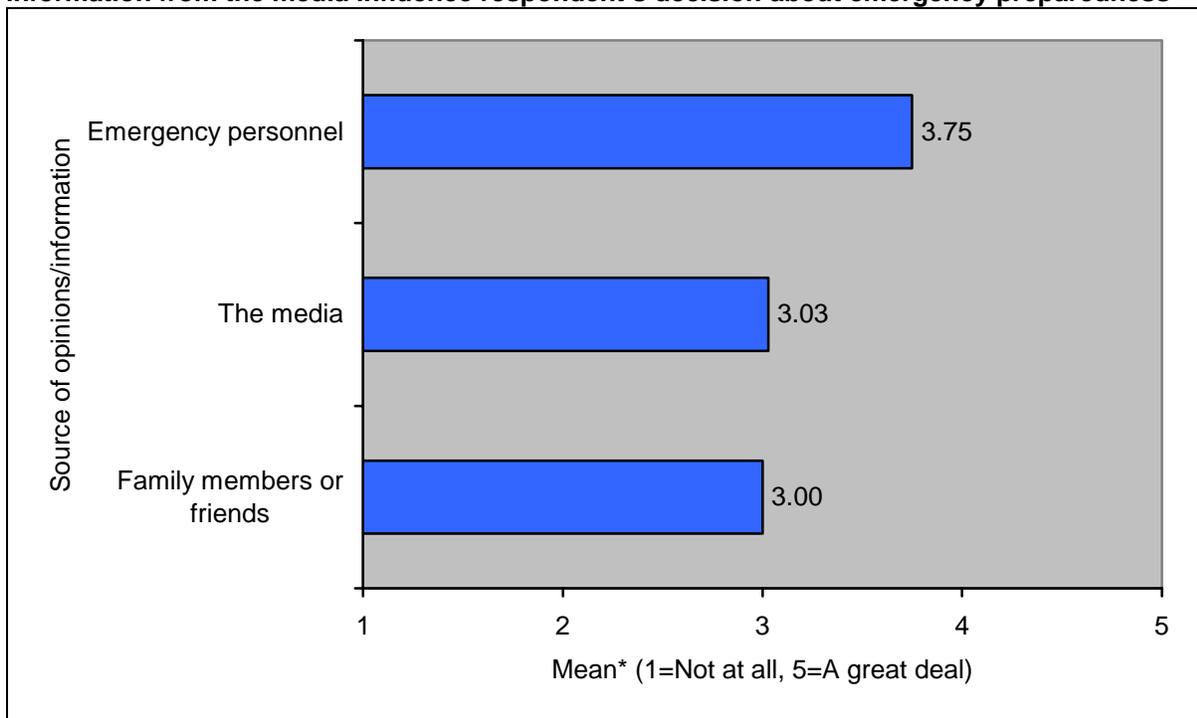


N=96

Mean=2.65. Mean is based on a one to five scale, with one being “not at all likely” and five being “very likely.” “DNK/refused” is excluded from the mean.

- Emergency personnel (e.g., fire, police, and emergency medical services) have the most influence on the respondent's decision about emergency preparedness (e.g., developing an emergency plan and supply kit) (mean=3.75).
- While still moderately influential overall, media (newspapers, television, radio, brochures, Internet, magazines, etc.) and family members or friends are least influential in the respondent's decision about emergency preparedness (means=3.03 and 3.00, respectively).
- See Appendix Table 29 for distributions overall and for each of the eight counties.

Figure 29. Extent that opinions of family members or friends, emergency personnel, and information from the media influence respondent's decision about emergency preparedness

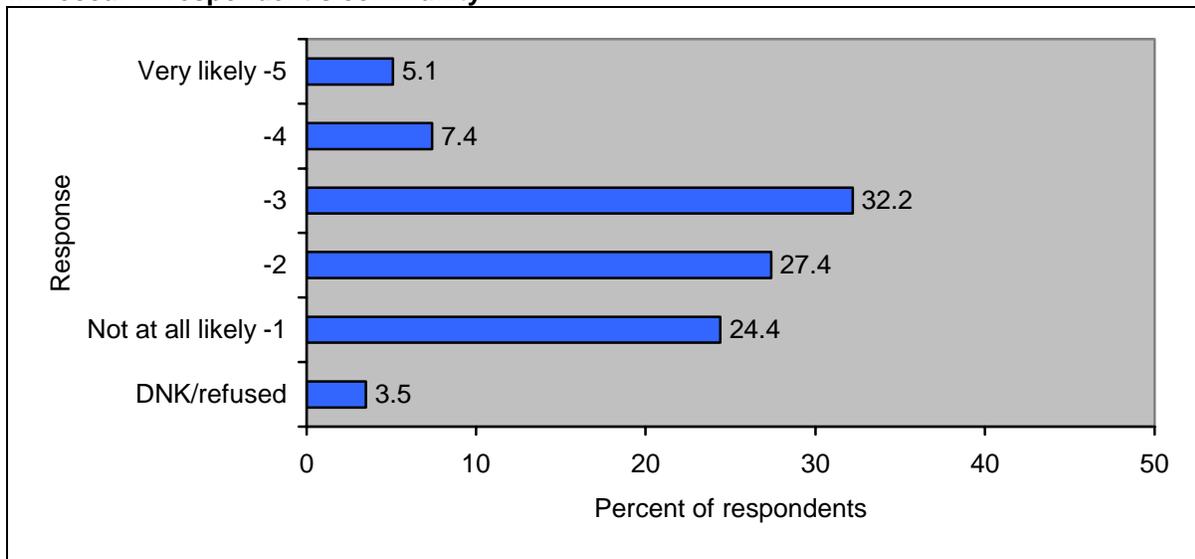


N=606

*Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

- On average, respondents indicated that an emergency or natural disaster occurring in their community is unlikely (mean=2.39); 24.4 percent of respondents indicated it is not at all likely.
- See Appendix Table 30 for distributions for each of the eight counties.

Figure 30. Respondent’s opinion regarding the likelihood that an emergency or natural disaster will occur in respondent’s community



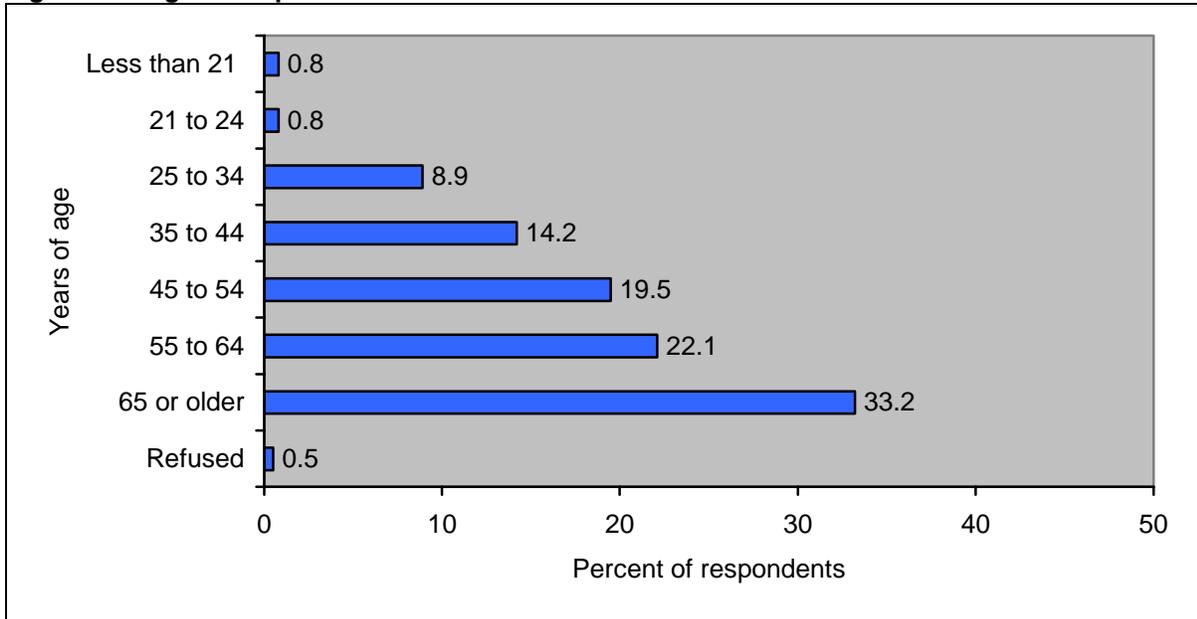
N=606

Mean=2.39. Mean is based on a one to five scale, with one being “not at all likely” and five being “very likely.” “DNK/refused” is excluded from the mean.

DEMOGRAPHICS

- One-third of respondents are 65 years of age or older (33.2 percent). One in 10 respondents is under the age of 35 (10.5 percent).
- See Appendix Table 31 for distributions for each of the eight counties.

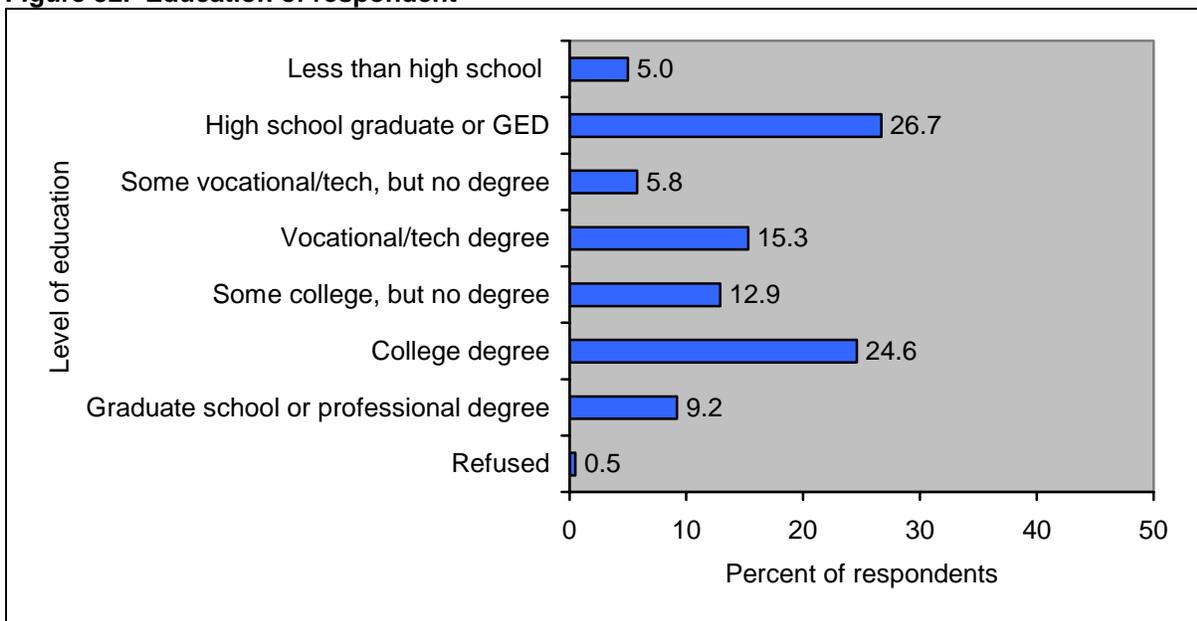
Figure 31. Age of respondent



N=606

- Nearly one-third of respondents have, at most, completed high school or received their GED (31.7 percent). One-third of respondents have, at least, a college degree (33.8 percent).
- See Appendix Table 32 for distributions for each of the eight counties.

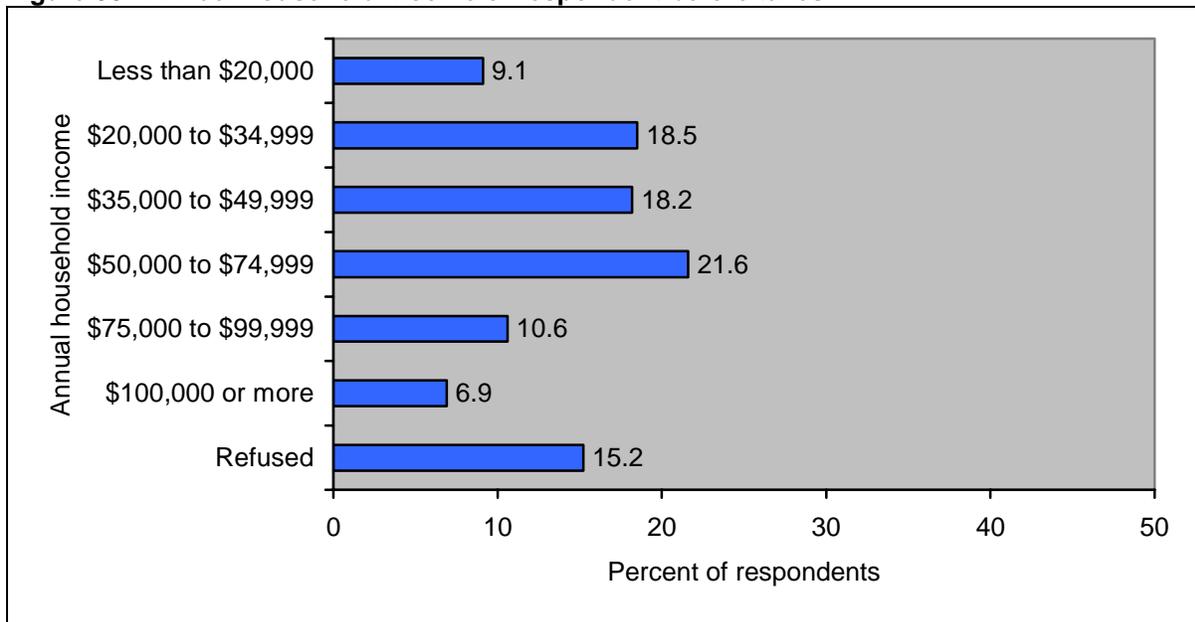
Figure 32. Education of respondent



N=606

- Overall, nearly half of respondents have an annual household income of less than \$50,000 before taxes (45.8 percent), while 39.1 percent of respondents indicated an income of \$50,000 or more. More than one in 10 respondents refused to indicate their household income before taxes (15.2 percent).
- See Appendix Table 33 for distributions for each of the eight counties.

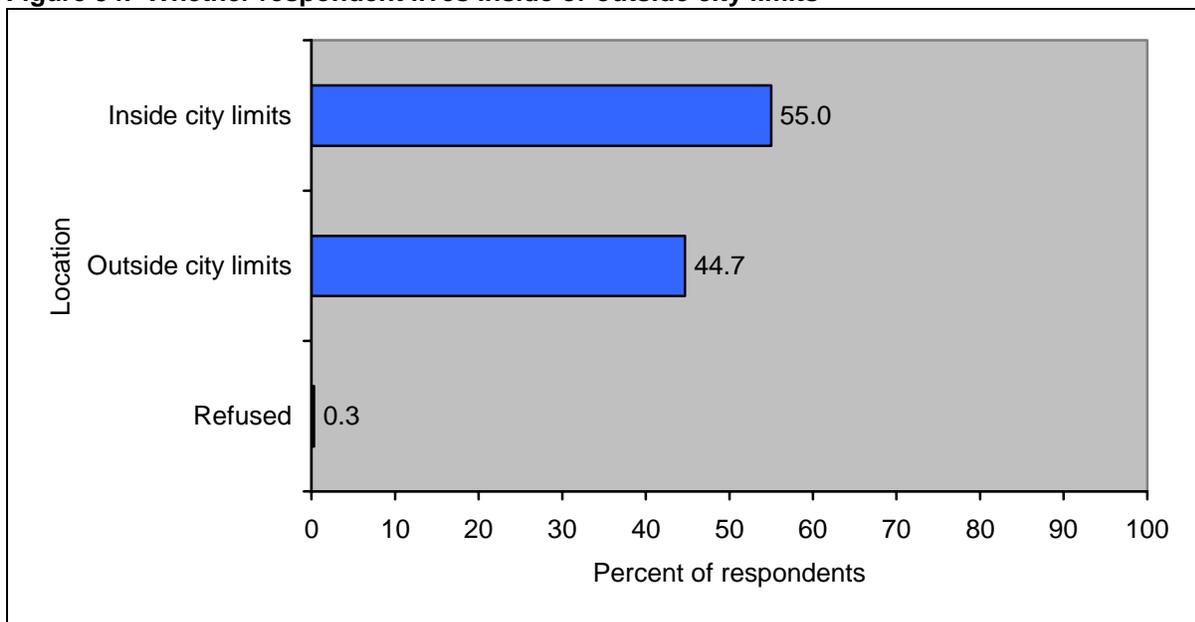
Figure 33. Annual household income of respondent before taxes



N=606

- The majority of respondents live inside city limits (55.0 percent); 44.7 percent live outside city limits.
- See Appendix Table 34 for distributions for each of the eight counties.

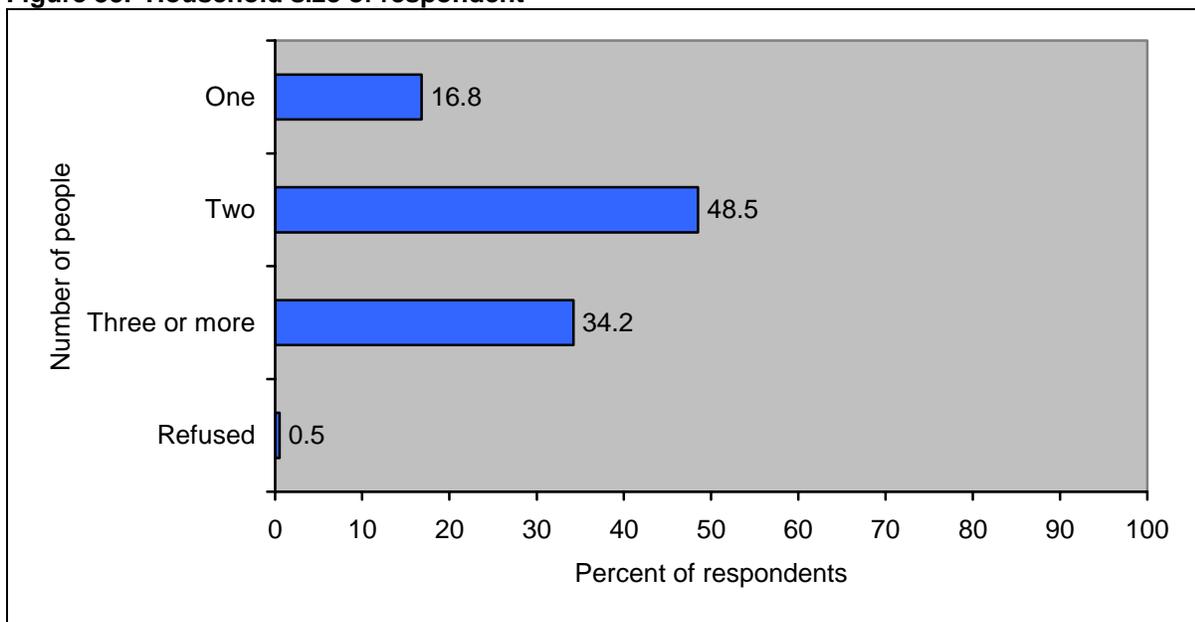
Figure 34. Whether respondent lives inside or outside city limits



N=606

- Nearly half of respondents live in a two-person household (48.5 percent), and one-third live in a household with three or more people (34.2 percent).
- See Appendix Table 35 for distributions for each of the eight counties.

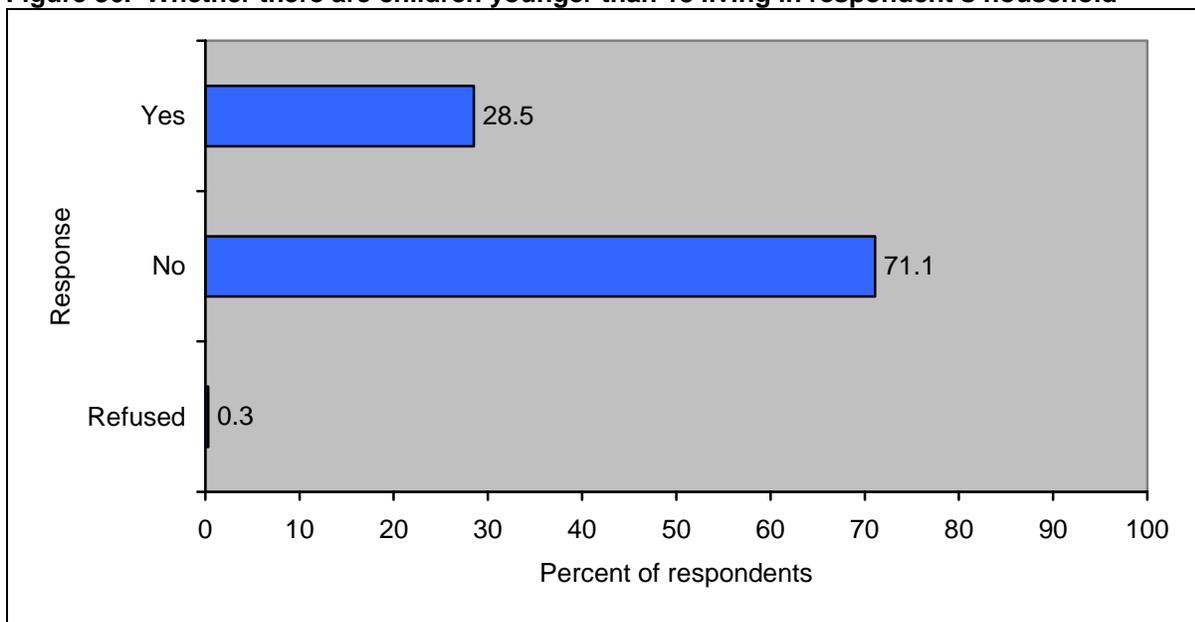
Figure 35. Household size of respondent



N=606

- The majority of respondents do not have children younger than 18 living in their household (71.1 percent).
- See Appendix Table 36 for distributions for each of the eight counties.

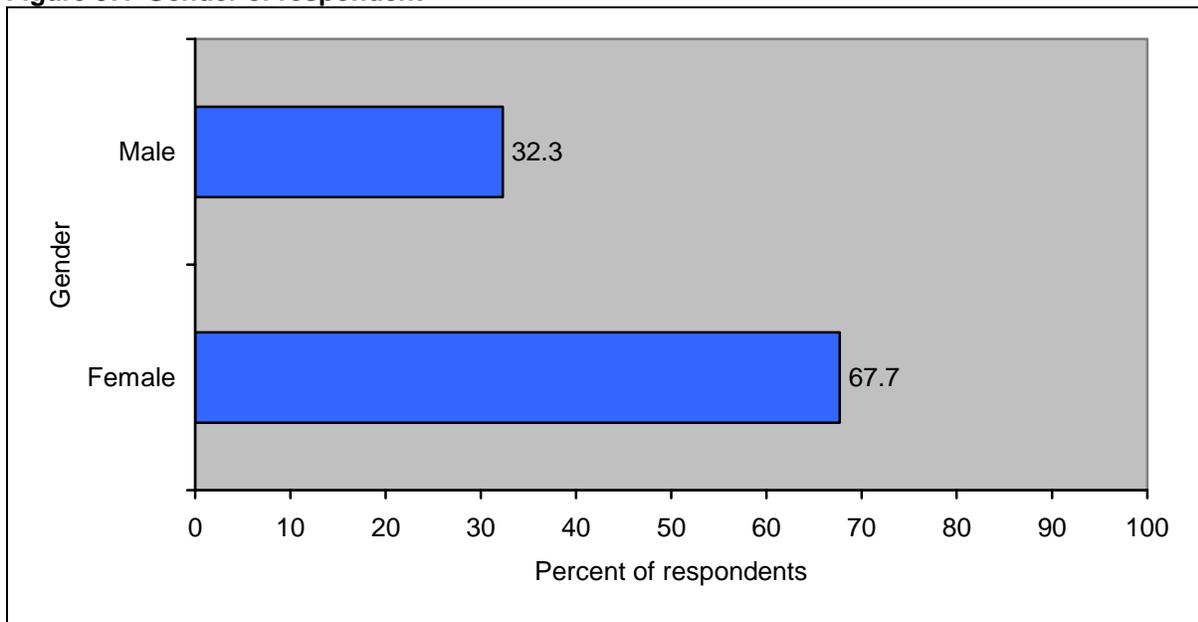
Figure 36. Whether there are children younger than 18 living in respondent's household



N=606

- Two-thirds of respondents are female (67.7 percent).
- See Appendix Table 37 for distributions for each of the eight counties.

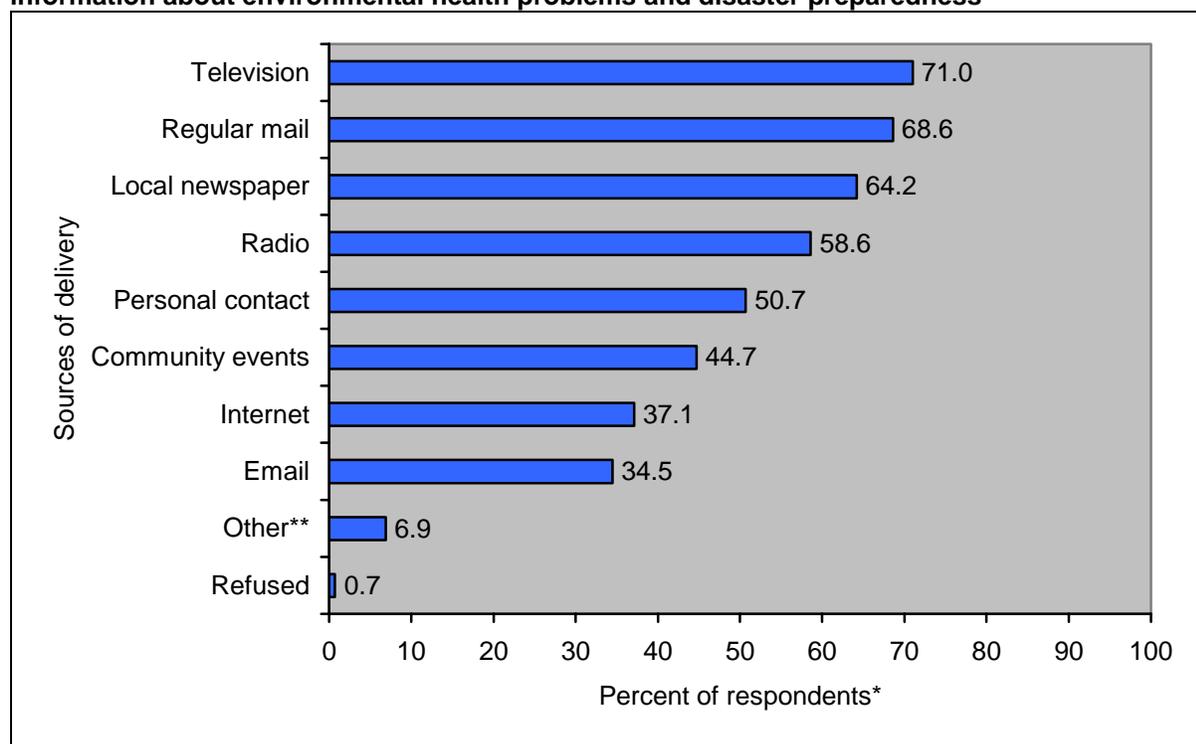
Figure 37. Gender of respondent



N=606

- The majority of respondents indicated television as the best way that organizations can provide educational material and information about environmental health problems and disaster preparedness (71.0 percent), followed by regular mail (68.6 percent), local newspaper (64.2 percent), radio (58.6 percent), and personal contact (50.7 percent). Additionally, more than one-third of respondents indicated community events (44.7 percent), Internet (37.1 percent), and email (34.5 percent) as ways in which organizations can provide educational material and information.
- See Appendix Table 38-A for a list of other ways that organizations can provide respondent with educational material and information, including by phone, through school and educational programs, and through their employment.
- See Appendix Table 38 for distributions for each of the eight counties.

Figure 38. Ways that organizations can provide respondent with educational material and information about environmental health problems and disaster preparedness



N=606

*Percentages do not add to 100.0 due to multiple responses.

**See Appendix Table 38-A for a list of other ways that organizations can provide respondent with educational material and information.

- See Appendix Table 39 for a list of additional comments from respondents. Examples include:
 - “I think we’re doing a relatively good job but we could improve; we need to be more prepared as first responders, regarding what each person’s job is; we’re just starting to do this now in the community and it will take some time to develop.”
 - “Rural areas need to have a stronger understanding of what it is going to take; our church council has discussed the issue but hasn’t done anything.”
 - “The over-publicity turns people off rather than making them more prepared; be cautious to not over-publicize or set off panic; God is in control and we will be fine.”

APPENDIX TABLES

Appendix Table 1. Degree that environmental health factors relating to OUTDOOR AIR QUALITY are considered a problem

Outdoor air quality factors by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Agricultural dust, burning							
<i>Overall region (N=606) (mean=1.94)</i>	47.5	22.4	20.1	5.8	3.1	1.0	99.9
Clay (N=75) (<i>mean=2.14</i>)	38.7	21.3	22.7	6.7	5.3	5.3	100.0
Douglas (N=75) (<i>mean=2.04</i>)	46.7	18.7	22.7	8.0	4.0	0.0	100.1
Grant (N=75) (<i>mean=2.01</i>)	46.7	22.7	18.7	6.7	5.3	0.0	100.1
Otter Tail (N=75) (<i>mean=1.91</i>)	46.7	25.3	21.3	4.0	2.7	0.0	100.0
Pope (N=78) (<i>mean=1.83</i>)	52.6	15.4	24.4	3.8	1.3	2.6	100.1
Stevens (N=75) (<i>mean=1.87</i>)	46.7	26.7	20.0	6.7	0.0	0.0	100.1
Traverse (N=76) (<i>mean=1.87</i>)	43.4	34.2	18.4	0.0	3.9	0.0	99.9
Wilkin (N=77) (<i>mean=1.83</i>)	58.4	15.6	13.0	10.4	2.6	0.0	100.0
Transportation emissions or exhaust							
<i>Overall region (N=606) (mean=1.88)</i>	50.8	23.4	15.0	6.8	3.5	0.5	100.0
Clay (N=75) (<i>mean=2.33</i>)	29.3	25.3	30.7	5.3	6.7	2.7	100.0
Douglas (N=75) (<i>mean=2.00</i>)	41.3	30.7	17.3	8.0	2.7	0.0	100.0
Grant (N=75) (<i>mean=1.72</i>)	58.7	22.7	12.0	1.3	5.3	0.0	100.0
Otter Tail (N=75) (<i>mean=1.83</i>)	48.0	32.0	10.7	8.0	1.3	0.0	100.0
Pope (N=78) (<i>mean=1.88</i>)	56.4	16.7	12.8	10.3	3.8	0.0	100.0
Stevens (N=75) (<i>mean=1.72</i>)	56.0	22.7	16.0	4.0	1.3	0.0	100.0
Traverse (N=76) (<i>mean=1.84</i>)	55.3	21.1	10.5	6.6	5.3	1.3	100.1
Wilkin (N=77) (<i>mean=1.74</i>)	61.0	16.9	10.4	10.4	1.3	0.0	100.0
Industry Fumes							
<i>Overall region (N=606) (mean=1.86)</i>	56.3	19.0	11.6	7.1	5.6	0.5	100.1
Clay (N=75) (<i>mean=2.28</i>)	38.7	20.0	24.0	9.3	8.0	0.0	100.0
Douglas (N=75) (<i>mean=1.81</i>)	49.3	30.7	10.7	4.0	4.0	1.3	100.0
Grant (N=75) (<i>mean=1.73</i>)	68.0	9.3	8.0	6.7	6.7	1.3	100.0
Otter Tail (N=75) (<i>mean=1.69</i>)	60.0	21.3	10.7	5.3	2.7	0.0	100.0
Pope (N=78) (<i>mean=1.64</i>)	69.2	11.5	7.7	5.1	5.1	1.3	99.9
Stevens (N=75) (<i>mean=1.85</i>)	48.0	33.3	8.0	6.7	4.0	0.0	100.0
Traverse (N=76) (<i>mean=1.71</i>)	67.1	10.5	10.5	7.9	3.9	0.0	99.9
Wilkin (N=77) (<i>mean=2.18</i>)	49.4	15.6	13.0	11.7	10.4	0.0	100.1

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 1 (Continued). Degree that environmental health factors relating to OUTDOOR AIR QUALITY are considered a problem

Outdoor air quality factors by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Lagoon odor							
<i>Overall region (N=606) (mean=1.80)</i>	57.6	15.5	16.0	7.6	2.3	1.0	100.0
Clay (N=75) (mean=2.44)	37.3	14.7	26.7	9.3	12.0	0.0	100.0
Douglas (N=75) (mean=1.39)	74.7	13.3	6.7	4.0	0.0	1.3	100.0
Grant (N=75) (mean=1.70)	58.7	16.0	16.0	6.7	0.0	2.7	100.1
Otter Tail (N=75) (mean=1.61)	65.3	16.0	8.0	9.3	0.0	1.3	99.9
Pope (N=78) (mean=1.80)	62.8	5.1	17.9	9.0	2.6	2.6	100.0
Stevens (N=75) (mean=1.81)	54.7	18.7	17.3	9.3	0.0	0.0	100.0
Traverse (N=76) (mean=1.79)	57.9	17.1	15.8	6.6	2.6	0.0	100.0
Wilkin (N=77) (mean=1.87)	49.4	23.4	19.5	6.5	1.3	0.0	100.1
Livestock, feedlot odor							
<i>Overall region (N=606) (mean=1.77)</i>	55.6	23.1	11.2	6.3	3.1	0.7	100.0
Clay (N=75) (mean=1.96)	50.7	24.0	9.3	10.7	5.3	0.0	100.0
Douglas (N=75) (mean=1.64)	65.3	17.3	5.3	8.0	2.7	1.3	99.9
Grant (N=75) (mean=1.41)	69.3	21.3	6.7	0.0	1.3	1.3	99.9
Otter Tail (N=75) (mean=1.93)	41.3	33.3	17.3	2.7	4.0	1.3	99.9
Pope (N=78) (mean=2.04)	46.2	21.8	16.7	9.0	5.1	1.3	100.1
Stevens (N=75) (mean=2.09)	40.0	28.0	18.7	9.3	4.0	0.0	100.0
Traverse (N=76) (mean=1.82)	56.6	18.4	14.5	7.9	2.6	0.0	100.0
Wilkin (N=77) (mean=1.31)	75.3	20.8	1.3	2.6	0.0	0.0	100.0
Stoves and fireplaces							
<i>Overall region (N=606) (mean=1.44)</i>	67.3	21.5	6.8	1.3	1.2	2.0	100.1
Clay (N=75) (mean=1.49)	62.7	25.3	6.7	1.3	1.3	2.7	100.0
Douglas (N=75) (mean=1.59)	58.7	24.0	12.0	1.3	1.3	2.7	100.0
Grant (N=75) (mean=1.41)	66.7	20.0	6.7	0.0	1.3	5.3	100.0
Otter Tail (N=75) (mean=1.56)	61.3	26.7	9.3	0.0	2.7	0.0	100.0
Pope (N=78) (mean=1.39)	75.6	14.1	5.1	1.3	2.6	1.3	100.0
Stevens (N=75) (mean=1.51)	65.3	22.7	8.0	4.0	0.0	0.0	100.0
Traverse (N=76) (mean=1.34)	72.4	19.7	2.6	2.6	0.0	2.6	99.9
Wilkin (N=77) (mean=1.28)	75.3	19.5	3.9	0.0	0.0	1.3	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 1 (Continued). Degree that environmental health factors relating to OUTDOOR AIR QUALITY are considered a problem

Outdoor air quality factors by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Outdoor fire pits, campfires, and fireplaces							
<i>Overall region (N=606) (mean=1.37)</i>	74.8	15.7	6.3	1.5	1.0	0.8	100.1
Clay (N=75) (mean=1.40)	76.0	10.7	5.3	4.0	1.3	2.7	100.0
Douglas (N=75) (mean=1.69)	57.3	21.3	16.0	1.3	2.7	1.3	99.9
Grant (N=75) (mean=1.31)	76.0	16.0	5.3	1.3	0.0	1.3	99.9
Otter Tail (N=75) (mean=1.40)	73.3	18.7	4.0	2.7	1.3	0.0	100.0
Pope (N=78) (mean=1.36)	76.9	15.4	3.8	2.6	1.3	0.0	100.0
Stevens (N=75) (mean=1.29)	76.0	18.7	5.3	0.0	0.0	0.0	100.0
Traverse (N=76) (mean=1.30)	80.3	11.8	6.6	0.0	1.3	0.0	100.0
Wilkin (N=77) (mean=1.21)	81.8	13.0	3.9	0.0	0.0	1.3	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 2. Of respondents who said there are OUTDOOR AIR QUALITY factors they consider a problem, level of priority in addressing each problem

Outdoor air quality factors by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Industry Fumes					
<i>Overall region (N=77)</i>	7.8	39.0	53.2	0.0	100.0
Clay (N=13)	7.7	38.5	53.8	0.0	100.0
Douglas (N=6)	0.0	33.3	66.7	0.0	100.0
Grant (N=10)	0.0	50.0	50.0	0.0	100.0
Otter Tail (N=6)	0.0	0.0	100.0	0.0	100.0
Pope (N=8)	25.0	0.0	75.0	0.0	100.0
Stevens (N=8)	12.5	37.5	50.0	0.0	100.0
Traverse (N=9)	0.0	66.7	33.3	0.0	100.0
Wilkin (N=17)	11.8	52.9	35.3	0.0	100.0
Lagoon odor					
<i>Overall region (N=60)</i>	5.0	40.0	51.7	3.3	100.0
Clay (N=16)	6.3	37.5	50.0	6.3	100.1
Douglas (N=3)	0.0	33.3	66.7	0.0	100.0
Grant (N=5)	20.0	40.0	20.0	20.0	100.0
Otter Tail (N=7)	0.0	14.3	85.7	0.0	100.0
Pope (N=9)	11.1	44.4	44.4	0.0	99.9
Stevens (N=7)	0.0	28.6	71.4	0.0	100.0
Traverse (N=7)	0.0	57.1	42.9	0.0	100.0
Wilkin (N=6)	0.0	66.7	33.3	0.0	100.0
Transportation emissions or exhaust					
<i>Overall region (N=62)</i>	12.9	35.5	50.0	1.6	100.0
Clay (N=9)	11.1	44.4	44.4	0.0	99.9
Douglas (N=8)	25.0	12.5	62.5	0.0	100.0
Grant (N=5)	0.0	40.0	40.0	20.0	100.0
Otter Tail (N=7)	0.0	57.1	42.9	0.0	100.0
Pope (N=11)	27.3	18.2	54.5	0.0	100.0
Stevens (N=4)	0.0	25.0	75.0	0.0	100.0
Traverse (N=9)	11.1	33.3	55.6	0.0	100.0
Wilkin (N=9)	11.1	55.6	33.3	0.0	100.0
Livestock, feedlot odor					
<i>Overall region (N=57)</i>	14.0	40.4	45.6	0.0	100.0
Clay (N=12)	8.3	50.0	41.7	0.0	100.0
Douglas (N=8)	0.0	50.0	50.0	0.0	100.0
Grant (N=1)	0.0	0.0	100.0	0.0	100.0
Otter Tail (N=5)	40.0	20.0	40.0	0.0	100.0
Pope (N=11)	9.1	45.5	45.5	0.0	100.1
Stevens (N=10)	10.0	40.0	50.0	0.0	100.0
Traverse (N=8)	37.5	12.5	50.0	0.0	100.0
Wilkin (N=2)	0.0	100.0	0.0	0.0	100.0
Agricultural dust, burning					
<i>Overall region (N=54)</i>	9.3	57.4	27.8	5.6	100.1
Clay (N=9)	0.0	77.8	22.2	0.0	100.0
Douglas (N=9)	11.1	55.6	33.3	0.0	100.0
Grant (N=9)	11.1	55.6	11.1	22.2	100.0
Otter Tail (N=5)	0.0	40.0	60.0	0.0	100.0
Pope (N=4)	0.0	75.0	25.0	0.0	100.0
Stevens (N=5)	20.0	40.0	40.0	0.0	100.0
Traverse (N=3)	0.0	66.7	33.3	0.0	100.0
Wilkin (N=10)	20.0	50.0	20.0	10.0	100.0

Appendix Table 2 (Continued). Of respondents who said there are OUTDOOR AIR QUALITY factors they consider a problem, level of priority in addressing each problem

Outdoor air quality factors by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Stoves and fireplaces					
<i>Overall region (N=15)</i>	33.3	33.3	26.7	6.7	100.0
Clay (N=2)	50.0	0.0	50.0	0.0	100.0
Douglas (N=2)	0.0	50.0	50.0	0.0	100.0
Grant (N=1)	0.0	0.0	100.0	0.0	100.0
Otter Tail (N=2)	50.0	50.0	0.0	0.0	100.0
Pope (N=3)	66.7	33.3	0.0	0.0	100.0
Stevens (N=3)	33.3	33.3	33.3	0.0	99.9
Traverse (N=2)	0.0	50.0	0.0	50.0	100.0
Wilkin (N=0)	NA	NA	NA	NA	NA
Outdoor fire pits, campfires, and fireplaces					
<i>Overall region (N=15)</i>	33.3	53.3	13.3	0.0	99.9
Clay (N=4)	50.0	25.0	25.0	0.0	100.0
Douglas (N=3)	33.3	66.7	0.0	0.0	100.0
Grant (N=1)	0.0	100.0	0.0	0.0	100.0
Otter Tail (N=3)	0.0	100.0	0.0	0.0	100.0
Pope (N=3)	66.7	33.3	0.0	0.0	100.0
Stevens (N=0)	NA	NA	NA	NA	NA
Traverse (N=1)	0.0	0.0	100.0	0.0	100.0
Wilkin (N=0)	NA	NA	NA	NA	NA

NOTE: NA = not applicable.

Appendix Table 3. Of respondents who said there are OUTDOOR AIR QUALITY factors they consider a problem, extent that factors have affected a household member's health

Outdoor air quality factors by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Agricultural dust, burning							
<i>Overall region (N=54) (mean=2.33)</i>	46.3	9.3	14.8	9.3	14.8	5.6	100.1
Clay (N=9) (mean=1.86)	33.3	22.2	22.2	0.0	0.0	22.2	99.9
Douglas (N=9) (mean=2.25)	44.4	0.0	33.3	0.0	11.1	11.1	99.9
Grant (N=9) (mean=2.22)	55.6	11.1	0.0	22.2	11.1	0.0	100.0
Otter Tail (N=5) (mean=1.80)	40.0	40.0	20.0	0.0	0.0	0.0	100.0
Pope (N=4) (mean=3.00)	50.0	0.0	0.0	0.0	50.0	0.0	100.0
Stevens (N=5) (mean=2.20)	60.0	0.0	20.0	0.0	20.0	0.0	100.0
Traverse (N=3) (mean=2.67)	33.3	0.0	33.3	33.3	0.0	0.0	99.9
Wilkin (N=10) (mean=2.80)	50.0	0.0	0.0	20.0	30.0	0.0	100.0
Stoves and fireplaces							
<i>Overall region (N=15) (mean=2.00)</i>	73.3	0.0	0.0	6.7	20.0	0.0	100.0
Clay (N=2) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Douglas (N=2) (mean=3.00)	50.0	0.0	0.0	0.0	50.0	0.0	100.0
Grant (N=1) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=2) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Stevens (N=3) (mean=3.33)	33.3	0.0	0.0	33.3	33.3	0.0	99.9
Traverse (N=2) (mean=3.00)	50.0	0.0	0.0	0.0	50.0	0.0	100.0
Wilkin (N=0) (mean=NA)	NA	NA	NA	NA	NA	NA	NA
Industry Fumes							
<i>Overall region (N=77) (mean=1.73)</i>	68.8	10.4	7.8	5.2	7.8	0.0	100.0
Clay (N=13) (mean=2.31)	46.2	15.4	15.4	7.7	15.4	0.0	100.1
Douglas (N=6) (mean=1.33)	83.3	0.0	16.7	0.0	0.0	0.0	100.0
Grant (N=10) (mean=1.80)	50.0	30.0	10.0	10.0	0.0	0.0	100.0
Otter Tail (N=6) (mean=1.83)	66.7	16.7	0.0	0.0	16.7	0.0	100.1
Pope (N=8) (mean=1.50)	87.5	0.0	0.0	0.0	12.5	0.0	100.0
Stevens (N=8) (mean=1.88)	75.0	0.0	0.0	12.5	12.5	0.0	100.0
Traverse (N=9) (mean=1.56)	77.8	11.1	0.0	0.0	11.1	0.0	100.0
Wilkin (N=17) (mean=1.47)	76.5	5.9	11.8	5.9	0.0	0.0	100.1
Outdoor fire pits, campfires, and fireplaces							
<i>Overall region (N=15) (mean=1.73)</i>	73.3	6.7	6.7	0.0	13.3	0.0	100.0
Clay (N=4) (mean=1.50)	75.0	0.0	25.0	0.0	0.0	0.0	100.0
Douglas (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=1) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=3) (mean=1.33)	66.7	33.3	0.0	0.0	0.0	0.0	100.0
Pope (N=3) (mean=2.33)	66.7	0.0	0.0	0.0	33.3	0.0	100.0
Stevens (N=0) (mean=NA)	NA	NA	NA	NA	NA	NA	NA
Traverse (N=1) (mean=5.00)	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Wilkin (N=0) (mean=NA)	NA	NA	NA	NA	NA	NA	NA

NOTE: NA = not applicable. Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 3 (Continued). Of respondents who said there are OUTDOOR AIR QUALITY factors they consider a problem, extent that factors have affected a household member's health

Outdoor air quality factors by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Transportation emissions or exhaust							
<i>Overall region (N=62) (mean=1.65)</i>	71.0	8.1	6.5	3.2	8.1	3.2	100.1
Clay (N=9) (mean=1.86)	55.6	0.0	11.1	0.0	11.1	22.2	100.0
Douglas (N=8) (mean=2.00)	62.5	0.0	25.0	0.0	12.5	0.0	100.0
Grant (N=5) (mean=1.20)	80.0	20.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=7) (mean=1.57)	71.4	14.3	0.0	14.3	0.0	0.0	100.0
Pope (N=11) (mean=1.73)	72.7	9.1	0.0	9.1	9.1	0.0	100.0
Stevens (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=9) (mean=1.56)	77.8	11.1	0.0	0.0	11.1	0.0	100.0
Wilkin (N=9) (mean=1.78)	66.7	11.1	11.1	0.0	11.1	0.0	100.0
Livestock, feedlot odor							
<i>Overall region (N=57) (mean=1.64)</i>	70.2	8.8	8.8	5.3	5.3	1.8	100.2
Clay (N=12) (mean=2.17)	58.3	8.3	0.0	25.0	8.3	0.0	99.9
Douglas (N=8) (mean=1.75)	62.5	0.0	37.5	0.0	0.0	0.0	100.0
Grant (N=1) (mean=3.00)	0.0	0.0	100.0	0.0	0.0	0.0	100.0
Otter Tail (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=11) (mean=2.00)	54.5	27.3	0.0	0.0	18.2	0.0	100.0
Stevens (N=10) (mean=1.00)	90.0	0.0	0.0	0.0	0.0	10.0	100.0
Traverse (N=8) (mean=1.38)	75.0	12.5	12.5	0.0	0.0	0.0	100.0
Wilkin (N=2) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Lagoon odor							
<i>Overall region (N=60) (mean=1.47)</i>	75.0	6.7	6.7	1.7	5.0	5.0	100.1
Clay (N=16) (mean=2.00)	50.0	12.5	18.8	6.3	6.3	6.3	100.2
Douglas (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=5) (mean=1.25)	60.0	20.0	0.0	0.0	0.0	20.0	100.0
Otter Tail (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=9) (mean=2.11)	66.7	0.0	11.1	0.0	22.2	0.0	100.0
Stevens (N=7) (mean=1.14)	85.7	14.3	0.0	0.0	0.0	0.0	100.0
Traverse (N=7) (mean=1.00)	85.7	0.0	0.0	0.0	0.0	14.3	100.0
Wilkin (N=6) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0

NOTE: NA = not applicable. Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 4. Degree that environmental health factors relating to INDOOR ENVIRONMENTAL QUALITY are considered a problem

Indoor environmental quality factors by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Environmental tobacco smoke (i.e., secondhand smoke)							
<i>Overall region (N=606) (mean=2.39)</i>	44.4	15.8	13.4	7.6	18.2	0.7	100.1
Clay (N=75) (mean=2.68)	34.7	14.7	18.7	9.3	21.3	1.3	100.0
Douglas (N=75) (mean=2.43)	41.3	21.3	9.3	9.3	18.7	0.0	99.9
Grant (N=75) (mean=2.32)	49.3	13.3	12.0	6.7	18.7	0.0	100.0
Otter Tail (N=75) (mean=2.45)	40.0	16.0	21.3	4.0	18.7	0.0	100.0
Pope (N=78) (mean=2.31)	43.6	19.2	10.3	6.4	16.7	3.8	100.0
Stevens (N=75) (mean=2.40)	42.7	18.7	13.3	6.7	18.7	0.0	100.1
Traverse (N=76) (mean=2.45)	46.1	10.5	14.5	10.5	18.4	0.0	100.0
Wilkin (N=77) (mean=2.09)	57.1	13.0	7.8	7.8	14.3	0.0	100.0
Mold							
<i>Overall region (N=606) (mean=2.25)</i>	40.1	20.3	19.6	8.1	9.4	2.5	100.0
Clay (N=75) (mean=2.52)	32.0	16.0	26.7	12.0	10.7	2.7	100.1
Douglas (N=75) (mean=2.18)	41.3	20.0	17.3	10.7	6.7	4.0	100.0
Grant (N=75) (mean=2.39)	34.7	20.0	22.7	13.3	8.0	1.3	100.0
Otter Tail (N=75) (mean=2.03)	42.7	25.3	17.3	4.0	6.7	4.0	100.0
Pope (N=78) (mean=2.00)	51.3	15.4	9.0	7.7	9.0	7.7	100.1
Stevens (N=75) (mean=2.21)	36.0	25.3	28.0	2.7	8.0	0.0	100.0
Traverse (N=76) (mean=2.61)	27.6	22.4	26.3	9.2	14.5	0.0	100.0
Wilkin (N=77) (mean=2.01)	54.5	18.2	10.4	5.2	11.7	0.0	100.0
Asbestos							
<i>Overall region (N=606) (mean=1.86)</i>	59.4	13.9	8.4	5.0	9.1	4.3	100.1
Clay (N=75) (mean=2.52)	38.7	12.0	17.3	9.3	17.3	5.3	99.9
Douglas (N=75) (mean=1.54)	68.0	10.7	8.0	2.7	4.0	6.7	100.1
Grant (N=75) (mean=2.05)	56.0	13.3	6.7	9.3	12.0	2.7	100.0
Otter Tail (N=75) (mean=1.65)	60.0	20.0	8.0	1.3	5.3	5.3	99.9
Pope (N=78) (mean=1.72)	60.3	15.4	5.1	1.3	9.0	9.0	100.1
Stevens (N=75) (mean=1.90)	52.0	24.0	8.0	5.3	8.0	2.7	100.0
Traverse (N=76) (mean=1.96)	60.5	9.2	11.8	6.6	10.5	1.3	99.9
Wilkin (N=77) (mean=1.50)	79.2	6.5	2.6	3.9	6.5	1.3	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 4 (Continued). Degree that environmental health factors relating to INDOOR ENVIRONMENTAL QUALITY are considered a problem

Indoor environmental quality factors by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Carbon monoxide							
<i>Overall region (N=606)</i> <i>(mean=1.79)</i>	60.4	17.2	9.9	3.1	7.9	1.5	100.0
Clay (N=75) <i>(mean=2.24)</i>	37.3	28.0	13.3	5.3	12.0	4.0	99.9
Douglas (N=75) <i>(mean=1.74)</i>	58.7	18.7	13.3	4.0	4.0	1.3	100.0
Grant (N=75) <i>(mean=1.85)</i>	61.3	12.0	16.0	1.3	9.3	0.0	99.9
Otter Tail (N=75) <i>(mean=1.77)</i>	57.3	24.0	8.0	1.3	8.0	1.3	99.9
Pope (N=78) <i>(mean=1.53)</i>	75.6	6.4	5.1	1.3	7.7	3.8	99.9
Stevens (N=75) <i>(mean=1.80)</i>	58.7	17.3	13.3	2.7	6.7	1.3	100.0
Traverse (N=76) <i>(mean=1.87)</i>	57.9	18.4	9.2	7.9	6.6	0.0	100.0
Wilkin (N=77) <i>(mean=1.56)</i>	75.3	13.0	1.3	1.3	9.1	0.0	100.0
Radon							
<i>Overall region (N=606)</i> <i>(mean=1.75)</i>	55.8	12.7	9.4	3.8	5.8	12.5	100.0
Clay (N=75) <i>(mean=1.97)</i>	42.7	14.7	14.7	6.7	4.0	17.3	100.1
Douglas (N=75) <i>(mean=1.75)</i>	49.3	12.0	9.3	4.0	4.0	21.3	99.9
Grant (N=75) <i>(mean=1.80)</i>	52.0	17.3	8.0	1.3	8.0	13.3	99.9
Otter Tail (N=75) <i>(mean=1.54)</i>	68.0	10.7	6.7	5.3	2.7	6.7	100.1
Pope (N=78) <i>(mean=1.80)</i>	52.6	10.3	10.3	5.1	5.1	16.7	100.1
Stevens (N=75) <i>(mean=1.94)</i>	49.3	17.3	10.7	2.7	9.3	10.7	100.0
Traverse (N=76) <i>(mean=1.69)</i>	59.2	13.2	13.2	2.6	3.9	7.9	100.0
Wilkin (N=77) <i>(mean=1.60)</i>	72.7	6.5	2.6	2.6	9.1	6.5	100.0
Lead							
<i>Overall region (N=606)</i> <i>(mean=1.69)</i>	64.4	13.9	8.4	3.3	6.4	3.6	100.0
Clay (N=75) <i>(mean=1.94)</i>	52.0	14.7	13.3	2.7	9.3	8.0	100.0
Douglas (N=75) <i>(mean=1.62)</i>	65.3	16.0	4.0	2.7	6.7	5.3	100.0
Grant (N=75) <i>(mean=1.85)</i>	57.3	18.7	8.0	5.3	8.0	2.7	100.0
Otter Tail (N=75) <i>(mean=1.63)</i>	68.0	13.3	12.0	1.3	5.3	0.0	99.9
Pope (N=78) <i>(mean=1.46)</i>	71.8	15.4	5.1	1.3	3.8	2.6	100.0
Stevens (N=75) <i>(mean=1.69)</i>	65.3	10.7	10.7	2.7	6.7	4.0	100.1
Traverse (N=76) <i>(mean=1.82)</i>	57.9	15.8	11.8	6.6	5.3	2.6	100.0
Wilkin (N=77) <i>(mean=1.51)</i>	76.6	6.5	2.6	3.9	6.5	3.9	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem."
"DNK/refused" is excluded from the mean.

Appendix Table 5. Of respondents who said there are INDOOR ENVIRONMENTAL QUALITY factors they consider a problem, level of priority in addressing each problem

Indoor environmental quality factors by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/ refused	Total
Environmental tobacco smoke (i.e., secondhand smoke)					
<i>Overall region (N=156)</i>	3.2	19.2	76.3	1.3	100.0
Clay (N=23)	4.3	17.4	78.3	0.0	100.0
Douglas (N=21)	4.8	14.3	81.0	0.0	100.1
Grant (N=19)	5.3	21.1	73.7	0.0	100.1
Otter Tail (N=17)	0.0	23.5	76.5	0.0	100.0
Pope (N=18)	0.0	5.6	94.4	0.0	100.0
Stevens (N=19)	5.3	15.8	78.9	0.0	100.0
Traverse (N=22)	4.5	27.3	59.1	9.1	100.0
Wilkin (N=17)	0.0	29.4	70.6	0.0	100.0
Carbon monoxide					
<i>Overall region (N=67)</i>	3.0	22.4	74.6	0.0	100.0
Clay (N=13)	0.0	30.8	69.2	0.0	100.0
Douglas (N=6)	0.0	33.3	66.7	0.0	100.0
Grant (N=8)	12.5	12.5	75.0	0.0	100.0
Otter Tail (N=7)	0.0	57.1	42.9	0.0	100.0
Pope (N=7)	0.0	0.0	100.0	0.0	100.0
Stevens (N=7)	14.3	14.3	71.4	0.0	100.0
Traverse (N=11)	0.0	27.3	72.7	0.0	100.0
Wilkin (N=8)	0.0	0.0	100.0	0.0	100.0
Lead					
<i>Overall region (N=59)</i>	5.1	20.3	74.6	0.0	100.0
Clay (N=9)	0.0	33.3	66.7	0.0	100.0
Douglas (N=7)	0.0	14.3	85.7	0.0	100.0
Grant (N=10)	0.0	30.0	70.0	0.0	100.0
Otter Tail (N=5)	0.0	20.0	80.0	0.0	100.0
Pope (N=4)	0.0	0.0	100.0	0.0	100.0
Stevens (N=7)	28.6	14.3	57.1	0.0	100.0
Traverse (N=9)	11.1	22.2	66.7	0.0	100.0
Wilkin (N=8)	0.0	12.5	87.5	0.0	100.0
Asbestos					
<i>Overall region (N=85)</i>	2.4	20.0	72.9	4.7	100.0
Clay (N=20)	0.0	35.0	65.0	0.0	100.0
Douglas (N=5)	20.0	40.0	40.0	0.0	100.0
Grant (N=16)	0.0	0.0	81.3	18.8	100.1
Otter Tail (N=5)	0.0	20.0	80.0	0.0	100.0
Pope (N=8)	0.0	0.0	100.0	0.0	100.0
Stevens (N=10)	10.0	30.0	60.0	0.0	100.0
Traverse (N=13)	0.0	30.8	61.5	7.7	100.0
Wilkin (N=8)	0.0	0.0	100.0	0.0	100.0
Mold					
<i>Overall region (N=106)</i>	4.7	24.5	68.9	1.9	100.0
Clay (N=17)	5.9	29.4	64.7	0.0	100.0
Douglas (N=13)	0.0	30.8	69.2	0.0	100.0
Grant (N=16)	12.5	18.8	62.5	6.3	100.1
Otter Tail (N=8)	0.0	62.5	37.5	0.0	100.0
Pope (N=13)	0.0	23.1	76.9	0.0	100.0
Stevens (N=8)	12.5	0.0	75.0	12.5	100.0
Traverse (N=18)	5.6	27.8	66.7	0.0	100.1
Wilkin (N=13)	0.0	7.7	92.3	0.0	100.0

Appendix Table 5 (Continued). Of respondents who said there are INDOOR ENVIRONMENTAL QUALITY factors they consider a problem, level of priority in addressing each problem

Indoor environmental quality factors by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Radon					
<i>Overall region (N=58)</i>	6.9	25.9	63.8	3.4	100.0
Clay (N=8)	12.5	25.0	50.0	12.5	100.0
Douglas (N=6)	0.0	16.7	83.3	0.0	100.0
Grant (N=7)	0.0	42.9	42.9	14.3	100.1
Otter Tail (N=6)	33.3	33.3	33.3	0.0	99.9
Pope (N=8)	0.0	25.0	75.0	0.0	100.0
Stevens (N=9)	0.0	11.1	88.9	0.0	100.0
Traverse (N=5)	0.0	20.0	80.0	0.0	100.0
Wilkin (N=9)	11.1	33.3	55.6	0.0	100.0

Appendix Table 6. Of respondents who said there are INDOOR ENVIRONMENTAL QUALITY factors they consider a problem, extent that factors have affected a household member's health

Indoor environmental quality factors by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Environmental tobacco smoke (i.e., secondhand smoke)							
<i>Overall region (N=156) (mean=2.45)</i>	53.2	5.8	7.7	7.7	25.0	0.6	100.0
Clay (N=23) (mean=2.65)	43.5	4.3	17.4	13.0	21.7	0.0	99.9
Douglas (N=21) (mean=2.62)	52.4	9.5	0.0	0.0	38.1	0.0	100.0
Grant (N=19) (mean=1.63)	78.9	0.0	10.5	0.0	10.5	0.0	99.9
Otter Tail (N=17) (mean=3.00)	47.1	0.0	5.9	0.0	47.1	0.0	100.1
Pope (N=18) (mean=2.39)	61.1	0.0	5.6	5.6	27.8	0.0	100.1
Stevens (N=19) (mean=2.37)	52.6	5.3	10.5	15.8	15.8	0.0	100.0
Traverse (N=22) (mean=2.29)	54.5	4.5	4.5	18.2	13.6	4.5	99.8
Wilkin (N=17) (mean=2.71)	35.3	23.5	5.9	5.9	29.4	0.0	100.0
Mold							
<i>Overall region (N=106) (mean=2.34)</i>	58.5	3.8	5.7	9.4	22.6	0.0	100.0
Clay (N=17) (mean=2.47)	58.8	5.9	0.0	0.0	35.3	0.0	100.0
Douglas (N=13) (mean=2.85)	46.2	0.0	7.7	15.4	30.8	0.0	100.1
Grant (N=16) (mean=1.94)	68.8	0.0	12.5	6.3	12.5	0.0	100.1
Otter Tail (N=8) (mean=1.38)	75.0	12.5	12.5	0.0	0.0	0.0	100.0
Pope (N=13) (mean=2.77)	46.2	0.0	7.7	23.1	23.1	0.0	100.1
Stevens (N=8) (mean=2.13)	62.5	12.5	0.0	0.0	25.0	0.0	100.0
Traverse (N=18) (mean=2.22)	61.1	5.6	0.0	16.7	16.7	0.0	100.1
Wilkin (N=13) (mean=2.62)	53.8	0.0	7.7	7.7	30.8	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 6 (Continued). Of respondents who said there re INDOOR ENVIRONMENTAL QUALITY factors they consider a problem, extent that factors have affected a household member's health

Indoor environmental quality factors by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Carbon monoxide							
<i>Overall region (N=67) (mean=1.57)</i>	77.6	3.0	4.5	4.5	7.5	3.0	100.1
Clay (N=13) (mean=1.42)	76.9	0.0	7.7	7.7	0.0	7.7	100.0
Douglas (N=6) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=8) (mean=1.50)	87.5	0.0	0.0	0.0	12.5	0.0	100.0
Otter Tail (N=7) (mean=1.71)	71.4	14.3	0.0	0.0	14.3	0.0	100.0
Pope (N=7) (mean=2.86)	42.9	0.0	14.3	14.3	28.6	0.0	100.1
Stevens (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=11) (mean=1.60)	63.6	9.1	9.1	9.1	0.0	9.1	100.0
Wilkin (N=8) (mean=1.50)	87.5	0.0	0.0	0.0	12.5	0.0	100.0
Asbestos							
<i>Overall region (N=85) (mean=1.49)</i>	80.0	1.2	5.9	3.5	5.9	3.5	100.0
Clay (N=20) (mean=1.16)	90.0	0.0	0.0	5.0	0.0	5.0	100.0
Douglas (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=16) (mean=1.38)	81.3	6.3	6.3	6.3	0.0	0.0	100.2
Otter Tail (N=5) (mean=1.40)	80.0	0.0	20.0	0.0	0.0	0.0	100.0
Pope (N=8) (mean=2.71)	37.5	0.0	25.0	0.0	25.0	12.5	100.0
Stevens (N=10) (mean=1.44)	80.0	0.0	0.0	0.0	10.0	10.0	100.0
Traverse (N=13) (mean=1.46)	84.6	0.0	7.7	0.0	7.7	0.0	100.0
Wilkin (N=8) (mean=1.88)	75.0	0.0	0.0	12.5	12.5	0.0	100.0
Radon							
<i>Overall region (N=58) (mean=1.26)</i>	91.4	1.7	1.7	0.0	5.2	0.0	100.0
Clay (N=8) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Douglas (N=6) (mean=2.00)	66.7	0.0	16.7	0.0	16.7	0.0	100.1
Grant (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=6) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=8) (mean=1.50)	87.5	0.0	0.0	0.0	12.5	0.0	100.0
Stevens (N=9) (mean=1.44)	88.9	0.0	0.0	0.0	11.1	0.0	100.0
Traverse (N=5) (mean=1.20)	80.0	20.0	0.0	0.0	0.0	0.0	100.0
Wilkin (N=9) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Lead							
<i>Overall region (N=59) (mean=1.20)</i>	86.4	1.7	3.4	3.4	0.0	5.1	100.0
Clay (N=9) (mean=1.00)	77.8	0.0	0.0	0.0	0.0	22.2	100.0
Douglas (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=10) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=4) (mean=1.75)	75.0	0.0	0.0	25.0	0.0	0.0	100.0
Stevens (N=7) (mean=1.00)	85.7	0.0	0.0	0.0	0.0	14.3	100.0
Traverse (N=9) (mean=1.56)	66.7	11.1	22.2	0.0	0.0	0.0	100.0
Wilkin (N=8) (mean=1.38)	87.5	0.0	0.0	12.5	0.0	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 7. Degree that environmental health factors relating to PUBLIC HEALTH NUISANCES are considered a problem

Public health nuisances by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Mosquitoes and other insects							
<i>Overall region (N=606) (mean=3.35)</i>	8.1	15.3	32.3	20.8	22.9	0.5	99.9
Clay (N=75) (mean=3.44)	8.0	10.7	36.0	20.0	25.3	0.0	100.0
Douglas (N=75) (mean=3.27)	12.0	17.3	29.3	14.7	26.7	0.0	100.0
Grant (N=75) (mean=3.11)	12.0	12.0	42.7	17.3	14.7	1.3	100.0
Otter Tail (N=75) (mean=3.63)	2.7	9.3	38.7	21.3	28.0	0.0	100.0
Pope (N=78) (mean=3.23)	10.3	15.4	33.3	23.1	17.9	0.0	100.0
Stevens (N=75) (mean=3.20)	8.0	25.3	25.3	18.7	21.3	1.3	99.9
Traverse (N=76) (mean=3.63)	7.9	10.5	23.7	26.3	31.6	0.0	100.0
Wilkin (N=77) (mean=3.32)	3.9	22.1	29.9	24.7	18.2	1.3	100.1
Meth labs							
<i>Overall region (N=606) (mean=2.94)</i>	24.6	15.2	18.0	12.0	23.3	6.9	100.0
Clay (N=75) (mean=3.06)	29.3	9.3	10.7	14.7	29.3	6.7	100.0
Douglas (N=75) (mean=2.96)	22.7	18.7	14.7	12.0	24.0	8.0	100.1
Grant (N=75) (mean=3.01)	21.3	18.7	16.0	9.3	26.7	8.0	100.0
Otter Tail (N=75) (mean=3.03)	20.0	12.0	26.7	12.0	21.3	8.0	100.0
Pope (N=78) (mean=2.97)	23.1	19.2	14.1	14.1	24.4	5.1	100.0
Stevens (N=75) (mean=3.07)	20.0	13.3	22.7	14.7	22.7	6.7	100.1
Traverse (N=76) (mean=3.03)	21.1	14.5	25.0	9.2	25.0	5.3	100.1
Wilkin (N=77) (mean=2.38)	39.0	15.6	14.3	10.4	13.0	7.8	100.1
Garbage/junk houses							
<i>Overall region (N=606) (mean=1.96)</i>	48.3	22.8	15.8	4.5	6.6	2.0	100.0
Clay (N=75) (mean=2.15)	36.0	26.7	25.3	2.7	6.7	2.7	100.1
Douglas (N=75) (mean=1.74)	60.0	17.3	10.7	0.0	8.0	4.0	100.0
Grant (N=75) (mean=1.92)	49.3	14.7	21.3	8.0	1.3	5.3	99.9
Otter Tail (N=75) (mean=1.99)	45.3	26.7	16.0	4.0	6.7	1.3	100.0
Pope (N=78) (mean=1.99)	50.0	24.4	10.3	3.8	10.3	1.3	100.1
Stevens (N=75) (mean=1.89)	49.3	24.0	14.7	8.0	2.7	1.3	100.0
Traverse (N=76) (mean=2.38)	32.9	27.6	19.7	7.9	11.8	0.0	99.9
Wilkin (N=77) (mean=1.64)	63.6	20.8	9.1	1.3	5.2	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 7 (Continued). Degree that environmental health factors relating to PUBLIC HEALTH NUISANCES are considered a problem

Public health nuisances by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Improper disposal of hazardous waste							
<i>Overall region (N=606) (mean=1.91)</i>	54.6	17.5	12.0	4.1	8.6	3.1	99.9
Clay (N=75) <i>(mean=2.38)</i>	42.7	18.7	10.7	10.7	16.0	1.3	100.1
Douglas (N=75) <i>(mean=1.85)</i>	50.7	20.0	10.7	1.3	8.0	9.3	100.0
Grant (N=75) <i>(mean=1.94)</i>	56.0	13.3	13.3	2.7	10.7	4.0	100.0
Otter Tail (N=75) <i>(mean=1.92)</i>	44.0	26.7	21.3	1.3	4.0	2.7	100.0
Pope (N=78) <i>(mean=1.87)</i>	62.8	12.8	6.4	2.6	12.8	2.6	100.0
Stevens (N=75) <i>(mean=2.01)</i>	48.0	17.3	18.7	5.3	6.7	4.0	100.0
Traverse (N=76) <i>(mean=1.85)</i>	59.2	15.8	9.2	7.9	6.6	1.3	100.0
Wilkin (N=77) <i>(mean=1.48)</i>	72.7	15.6	6.5	1.3	3.9	0.0	100.0
Animals/rodents							
<i>Overall region (N=606) (mean=1.77)</i>	52.5	27.6	13.7	3.0	3.1	0.2	100.1
Clay (N=75) <i>(mean=1.84)</i>	45.3	32.0	16.0	2.7	2.7	1.3	100.0
Douglas (N=75) <i>(mean=1.80)</i>	53.3	22.7	16.0	6.7	1.3	0.0	100.0
Grant (N=75) <i>(mean=1.79)</i>	50.7	29.3	13.3	4.0	2.7	0.0	100.0
Otter Tail (N=75) <i>(mean=1.85)</i>	48.0	28.0	18.7	1.3	4.0	0.0	100.0
Pope (N=78) <i>(mean=1.60)</i>	61.5	24.4	9.0	2.6	2.6	0.0	100.1
Stevens (N=75) <i>(mean=1.72)</i>	53.3	28.0	13.3	4.0	1.3	0.0	99.9
Traverse (N=76) <i>(mean=1.88)</i>	48.7	30.3	11.8	2.6	6.6	0.0	100.0
Wilkin (N=77) <i>(mean=1.65)</i>	58.4	26.0	11.7	0.0	3.9	0.0	100.0
Illegal/open dumps							
<i>Overall region (N=606) (mean=1.57)</i>	67.7	13.0	8.6	2.6	4.1	4.0	100.0
Clay (N=75) <i>(mean=1.81)</i>	53.3	18.7	9.3	5.3	5.3	8.0	99.9
Douglas (N=75) <i>(mean=1.47)</i>	69.3	17.3	4.0	1.3	4.0	4.0	99.9
Grant (N=75) <i>(mean=1.60)</i>	66.7	9.3	14.7	2.7	2.7	4.0	100.1
Otter Tail (N=75) <i>(mean=1.68)</i>	61.3	17.3	10.7	4.0	4.0	2.7	100.0
Pope (N=78) <i>(mean=1.68)</i>	69.2	7.7	9.0	1.3	9.0	3.8	100.0
Stevens (N=75) <i>(mean=1.40)</i>	74.7	12.0	5.3	0.0	4.0	4.0	100.0
Traverse (N=76) <i>(mean=1.58)</i>	65.8	14.5	10.5	5.3	1.3	2.6	100.0
Wilkin (N=77) <i>(mean=1.33)</i>	80.5	7.8	5.2	1.3	2.6	2.6	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem."
 "DNK/refused" is excluded from the mean.

Appendix Table 8. Of respondents who said there are PUBLIC HEALTH NUISANCES they consider a problem, level of priority in addressing each problem

Public health nuisances by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/ refused	Total
Meth labs					
<i>Overall region (N=214)</i>	1.9	7.0	90.7	0.5	100.1
Clay (N=33)	0.0	12.1	87.9	0.0	100.0
Douglas (N=27)	3.7	7.4	88.9	0.0	100.0
Grant (N=27)	0.0	3.7	92.6	3.7	100.0
Otter Tail (N=25)	0.0	8.0	92.0	0.0	100.0
Pope (N=30)	0.0	0.0	100.0	0.0	100.0
Stevens (N=28)	3.6	14.3	82.1	0.0	100.0
Traverse (N=26)	7.7	7.7	84.6	0.0	100.0
Wilkin (N=18)	0.0	0.0	100.0	0.0	100.0
Improper disposal of hazardous waste					
<i>Overall region (N=77)</i>	5.2	19.5	74.0	1.3	100.0
Clay (N=20)	5.0	30.0	60.0	5.0	100.0
Douglas (N=7)	14.3	14.3	71.4	0.0	100.0
Grant (N=10)	0.0	10.0	90.0	0.0	100.0
Otter Tail (N=4)	0.0	25.0	75.0	0.0	100.0
Pope (N=12)	0.0	8.3	91.7	0.0	100.0
Stevens (N=9)	22.2	22.2	55.6	0.0	100.0
Traverse (N=11)	0.0	27.3	72.7	0.0	100.0
Wilkin (N=4)	0.0	0.0	100.0	0.0	100.0
Illegal/open dumps					
<i>Overall region (N=41)</i>	9.8	19.5	65.9	4.9	100.1
Clay (N=8)	12.5	12.5	75.0	0.0	100.0
Douglas (N=4)	0.0	50.0	50.0	0.0	100.0
Grant (N=4)	50.0	0.0	50.0	0.0	100.0
Otter Tail (N=6)	16.7	33.3	50.0	0.0	100.0
Pope (N=8)	0.0	12.5	87.5	0.0	100.0
Stevens (N=3)	0.0	0.0	66.7	33.3	100.0
Traverse (N=5)	0.0	40.0	40.0	20.0	100.0
Wilkin (N=3)	0.0	0.0	100.0	0.0	100.0
Mosquitoes and other insects					
<i>Overall region (N=265)</i>	7.5	29.4	61.9	1.1	99.9
Clay (N=34)	2.9	29.4	67.6	0.0	99.9
Douglas (N=31)	9.7	32.3	58.1	0.0	100.1
Grant (N=24)	4.2	33.3	58.3	4.2	100.0
Otter Tail (N=37)	13.5	35.1	51.4	0.0	100.0
Pope (N=32)	9.4	28.1	62.5	0.0	100.0
Stevens (N=30)	16.7	26.7	50.0	6.7	100.1
Traverse (N=44)	2.3	25.0	72.7	0.0	100.0
Wilkin (N=33)	3.0	27.3	69.7	0.0	100.0
Garbage/junk houses					
<i>Overall region (N=67)</i>	10.4	26.9	61.2	1.5	100.0
Clay (N=7)	0.0	42.9	57.1	0.0	100.0
Douglas (N=6)	0.0	33.3	66.7	0.0	100.0
Grant (N=7)	14.3	42.9	28.6	14.3	100.1
Otter Tail (N=8)	12.5	25.0	62.5	0.0	100.0
Pope (N=11)	0.0	27.3	72.7	0.0	100.0
Stevens (N=8)	25.0	25.0	50.0	0.0	100.0
Traverse (N=15)	13.3	13.3	73.3	0.0	99.9
Wilkin (N=5)	20.0	20.0	60.0	0.0	100.0

Appendix Table 8 (Continued). Of respondents who said there are PUBLIC HEALTH NUISANCES they consider a problem, level of priority in addressing each problem

Public health nuisances by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Animals/rodents					
<i>Overall region (N=37)</i>	5.4	45.9	45.9	2.7	99.9
Clay (N=4)	0.0	50.0	50.0	0.0	100.0
Douglas (N=6)	0.0	50.0	50.0	0.0	100.0
Grant (N=5)	0.0	60.0	20.0	20.0	100.0
Otter Tail (N=4)	25.0	25.0	50.0	0.0	100.0
Pope (N=4)	0.0	50.0	50.0	0.0	100.0
Stevens (N=4)	0.0	100.0	0.0	0.0	100.0
Traverse (N=7)	14.3	28.6	57.1	0.0	100.0
Wilkin (N=3)	0.0	0.0	100.0	0.0	100.0

Appendix Table 9. Of respondents who said there are PUBLIC HEALTH NUISANCES they consider a problem, extent that factors have affected a household member's health

Public health nuisances by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Mosquitoes and other insects							
<i>Overall region (N=265) (mean=1.66)</i>	69.8	8.3	9.8	6.0	4.9	1.1	99.9
Clay (N=34) (mean=1.73)	61.8	11.8	14.7	5.9	2.9	2.9	100.0
Douglas (N=31) (mean=1.94)	67.7	6.5	3.2	9.7	12.9	0.0	100.0
Grant (N=24) (mean=1.25)	87.5	0.0	12.5	0.0	0.0	0.0	100.0
Otter Tail (N=37) (mean=2.14)	45.9	18.9	16.2	13.5	5.4	0.0	99.9
Pope (N=32) (mean=2.09)	59.4	6.3	12.5	9.4	12.5	0.0	100.1
Stevens (N=30) (mean=1.54)	73.3	3.3	6.7	6.7	3.3	6.7	100.0
Traverse (N=44) (mean=1.34)	79.5	11.4	6.8	0.0	2.3	0.0	100.0
Wilkin (N=33) (mean=1.24)	87.9	3.0	6.1	3.0	0.0	0.0	100.0
Animals/rodents							
<i>Overall region (N=37) (mean=1.56)</i>	70.3	10.8	10.8	0.0	5.4	2.7	100.0
Clay (N=4) (mean=2.00)	75.0	0.0	0.0	0.0	25.0	0.0	100.0
Douglas (N=6) (mean=1.17)	83.3	16.7	0.0	0.0	0.0	0.0	100.0
Grant (N=5) (mean=1.40)	80.0	0.0	20.0	0.0	0.0	0.0	100.0
Otter Tail (N=4) (mean=2.25)	50.0	25.0	0.0	0.0	25.0	0.0	100.0
Pope (N=4) (mean=2.00)	50.0	0.0	50.0	0.0	0.0	0.0	100.0
Stevens (N=4) (mean=1.67)	50.0	0.0	25.0	0.0	0.0	25.0	100.0
Traverse (N=7) (mean=1.29)	71.4	28.6	0.0	0.0	0.0	0.0	100.0
Wilkin (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 9 (Continued). Of respondents who said there are PUBLIC HEALTH NUISANCES they consider a problem, extent that factors have affected a household member's health

Public health nuisances by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Garbage/junk houses							
<i>Overall region (N=67) (mean=1.48)</i>	80.6	4.5	0.0	6.0	6.0	3.0	100.1
Clay (N=7) (mean=1.17)	71.4	14.3	0.0	0.0	0.0	14.3	100.0
Douglas (N=6) (mean=1.50)	83.3	0.0	0.0	16.7	0.0	0.0	100.0
Grant (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=8) (mean=1.13)	87.5	12.5	0.0	0.0	0.0	0.0	100.0
Pope (N=11) (mean=2.09)	72.7	0.0	0.0	0.0	27.3	0.0	100.0
Stevens (N=8) (mean=1.75)	75.0	0.0	0.0	25.0	0.0	0.0	100.0
Traverse (N=15) (mean=1.27)	86.7	6.7	0.0	6.7	0.0	0.0	100.1
Wilkin (N=5) (mean=2.00)	60.0	0.0	0.0	0.0	20.0	20.0	100.0
Improper disposal of hazardous waste							
<i>Overall region (N=77) (mean=1.32)</i>	83.1	7.8	1.3	0.0	5.2	2.6	100.0
Clay (N=20) (mean=1.39)	70.0	15.0	0.0	0.0	5.0	10.0	100.0
Douglas (N=7) (mean=1.57)	85.7	0.0	0.0	0.0	14.3	0.0	100.0
Grant (N=10) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=4) (mean=2.25)	50.0	25.0	0.0	0.0	25.0	0.0	100.0
Pope (N=12) (mean=1.58)	75.0	8.3	8.3	0.0	8.3	0.0	99.9
Stevens (N=9) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=11) (mean=1.09)	90.9	9.1	0.0	0.0	0.0	0.0	100.0
Wilkin (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Illegal/open dumps							
<i>Overall region (N=41) (mean=1.15)</i>	87.8	4.9	4.9	0.0	0.0	2.4	100.0
Clay (N=8) (mean=1.14)	75.0	12.5	0.0	0.0	0.0	12.5	100.0
Douglas (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=6) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=8) (mean=1.63)	62.5	12.5	25.0	0.0	0.0	0.0	100.0
Stevens (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Wilkin (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Meth labs							
<i>Overall region (N=214) (mean=1.13)</i>	93.9	2.3	0.0	0.9	1.9	0.9	99.9
Clay (N=33) (mean=1.19)	90.9	0.0	0.0	6.1	0.0	3.0	100.0
Douglas (N=27) (mean=1.04)	96.3	3.7	0.0	0.0	0.0	0.0	100.0
Grant (N=27) (mean=1.15)	96.3	0.0	0.0	0.0	3.7	0.0	100.0
Otter Tail (N=25) (mean=1.04)	96.0	4.0	0.0	0.0	0.0	0.0	100.0
Pope (N=30) (mean=1.34)	83.3	6.7	0.0	0.0	6.7	3.3	100.0
Stevens (N=28) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=26) (mean=1.04)	96.2	3.8	0.0	0.0	0.0	0.0	100.0
Wilkin (N=18) (mean=1.22)	94.4	0.0	0.0	0.0	5.6	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 10. Whether respondent's community has a collection site for household hazardous waste

County	Percent of respondents by Response			
	Yes	No	DNK	Total
<i>Overall region (N=606)</i>	86.8	7.8	5.4	100.0
Clay (N=75)	84.0	9.3	6.7	100.0
Douglas (N=75)	96.0	2.7	1.3	100.0
Grant (N=75)	92.0	2.7	5.3	100.0
Otter Tail (N=75)	89.3	2.7	8.0	100.0
Pope (N=78)	69.2	19.2	11.5	99.9
Stevens (N=75)	98.7	0.0	1.3	100.0
Traverse (N=76)	78.9	14.5	6.6	100.0
Wilkin (N=77)	87.0	10.4	2.6	100.0

Appendix Table 11. Of respondents who said their community has a collection site for household hazardous waste, whether the hours are convenient

County	Percent of respondents by Response			
	Yes	No	DNK	Total
<i>Overall region (N=526)</i>	82.3	11.8	5.9	100.0
Clay (N=63)	76.2	20.6	3.2	100.0
Douglas (N=72)	95.8	1.4	2.8	100.0
Grant (N=69)	73.9	17.4	8.7	100.0
Otter Tail (N=67)	79.1	13.4	7.5	100.0
Pope (N=54)	83.3	11.1	5.6	100.0
Stevens (N=74)	82.4	12.2	5.4	100.0
Traverse (N=60)	76.7	13.3	10.0	100.0
Wilkin (N=67)	89.6	6.0	4.5	100.1

Appendix Table 12. Of respondents who said their community has a collection site for household hazardous waste, how often respondent disposes of household hazardous waste at the collection site

County	Percent of respondents by Response						
	Never (1)	(2)	(3)	(4)	All of the time (5)	DNK/refused	Total
<i>Overall region (N=526)</i> <i>(mean=3.44)</i>	15.0	15.2	22.2	6.7	39.7	1.1	99.9
Clay (N=63) <i>(mean=3.17)</i>	14.3	27.0	17.5	12.7	25.4	3.2	100.1
Douglas (N=72) <i>(mean=3.40)</i>	9.7	19.4	27.8	8.3	33.3	1.4	99.9
Grant (N=69) <i>(mean=3.74)</i>	13.0	11.6	17.4	4.3	53.6	0.0	99.9
Otter Tail (N=67) <i>(mean=3.40)</i>	14.9	13.4	28.4	3.0	40.3	0.0	100.0
Pope (N=54) <i>(mean=3.59)</i>	14.8	5.6	29.6	5.6	44.4	0.0	100.0
Stevens (N=74) <i>(mean=3.45)</i>	23.0	8.1	17.6	4.1	47.3	0.0	100.1
Traverse (N=60) <i>(mean=3.30)</i>	18.3	20.0	16.7	6.7	35.0	3.3	100.0
Wilkin (N=67) <i>(mean=3.48)</i>	11.9	16.4	23.9	9.0	37.3	1.5	100.0

NOTE: Means are based on a one to five scale, with one being "never" and five being "all of the time." "DNK/refused" is excluded from the mean.

Appendix Table 13. Degree that environmental health factors relating to RECREATIONAL WATER are considered a problem

Recreational water issues by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Agricultural runoff							
<i>Overall region (N=606)</i> <i>(mean=2.43)</i>	31.2	22.3	22.1	10.9	9.4	4.1	100.0
Clay (N=75) <i>(mean=2.36)</i>	24.0	33.3	17.3	12.0	5.3	8.0	99.9
Douglas (N=75) <i>(mean=2.66)</i>	24.0	22.7	24.0	9.3	14.7	5.3	100.0
Grant (N=75) <i>(mean=2.33)</i>	40.0	17.3	16.0	12.0	10.7	4.0	100.0
Otter Tail (N=75) <i>(mean=2.41)</i>	32.0	21.3	26.7	10.7	8.0	1.3	100.0
Pope (N=78) <i>(mean=2.72)</i>	28.2	16.7	23.1	12.8	16.7	2.6	100.1
Stevens (N=75) <i>(mean=2.44)</i>	25.3	24.0	32.0	12.0	4.0	2.7	100.0
Traverse (N=76) <i>(mean=2.50)</i>	28.9	21.1	23.7	10.5	10.5	5.3	100.0
Wilkin (N=77) <i>(mean=1.99)</i>	46.8	22.1	14.3	7.8	5.2	3.9	100.1
Fertilizer runoff							
<i>Overall region (N=606)</i> <i>(mean=2.29)</i>	32.2	23.6	22.6	9.7	5.8	6.1	100.0
Clay (N=75) <i>(mean=2.31)</i>	29.3	24.0	22.7	9.3	5.3	9.3	99.9
Douglas (N=75) <i>(mean=2.54)</i>	21.3	26.7	30.7	6.7	9.3	5.3	100.0
Grant (N=75) <i>(mean=2.13)</i>	42.7	18.7	20.0	9.3	5.3	4.0	100.0
Otter Tail (N=75) <i>(mean=2.22)</i>	29.3	25.3	24.0	10.7	1.3	9.3	99.9
Pope (N=78) <i>(mean=2.57)</i>	29.5	16.7	26.9	9.0	12.8	5.1	100.0
Stevens (N=75) <i>(mean=2.27)</i>	30.7	26.7	22.7	10.7	4.0	5.3	100.1
Traverse (N=76) <i>(mean=2.36)</i>	30.3	26.3	19.7	14.5	5.3	3.9	100.0
Wilkin (N=77) <i>(mean=1.93)</i>	44.2	24.7	14.3	7.8	2.6	6.5	100.1
Industry runoff							
<i>Overall region (N=606)</i> <i>(mean=1.79)</i>	57.6	13.0	12.4	4.1	5.8	7.1	100.0
Clay (N=75) <i>(mean=2.27)</i>	36.0	20.0	24.0	2.7	10.7	6.7	100.1
Douglas (N=75) <i>(mean=1.72)</i>	50.7	21.3	8.0	1.3	5.3	13.3	99.9
Grant (N=75) <i>(mean=1.63)</i>	64.0	9.3	8.0	5.3	4.0	9.3	99.9
Otter Tail (N=75) <i>(mean=1.78)</i>	58.7	13.3	16.0	2.7	5.3	4.0	100.0
Pope (N=78) <i>(mean=1.73)</i>	65.4	6.4	10.3	5.1	6.4	6.4	100.0
Stevens (N=75) <i>(mean=1.63)</i>	62.7	14.7	10.7	2.7	4.0	5.3	100.1
Traverse (N=76) <i>(mean=1.79)</i>	67.1	7.9	9.2	6.6	7.9	1.3	100.0
Wilkin (N=77) <i>(mean=1.75)</i>	55.8	11.7	13.0	6.5	2.6	10.4	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem."
"DNK/refused" is excluded from the mean.

Appendix Table 13 (Continued). Degree that environmental health factors relating to RECREATIONAL WATER are considered a problem

Recreational water issues by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Improper sewage disposal							
<i>Overall region (N=606) (mean=1.78)</i>	56.8	17.3	11.2	4.1	5.4	5.1	99.9
Clay (N=75) (mean=1.97)	46.7	17.3	16.0	8.0	4.0	8.0	100.0
Douglas (N=75) (mean=1.71)	58.7	20.0	5.3	1.3	8.0	6.7	100.0
Grant (N=75) (mean=1.82)	61.3	14.7	6.7	6.7	8.0	2.7	100.1
Otter Tail (N=75) (mean=1.84)	50.7	17.3	16.0	4.0	4.0	8.0	100.0
Pope (N=78) (mean=2.03)	43.6	23.1	15.4	3.8	7.7	6.4	100.0
Stevens (N=75) (mean=1.69)	60.0	20.0	12.0	2.7	4.0	1.3	100.0
Traverse (N=76) (mean=1.91)	56.6	14.5	13.2	5.3	7.9	2.6	100.1
Wilkin (N=77) (mean=1.27)	76.6	11.7	5.2	1.3	0.0	5.2	100.0
Overuse of recreational water by campers and boaters							
<i>Overall region (N=606) (mean=1.77)</i>	52.8	21.5	15.0	3.5	3.0	4.3	100.1
Clay (N=75) (mean=1.92)	40.0	20.0	20.0	6.7	0.0	13.3	100.0
Douglas (N=75) (mean=2.04)	44.0	22.7	18.7	6.7	5.3	2.7	100.1
Grant (N=75) (mean=1.67)	58.7	24.0	6.7	4.0	4.0	2.7	100.1
Otter Tail (N=75) (mean=2.08)	34.7	26.7	28.0	5.3	1.3	4.0	100.0
Pope (N=78) (mean=1.97)	46.2	24.4	21.8	1.3	6.4	0.0	100.1
Stevens (N=75) (mean=1.54)	62.7	25.3	6.7	1.3	2.7	1.3	100.0
Traverse (N=76) (mean=1.45)	68.4	13.2	13.2	1.3	0.0	3.9	100.0
Wilkin (N=77) (mean=1.49)	67.5	15.6	5.2	1.3	3.9	6.5	100.0
Lakes and swimming beaches							
<i>Overall region (N=606) (mean=1.72)</i>	54.6	22.4	13.7	3.8	2.1	3.3	99.9
Clay (N=75) (mean=1.72)	45.3	30.7	10.7	2.7	1.3	9.3	100.0
Douglas (N=75) (mean=1.66)	57.3	25.3	10.7	2.7	2.7	1.3	100.0
Grant (N=75) (mean=1.74)	57.3	18.7	12.0	4.0	4.0	4.0	100.0
Otter Tail (N=75) (mean=1.65)	53.3	28.0	16.0	1.3	0.0	1.3	99.9
Pope (N=78) (mean=1.91)	51.3	19.2	19.2	7.7	2.6	0.0	100.0
Stevens (N=75) (mean=1.62)	57.3	25.3	10.7	2.7	1.3	2.7	100.0
Traverse (N=76) (mean=2.05)	48.7	17.1	19.7	9.2	5.3	0.0	100.0
Wilkin (N=77) (mean=1.39)	66.2	15.6	10.4	0.0	0.0	7.8	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 13 (Continued). Degree that environmental health factors relating to RECREATIONAL WATER are considered a problem

Recreational water issues by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Public pools and spas							
<i>Overall region (N=606) (mean=1.35)</i>	72.9	11.2	5.6	1.7	1.2	7.4	100.0
Clay (N=75) (mean=1.68)	52.0	21.3	5.3	5.3	2.7	13.3	99.9
Douglas (N=75) (mean=1.46)	61.3	18.7	6.7	1.3	1.3	10.7	100.0
Grant (N=75) (mean=1.40)	72.0	6.7	5.3	2.7	2.7	10.7	100.1
Otter Tail (N=75) (mean=1.38)	66.7	16.0	9.3	0.0	0.0	8.0	100.0
Pope (N=78) (mean=1.21)	88.5	3.8	3.8	1.3	1.3	1.3	100.0
Stevens (N=75) (mean=1.18)	85.3	6.7	2.7	0.0	1.3	4.0	100.0
Traverse (N=76) (mean=1.25)	80.3	13.2	3.9	1.3	0.0	1.3	100.0
Wilkin (N=77) (mean=1.26)	76.6	3.9	7.8	1.3	0.0	10.4	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 14. Of respondents who said there are RECREATIONAL WATER issues they consider a problem, level of priority in addressing each problem

Recreational water issues by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Agricultural runoff					
<i>Overall region (N=123)</i>	7.3	17.9	72.4	2.4	100.0
Clay (N=13)	7.7	23.1	61.5	7.7	100.0
Douglas (N=18)	5.6	11.1	77.8	5.6	100.1
Grant (N=17)	5.9	29.4	58.8	5.9	100.0
Otter Tail (N=14)	0.0	21.4	78.6	0.0	100.0
Pope (N=23)	0.0	17.4	82.6	0.0	100.0
Stevens (N=12)	16.7	8.3	75.0	0.0	100.0
Traverse (N=16)	25.0	25.0	50.0	0.0	100.0
Wilkin (N=10)	0.0	0.0	100.0	0.0	100.0
Lakes and swimming beaches					
<i>Overall region (N=36)</i>	13.9	13.9	72.2	0.0	100.0
Clay (N=3)	33.3	0.0	66.7	0.0	100.0
Douglas (N=4)	0.0	0.0	100.0	0.0	100.0
Grant (N=6)	0.0	50.0	50.0	0.0	100.0
Otter Tail (N=1)	0.0	0.0	100.0	0.0	100.0
Pope (N=8)	0.0	0.0	100.0	0.0	100.0
Stevens (N=3)	0.0	33.3	66.7	0.0	100.0
Traverse (N=11)	36.4	9.1	54.5	0.0	100.0
Wilkin (N=0)	NA	NA	NA	NA	NA

Appendix Table 14 (Continued). Of respondents who said there are RECREATIONAL WATER issues they consider a problem, level of priority in addressing each problem

Recreational water issues by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/ refused	Total
Industry runoff					
<i>Overall region (N=60)</i>	8.3	18.3	70.0	3.3	99.9
Clay (N=10)	10.0	10.0	80.0	0.0	100.0
Douglas (N=5)	0.0	20.0	80.0	0.0	100.0
Grant (N=7)	0.0	28.6	71.4	0.0	100.0
Otter Tail (N=6)	0.0	33.3	66.7	0.0	100.0
Pope (N=9)	0.0	22.2	77.8	0.0	100.0
Stevens (N=5)	0.0	40.0	60.0	0.0	100.0
Traverse (N=11)	27.3	9.1	45.5	18.2	100.1
Wilkin (N=7)	14.3	0.0	85.7	0.0	100.0
Improper sewage disposal					
<i>Overall region (N=58)</i>	6.9	20.7	67.2	5.2	100.0
Clay (N=9)	0.0	22.2	77.8	0.0	100.0
Douglas (N=7)	14.3	0.0	85.7	0.0	100.0
Grant (N=11)	0.0	18.2	54.5	27.3	100.0
Otter Tail (N=6)	0.0	33.3	66.7	0.0	100.0
Pope (N=9)	0.0	22.2	77.8	0.0	100.0
Stevens (N=5)	20.0	20.0	60.0	0.0	100.0
Traverse (N=10)	20.0	30.0	50.0	0.0	100.0
Wilkin (N=1)	0.0	0.0	100.0	0.0	100.0
Fertilizer runoff					
<i>Overall region (N=94)</i>	4.3	28.7	64.9	2.1	100.0
Clay (N=11)	18.2	36.4	36.4	9.1	100.1
Douglas (N=12)	0.0	16.7	83.3	0.0	100.0
Grant (N=11)	0.0	45.5	45.5	9.1	100.1
Otter Tail (N=9)	0.0	11.1	88.9	0.0	100.0
Pope (N=17)	0.0	17.6	82.4	0.0	100.0
Stevens (N=11)	0.0	36.4	63.6	0.0	100.0
Traverse (N=15)	13.3	33.3	53.3	0.0	99.9
Wilkin (N=8)	0.0	37.5	62.5	0.0	100.0
Overuse of recreational water by campers and boaters					
<i>Overall region (N=39)</i>	10.3	38.5	48.7	2.6	100.1
Clay (N=5)	40.0	60.0	0.0	0.0	100.0
Douglas (N=9)	0.0	33.3	55.6	11.1	100.0
Grant (N=6)	0.0	66.7	33.3	0.0	100.0
Otter Tail (N=5)	0.0	40.0	60.0	0.0	100.0
Pope (N=6)	0.0	33.3	66.7	0.0	100.0
Stevens (N=3)	33.3	33.3	33.3	0.0	99.9
Traverse (N=1)	0.0	0.0	100.0	0.0	100.0
Wilkin (N=4)	25.0	0.0	75.0	0.0	100.0
Public pools and spas					
<i>Overall region (N=17)</i>	11.8	47.1	41.2	0.0	100.1
Clay (N=6)	33.3	50.0	16.7	0.0	100.0
Douglas (N=2)	0.0	100.0	0.0	0.0	100.0
Grant (N=4)	0.0	75.0	25.0	0.0	100.0
Otter Tail (N=0)	NA	NA	NA	NA	NA
Pope (N=2)	0.0	0.0	100.0	0.0	100.0
Stevens (N=1)	0.0	0.0	100.0	0.0	100.0
Traverse (N=1)	0.0	0.0	100.0	0.0	100.0
Wilkin (N=1)	0.0	0.0	100.0	0.0	100.0

NOTE: NA = not applicable.

Appendix Table 15. Of respondents who said there are RECREATIONAL WATER issues they consider a problem, extent that issues have affected a household member's health

Recreational water issues by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Public pools and spas							
<i>Overall region (N=17)</i> <i>(mean=2.00)</i>	64.7	11.8	0.0	5.9	17.6	0.0	100.0
Clay (N=6) <i>(mean=1.67)</i>	83.3	0.0	0.0	0.0	16.7	0.0	100.0
Douglas (N=2) <i>(mean=1.50)</i>	50.0	50.0	0.0	0.0	0.0	0.0	100.0
Grant (N=4) <i>(mean=2.00)</i>	75.0	0.0	0.0	0.0	25.0	0.0	100.0
Otter Tail (N=0) <i>(mean=NA)</i>	NA	NA	NA	NA	NA	NA	NA
Pope (N=2) <i>(mean=2.50)</i>	50.0	0.0	0.0	50.0	0.0	0.0	100.0
Stevens (N=1) <i>(mean=5.00)</i>	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Traverse (N=1) <i>(mean=2.00)</i>	0.0	100.0	0.0	0.0	0.0	0.0	100.0
Wilkin (N=1) <i>(mean=1.00)</i>	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Lakes and swimming beaches							
<i>Overall region (N=36)</i> <i>(mean=1.86)</i>	72.2	0.0	11.1	2.8	13.9	0.0	100.0
Clay (N=3) <i>(mean=1.67)</i>	66.7	0.0	33.3	0.0	0.0	0.0	100.0
Douglas (N=4) <i>(mean=2.50)</i>	50.0	0.0	25.0	0.0	25.0	0.0	100.0
Grant (N=6) <i>(mean=1.00)</i>	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=1) <i>(mean=1.00)</i>	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=8) <i>(mean=2.50)</i>	50.0	0.0	25.0	0.0	25.0	0.0	100.0
Stevens (N=3) <i>(mean=2.33)</i>	66.7	0.0	0.0	0.0	33.3	0.0	100.0
Traverse (N=11) <i>(mean=1.64)</i>	81.8	0.0	0.0	9.1	9.1	0.0	100.0
Wilkin (N=0) <i>(mean=NA)</i>	NA	NA	NA	NA	NA	NA	NA
Agricultural runoff							
<i>Overall region (N=123)</i> <i>(mean=1.51)</i>	72.4	8.1	7.3	0.8	5.7	5.7	100.0
Clay (N=13) <i>(mean=1.55)</i>	53.8	23.1	0.0	7.7	0.0	15.4	100.0
Douglas (N=18) <i>(mean=1.88)</i>	66.7	5.6	5.6	0.0	16.7	5.6	100.2
Grant (N=17) <i>(mean=1.00)</i>	94.1	0.0	0.0	0.0	0.0	5.9	100.0
Otter Tail (N=14) <i>(mean=1.36)</i>	71.4	21.4	7.1	0.0	0.0	0.0	99.9
Pope (N=23) <i>(mean=1.86)</i>	60.9	4.3	21.7	0.0	8.7	4.3	99.9
Stevens (N=12) <i>(mean=1.09)</i>	83.3	8.3	0.0	0.0	0.0	8.3	99.9
Traverse (N=16) <i>(mean=1.31)</i>	81.3	6.3	12.5	0.0	0.0	0.0	100.1
Wilkin (N=10) <i>(mean=1.89)</i>	70.0	0.0	0.0	0.0	20.0	10.0	100.0
Fertilizer runoff							
<i>Overall region (N=94)</i> <i>(mean=1.41)</i>	77.7	7.4	4.3	2.1	4.3	4.3	100.1
Clay (N=11) <i>(mean=1.56)</i>	54.5	18.2	0.0	9.1	0.0	18.2	100.0
Douglas (N=12) <i>(mean=1.58)</i>	83.3	0.0	0.0	8.3	8.3	0.0	99.9
Grant (N=11) <i>(mean=1.00)</i>	90.9	0.0	0.0	0.0	0.0	9.1	100.0
Otter Tail (N=9) <i>(mean=1.22)</i>	77.8	22.2	0.0	0.0	0.0	0.0	100.0
Pope (N=17) <i>(mean=2.06)</i>	52.9	5.9	23.5	0.0	11.8	5.9	100.0
Stevens (N=11) <i>(mean=1.09)</i>	90.9	9.1	0.0	0.0	0.0	0.0	100.0
Traverse (N=15) <i>(mean=1.07)</i>	93.3	6.7	0.0	0.0	0.0	0.0	100.0
Wilkin (N=8) <i>(mean=1.50)</i>	87.5	0.0	0.0	0.0	12.5	0.0	100.0

NOTE: NA = not applicable. Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 15 (Continued). Of respondents who said there are RECREATIONAL WATER issues they consider a problem, extent that issues have affected a household member's health

Recreational water issues by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Improper sewage disposal							
<i>Overall region (N=58) (mean=1.41)</i>	87.9	0.0	1.7	3.4	6.9	0.0	99.9
Clay (N=9) (mean=1.33)	88.9	0.0	0.0	11.1	0.0	0.0	100.0
Douglas (N=7) (mean=2.14)	71.4	0.0	0.0	0.0	28.6	0.0	100.0
Grant (N=11) (mean=1.27)	90.9	0.0	0.0	9.1	0.0	0.0	100.0
Otter Tail (N=6) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=9) (mean=2.11)	66.7	0.0	11.1	0.0	22.2	0.0	100.0
Stevens (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=10) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Wilkin (N=1) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Overuse of recreational water by campers and boaters							
<i>Overall region (N=39) (mean=1.28)</i>	82.1	7.7	10.3	0.0	0.0	0.0	100.1
Clay (N=5) (mean=1.20)	80.0	20.0	0.0	0.0	0.0	0.0	100.0
Douglas (N=9) (mean=1.67)	55.6	22.2	22.2	0.0	0.0	0.0	100.0
Grant (N=6) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=6) (mean=1.33)	83.3	0.0	16.7	0.0	0.0	0.0	100.0
Stevens (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=1) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Wilkin (N=4) (mean=1.50)	75.0	0.0	25.0	0.0	0.0	0.0	100.0
Industry runoff							
<i>Overall region (N=60) (mean=1.27)</i>	86.7	3.3	5.0	0.0	3.3	1.7	100.0
Clay (N=10) (mean=1.11)	80.0	10.0	0.0	0.0	0.0	10.0	100.0
Douglas (N=5) (mean=1.40)	80.0	0.0	20.0	0.0	0.0	0.0	100.0
Grant (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=6) (mean=1.67)	83.3	0.0	0.0	0.0	16.7	0.0	100.0
Pope (N=9) (mean=1.89)	66.7	0.0	22.2	0.0	11.1	0.0	100.0
Stevens (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=11) (mean=1.09)	90.9	9.1	0.0	0.0	0.0	0.0	100.0
Wilkin (N=7) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0

NOTE: NA = not applicable. Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 16. Degree that environmental health factors relating to DRINKING WATER are considered a problem

Drinking water issues by County	Percent of respondents by Response						
	Not a problem at all (1)	(2)	(3)	(4)	A serious problem (5)	DNK/refused	Total
Abandoned wells that are not sealed							
<i>Overall region (N=606) (mean=1.65)</i>	58.4	13.9	7.9	2.3	5.1	12.4	100.0
Clay (N=75) (mean=1.75)	52.0	16.0	6.7	4.0	5.3	16.0	100.0
Douglas (N=75) (mean=1.48)	62.7	10.7	8.0	1.3	2.7	14.7	100.1
Grant (N=75) (mean=1.64)	62.7	6.7	14.7	0.0	5.3	10.7	100.1
Otter Tail (N=75) (mean=1.70)	56.0	16.0	10.7	1.3	5.3	10.7	100.0
Pope (N=78) (mean=1.73)	56.4	11.5	2.6	2.6	9.0	17.9	100.0
Stevens (N=75) (mean=1.67)	53.3	17.3	9.3	0.0	5.3	14.7	99.9
Traverse (N=76) (mean=1.78)	55.3	21.1	7.9	5.3	5.3	5.3	100.2
Wilkin (N=77) (mean=1.46)	68.8	11.7	3.9	3.9	2.6	9.1	100.0
Contaminated PUBLIC drinking water							
<i>Overall region (N=606) (mean=1.65)</i>	69.3	9.6	6.3	4.1	6.9	3.8	100.0
Clay (N=75) (mean=2.11)	56.0	12.0	6.7	12.0	12.0	1.3	100.0
Douglas (N=75) (mean=1.52)	72.0	5.3	8.0	0.0	6.7	8.0	100.0
Grant (N=75) (mean=1.82)	62.7	9.3	8.0	6.7	8.0	5.3	100.0
Otter Tail (N=75) (mean=1.48)	77.3	10.7	5.3	0.0	6.7	0.0	100.0
Pope (N=78) (mean=1.54)	69.2	6.4	7.7	3.8	3.8	9.0	99.9
Stevens (N=75) (mean=1.64)	68.0	14.7	4.0	2.7	8.0	2.7	100.1
Traverse (N=76) (mean=1.75)	67.1	9.2	9.2	6.6	6.6	1.3	100.0
Wilkin (N=77) (mean=1.32)	81.8	9.1	1.3	1.3	3.9	2.6	100.0
Contaminated PRIVATE drinking water							
<i>Overall region (N=606) (mean=1.52)</i>	67.0	13.2	8.3	1.8	3.3	6.4	100.0
Clay (N=75) (mean=1.57)	60.0	16.0	8.0	2.7	2.7	10.7	100.1
Douglas (N=75) (mean=1.48)	68.0	13.3	10.7	0.0	2.7	5.3	100.0
Grant (N=75) (mean=1.61)	64.0	14.7	12.0	1.3	4.0	4.0	100.0
Otter Tail (N=75) (mean=1.53)	65.3	18.7	8.0	0.0	4.0	4.0	100.0
Pope (N=78) (mean=1.51)	64.1	10.3	7.7	1.3	3.8	12.8	100.0
Stevens (N=75) (mean=1.60)	58.7	18.7	8.0	1.3	4.0	9.3	100.0
Traverse (N=76) (mean=1.55)	73.7	7.9	7.9	6.6	2.6	1.3	100.0
Wilkin (N=77) (mean=1.30)	81.8	6.5	3.9	1.3	2.6	3.9	100.0

NOTE: Means are based on a one to five scale, with one being "not a problem at all" and five being "a serious problem." "DNK/refused" is excluded from the mean.

Appendix Table 17. Of respondents who said there are DRINKING WATER issues they consider a problem, level of priority in addressing each problem

Drinking water issues by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Contaminated PUBLIC drinking water					
<i>Overall region (N=67)</i>	3.0	13.4	82.1	1.5	100.0
Clay (N=18)	0.0	22.2	77.8	0.0	100.0
Douglas (N=5)	0.0	20.0	80.0	0.0	100.0
Grant (N=11)	0.0	9.1	90.9	0.0	100.0
Otter Tail (N=5)	20.0	0.0	80.0	0.0	100.0
Pope (N=6)	0.0	50.0	50.0	0.0	100.0
Stevens (N=8)	12.5	0.0	87.5	0.0	100.0
Traverse (N=10)	0.0	0.0	90.0	10.0	100.0
Wilkin (N=4)	0.0	0.0	100.0	0.0	100.0
Contaminated PRIVATE drinking water					
<i>Overall region (N=31)</i>	3.2	19.4	77.4	0.0	100.0
Clay (N=4)	0.0	50.0	50.0	0.0	100.0
Douglas (N=2)	0.0	0.0	100.0	0.0	100.0
Grant (N=4)	0.0	0.0	100.0	0.0	100.0
Otter Tail (N=3)	0.0	0.0	100.0	0.0	100.0
Pope (N=4)	0.0	25.0	75.0	0.0	100.0
Stevens (N=4)	0.0	0.0	100.0	0.0	100.0
Traverse (N=7)	14.3	28.6	57.1	0.0	100.0
Wilkin (N=3)	0.0	33.3	66.7	0.0	100.0
Abandoned wells that are not sealed					
<i>Overall region (N=45)</i>	4.4	31.1	62.2	2.2	99.9
Clay (N=7)	0.0	28.6	71.4	0.0	100.0
Douglas (N=3)	0.0	0.0	100.0	0.0	100.0
Grant (N=4)	0.0	25.0	75.0	0.0	100.0
Otter Tail (N=5)	0.0	40.0	60.0	0.0	100.0
Pope (N=9)	0.0	44.4	55.6	0.0	100.0
Stevens (N=4)	0.0	0.0	100.0	0.0	100.0
Traverse (N=8)	12.5	37.5	37.5	12.5	100.0
Wilkin (N=5)	20.0	40.0	40.0	0.0	100.0

Appendix Table 18. Of respondents who said there are DRINKING WATER issues they consider a problem, extent that issues have affected a household member's health

Drinking water issues by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Contaminated PUBLIC drinking water							
<i>Overall region (N=67) (mean=1.48)</i>	80.6	3.0	7.5	0.0	7.5	1.5	100.1
Clay (N=18) (mean=1.24)	88.9	0.0	0.0	0.0	5.6	5.6	100.1
Douglas (N=5) (mean=2.20)	60.0	0.0	20.0	0.0	20.0	0.0	100.0
Grant (N=11) (mean=1.27)	81.8	9.1	9.1	0.0	0.0	0.0	100.0
Otter Tail (N=5) (mean=1.80)	80.0	0.0	0.0	0.0	20.0	0.0	100.0
Pope (N=6) (mean=2.00)	66.7	0.0	16.7	0.0	16.7	0.0	100.1
Stevens (N=8) (mean=1.75)	75.0	0.0	12.5	0.0	12.5	0.0	100.0
Traverse (N=10) (mean=1.30)	80.0	10.0	10.0	0.0	0.0	0.0	100.0
Wilkin (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Contaminated PRIVATE drinking water							
<i>Overall region (N=31) (mean=1.45)</i>	80.6	9.7	0.0	3.2	6.5	0.0	100.0
Clay (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Douglas (N=2) (mean=3.00)	50.0	0.0	0.0	0.0	50.0	0.0	100.0
Grant (N=4) (mean=1.75)	75.0	0.0	0.0	25.0	0.0	0.0	100.0
Otter Tail (N=3) (mean=1.33)	66.7	33.3	0.0	0.0	0.0	0.0	100.0
Pope (N=4) (mean=2.00)	75.0	0.0	0.0	0.0	25.0	0.0	100.0
Stevens (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=7) (mean=1.14)	85.7	14.3	0.0	0.0	0.0	0.0	100.0
Wilkin (N=3) (mean=1.33)	66.7	33.3	0.0	0.0	0.0	0.0	100.0
Abandoned wells that are not sealed							
<i>Overall region (N=45) (mean=1.27)</i>	88.9	0.0	4.4	0.0	4.4	2.2	99.9
Clay (N=7) (mean=1.00)	85.7	0.0	0.0	0.0	0.0	14.3	100.0
Douglas (N=3) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Grant (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Pope (N=9) (mean=1.89)	66.7	0.0	22.2	0.0	11.1	0.0	100.0
Stevens (N=4) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=8) (mean=1.50)	87.5	0.0	0.0	0.0	12.5	0.0	100.0
Wilkin (N=5) (mean=1.00)	100.0	0.0	0.0	0.0	0.0	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 19. Degree that FOOD HEALTH AND SAFETY STANDARDS are addressed

Food protection areas by County	Percent of respondents by Response						
	Not addressed at all (1)	(2)	(3)	(4)	Very well addressed (5)	DNK/refused	Total
Food in grocery and convenience stores, delis, and meat markets							
<i>Overall region (N=606) (mean=3.93)</i>	2.1	6.4	22.4	29.5	35.5	4.0	99.9
Clay (N=75) (mean=3.73)	1.3	12.0	24.0	34.7	25.3	2.7	100.0
Douglas (N=75) (mean=4.00)	2.7	1.3	21.3	37.3	32.0	5.3	99.9
Grant (N=75) (mean=3.99)	2.7	4.0	22.7	29.3	37.3	4.0	100.0
Otter Tail (N=75) (mean=3.73)	0.0	10.7	28.0	32.0	24.0	5.3	100.0
Pope (N=78) (mean=3.93)	1.3	7.7	23.1	28.2	35.9	3.8	100.0
Stevens (N=75) (mean=3.88)	4.0	5.3	24.0	28.0	34.7	4.0	100.0
Traverse (N=76) (mean=3.95)	2.6	9.2	22.4	19.7	43.4	2.6	99.9
Wilkin (N=77) (mean=4.27)	2.6	1.3	14.3	27.3	50.6	3.9	100.0
Food in restaurants and bars							
<i>Overall region (N=606) (mean=3.81)</i>	4.5	6.6	23.9	26.9	32.3	5.8	100.0
Clay (N=75) (mean=3.66)	2.7	4.0	37.3	34.7	20.0	1.3	100.0
Douglas (N=75) (mean=3.86)	1.3	4.0	25.3	38.7	24.0	6.7	100.0
Grant (N=75) (mean=3.84)	6.7	6.7	18.7	24.0	37.3	6.7	100.1
Otter Tail (N=75) (mean=3.30)	5.3	14.7	36.0	18.7	17.3	8.0	100.0
Pope (N=78) (mean=4.13)	2.6	3.8	17.9	25.6	46.2	3.8	99.9
Stevens (N=75) (mean=3.70)	6.7	6.7	24.0	28.0	29.3	5.3	100.0
Traverse (N=76) (mean=3.89)	3.9	9.2	17.1	26.3	36.8	6.6	99.9
Wilkin (N=77) (mean=4.04)	6.5	3.9	15.6	19.5	46.8	7.8	100.1
Food prepared for and served at community events							
<i>Overall region (N=606) (mean=3.64)</i>	8.7	10.2	18.6	26.4	31.0	5.0	99.9
Clay (N=75) (mean=3.46)	6.7	14.7	25.3	22.7	24.0	6.7	100.1
Douglas (N=75) (mean=3.61)	5.3	8.0	29.3	24.0	25.3	8.0	99.9
Grant (N=75) (mean=3.36)	20.0	12.0	12.0	21.3	33.3	1.3	99.9
Otter Tail (N=75) (mean=3.19)	17.3	13.3	14.7	34.7	16.0	4.0	100.0
Pope (N=78) (mean=4.14)	1.3	3.8	21.8	20.5	46.2	6.4	100.0
Stevens (N=75) (mean=3.64)	8.0	13.3	14.7	29.3	30.7	4.0	100.0
Traverse (N=76) (mean=3.79)	7.9	6.6	17.1	30.3	34.2	3.9	100.0
Wilkin (N=77) (mean=3.90)	3.9	10.4	14.3	28.6	37.7	5.2	100.1

NOTE: Means are based on a one to five scale, with one being "not addressed at all" and five being "very well addressed." "DNK/refused" is excluded from the mean.

Appendix Table 20. Of respondents who said FOOD HEALTH AND SAFETY STANDARDS are not well addressed, level of priority in addressing poor health and safety standards

Food protection areas by County	Percent of respondents by Level of priority				
	Low priority	Medium priority	High priority	DNK/refused	Total
Food in grocery and convenience stores, delis, and meat markets					
<i>Overall region (N=52)</i>	7.7	36.5	50.0	5.8	100.0
Clay (N=10)	10.0	40.0	40.0	10.0	100.0
Douglas (N=3)	0.0	33.3	66.7	0.0	100.0
Grant (N=5)	20.0	20.0	40.0	20.0	100.0
Otter Tail (N=8)	0.0	25.0	75.0	0.0	100.0
Pope (N=7)	0.0	28.6	71.4	0.0	100.0
Stevens (N=7)	14.3	42.9	42.9	0.0	100.1
Traverse (N=9)	0.0	44.4	44.4	11.1	99.9
Wilkin (N=3)	33.3	66.7	0.0	0.0	100.0
Food in restaurants and bars					
<i>Overall region (N=67)</i>	13.4	37.3	46.3	3.0	100.0
Clay (N=5)	20.0	60.0	20.0	0.0	100.0
Douglas (N=4)	0.0	25.0	75.0	0.0	100.0
Grant (N=10)	30.0	30.0	30.0	10.0	100.0
Otter Tail (N=15)	0.0	20.0	80.0	0.0	100.0
Pope (N=5)	20.0	20.0	60.0	0.0	100.0
Stevens (N=10)	10.0	30.0	50.0	10.0	100.0
Traverse (N=10)	10.0	90.0	0.0	0.0	100.0
Wilkin (N=8)	25.0	25.0	50.0	0.0	100.0
Food prepared for and served at community events					
<i>Overall region (N=115)</i>	42.6	40.0	15.7	1.7	100.0
Clay (N=16)	25.0	50.0	25.0	0.0	100.0
Douglas (N=10)	20.0	40.0	20.0	20.0	100.0
Grant (N=24)	50.0	29.2	20.8	0.0	100.0
Otter Tail (N=23)	52.2	43.5	4.3	0.0	100.0
Pope (N=4)	50.0	50.0	0.0	0.0	100.0
Stevens (N=16)	50.0	37.5	12.5	0.0	100.0
Traverse (N=11)	45.5	27.3	27.3	0.0	100.1
Wilkin (N=11)	36.4	54.5	9.1	0.0	100.0

Appendix Table 21. Of respondents who said FOOD HEALTH AND SAFETY STANDARDS are not well addressed, extent that poor health and safety standards have affected a household member's health

Food protection areas by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Food in restaurants and bars							
<i>Overall region (N=67) (mean=2.27)</i>	52.2	13.4	6.0	7.5	19.4	1.5	100.0
Clay (N=5) (<i>mean=2.40</i>)	40.0	20.0	20.0	0.0	20.0	0.0	100.0
Douglas (N=4) (<i>mean=3.00</i>)	25.0	25.0	0.0	25.0	25.0	0.0	100.0
Grant (N=10) (<i>mean=1.80</i>)	80.0	0.0	0.0	0.0	20.0	0.0	100.0
Otter Tail (N=15) (<i>mean=2.93</i>)	26.7	13.3	20.0	6.7	26.7	6.7	100.1
Pope (N=5) (<i>mean=3.40</i>)	20.0	20.0	0.0	20.0	40.0	0.0	100.0
Stevens (N=10) (<i>mean=1.50</i>)	80.0	10.0	0.0	0.0	10.0	0.0	100.0
Traverse (N=10) (<i>mean=1.60</i>)	60.0	30.0	0.0	10.0	0.0	0.0	100.0
Wilkin (N=8) (<i>mean=2.38</i>)	62.5	0.0	0.0	12.5	25.0	0.0	100.0
Food in grocery and convenience stores, delis, and meat markets							
<i>Overall region (N=52) (mean=1.81)</i>	67.3	7.7	7.7	11.5	5.8	0.0	100.0
Clay (N=10) (<i>mean=1.60</i>)	70.0	10.0	10.0	10.0	0.0	0.0	100.0
Douglas (N=3) (<i>mean=2.33</i>)	66.7	0.0	0.0	0.0	33.3	0.0	100.0
Grant (N=5) (<i>mean=1.00</i>)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Otter Tail (N=8) (<i>mean=1.63</i>)	62.5	25.0	0.0	12.5	0.0	0.0	100.0
Pope (N=7) (<i>mean=2.86</i>)	28.6	0.0	28.6	42.9	0.0	0.0	100.1
Stevens (N=7) (<i>mean=1.00</i>)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Traverse (N=9) (<i>mean=2.11</i>)	55.6	11.1	11.1	11.1	11.1	0.0	100.0
Wilkin (N=3) (<i>mean=2.33</i>)	66.7	0.0	0.0	0.0	33.3	0.0	100.0
Food prepared for and served at community events							
<i>Overall region (N=115) (mean=1.30)</i>	87.8	4.3	0.9	4.3	2.6	0.0	99.9
Clay (N=16) (<i>mean=1.38</i>)	87.5	0.0	0.0	12.5	0.0	0.0	100.0
Douglas (N=10) (<i>mean=1.80</i>)	80.0	0.0	0.0	0.0	20.0	0.0	100.0
Grant (N=24) (<i>mean=1.25</i>)	87.5	4.2	4.2	4.2	0.0	0.0	100.1
Otter Tail (N=23) (<i>mean=1.22</i>)	87.0	8.7	0.0	4.3	0.0	0.0	100.0
Pope (N=4) (<i>mean=1.00</i>)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Stevens (N=16) (<i>mean=1.25</i>)	87.5	6.3	0.0	6.3	0.0	0.0	100.1
Traverse (N=11) (<i>mean=1.00</i>)	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Wilkin (N=11) (<i>mean=1.45</i>)	81.8	9.1	0.0	0.0	9.1	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 22. Degree that respondent is worried about various THREATENING EMERGENCIES OR DISASTERS

Emergency or disaster by County	Percent of respondents by Response						
	Not at all worried (1)	(2)	(3)	(4)	Very worried (5)	DNK/refused	Total
Natural disasters							
<i>Overall region (N=606)</i> <i>(mean=2.31)</i>	29.9	31.4	22.9	9.9	5.9	0.0	100.0
Clay (N=75) <i>(mean=2.17)</i>	34.7	33.3	17.3	9.3	5.3	0.0	99.9
Douglas (N=75) <i>(mean=2.23)</i>	26.7	37.3	25.3	8.0	2.7	0.0	100.0
Grant (N=75) <i>(mean=2.28)</i>	28.0	33.3	25.3	9.3	4.0	0.0	99.9
Otter Tail (N=75) <i>(mean=2.67)</i>	14.7	37.3	24.0	14.7	9.3	0.0	100.0
Pope (N=78) <i>(mean=2.08)</i>	44.9	24.4	17.9	3.8	9.0	0.0	100.0
Stevens (N=75) <i>(mean=2.24)</i>	30.7	30.7	28.0	5.3	5.3	0.0	100.0
Traverse (N=76) <i>(mean=2.54)</i>	30.3	22.4	21.1	15.8	10.5	0.0	100.1
Wilkin (N=77) <i>(mean=2.26)</i>	28.6	32.5	24.7	13.0	1.3	0.0	100.1
Disease outbreak							
<i>Overall region (N=606)</i> <i>(mean=2.28)</i>	34.7	25.9	22.9	8.3	7.8	0.5	100.1
Clay (N=75) <i>(mean=2.43)</i>	26.7	28.0	26.7	9.3	8.0	1.3	100.0
Douglas (N=75) <i>(mean=2.36)</i>	40.0	17.3	16.0	16.0	9.3	1.3	99.9
Grant (N=75) <i>(mean=2.22)</i>	34.7	25.3	28.0	4.0	6.7	1.3	100.0
Otter Tail (N=75) <i>(mean=2.59)</i>	20.0	30.7	29.3	10.7	9.3	0.0	100.0
Pope (N=78) <i>(mean=2.09)</i>	42.3	23.1	24.4	3.8	6.4	0.0	100.0
Stevens (N=75) <i>(mean=2.12)</i>	37.3	29.3	22.7	5.3	5.3	0.0	99.9
Traverse (N=76) <i>(mean=2.32)</i>	39.5	19.7	19.7	11.8	9.2	0.0	99.9
Wilkin (N=77) <i>(mean=2.14)</i>	36.4	33.8	16.9	5.2	7.8	0.0	100.1
Terrorism							
<i>Overall region (N=606)</i> <i>(mean=2.24)</i>	44.4	18.2	15.8	10.6	10.6	0.5	100.1
Clay (N=75) <i>(mean=2.39)</i>	30.7	29.3	18.7	13.3	8.0	0.0	100.0
Douglas (N=75) <i>(mean=2.20)</i>	45.3	21.3	10.7	9.3	12.0	1.3	99.9
Grant (N=75) <i>(mean=2.39)</i>	40.0	14.7	20.0	13.3	10.7	1.3	100.0
Otter Tail (N=75) <i>(mean=2.53)</i>	33.3	20.0	16.0	18.7	10.7	1.3	100.0
Pope (N=78) <i>(mean=2.10)</i>	56.4	11.5	12.8	3.8	15.4	0.0	99.9
Stevens (N=75) <i>(mean=2.17)</i>	41.3	20.0	25.3	6.7	6.7	0.0	100.0
Traverse (N=76) <i>(mean=2.18)</i>	55.3	9.2	10.5	11.8	13.2	0.0	100.0
Wilkin (N=77) <i>(mean=2.00)</i>	51.9	19.5	13.0	7.8	7.8	0.0	100.0
Household emergencies							
<i>Overall region (N=606)</i> <i>(mean=1.94)</i>	47.4	25.1	18.5	4.3	4.8	0.0	100.1
Clay (N=75) <i>(mean=2.16)</i>	38.7	25.3	21.3	10.7	4.0	0.0	100.0
Douglas (N=75) <i>(mean=1.99)</i>	38.7	34.7	20.0	2.7	4.0	0.0	100.1
Grant (N=75) <i>(mean=1.77)</i>	54.7	21.3	18.7	2.7	2.7	0.0	100.1
Otter Tail (N=75) <i>(mean=2.33)</i>	29.3	29.3	28.0	5.3	8.0	0.0	99.9
Pope (N=78) <i>(mean=1.71)</i>	57.7	24.4	11.5	2.6	3.8	0.0	100.0
Stevens (N=75) <i>(mean=1.80)</i>	52.0	26.7	14.7	2.7	4.0	0.0	100.1
Traverse (N=76) <i>(mean=2.04)</i>	53.9	13.2	17.1	6.6	9.2	0.0	100.0
Wilkin (N=77) <i>(mean=1.74)</i>	53.2	26.0	16.9	1.3	2.6	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all worried" and five being "very worried." "DNK/refused" is excluded from the mean.

Appendix Table 22 (Continued). Degree that respondent is worried about various THREATENING EMERGENCIES OR DISASTERS

Emergency or disaster by County	Percent of respondents by Response						
	Not at all worried (1)	(2)	(3)	(4)	Very worried (5)	DNK/refused	Total
Chemical spills							
<i>Overall region (N=606) (mean=1.78)</i>	56.3	21.3	13.0	4.5	4.1	0.8	100.0
Clay (N=75) (mean=2.01)	46.7	26.7	12.0	8.0	6.7	0.0	100.1
Douglas (N=75) (mean=1.66)	60.0	21.3	10.7	4.0	2.7	1.3	100.0
Grant (N=75) (mean=1.85)	50.7	25.3	13.3	5.3	4.0	1.3	99.9
Otter Tail (N=75) (mean=1.96)	44.0	25.3	22.7	2.7	4.0	1.3	100.0
Pope (N=78) (mean=1.71)	67.9	11.5	10.3	2.6	7.7	0.0	100.0
Stevens (N=75) (mean=1.70)	54.7	24.0	13.3	4.0	1.3	2.7	100.0
Traverse (N=76) (mean=1.62)	67.1	14.5	10.5	5.3	2.6	0.0	100.0
Wilkin (N=77) (mean=1.73)	58.4	22.1	11.7	3.9	3.9	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all worried" and five being "very worried." "DNK/refused" is excluded from the mean.

Appendix Table 23. In the event of a threatening emergency or disaster, ways respondent would be alerted to, or get information about, the emergency or disaster

County	Percent of respondents* by Source of information					
	Battery-operated radio	Sirens	Television	Scanner	Word of mouth by neighbors	Other**
<i>Overall region (N=606)</i>	65.0	60.1	83.5	15.3	64.9	23.1
Clay (N=75)	72.0	57.3	70.7	20.0	53.3	18.7
Douglas (N=75)	66.7	57.3	80.0	13.3	57.3	21.3
Grant (N=75)	61.3	57.3	94.7	16.0	77.3	26.7
Otter Tail (N=75)	65.3	44.0	80.0	13.3	62.7	14.7
Pope (N=78)	60.3	56.4	82.1	15.4	57.7	30.8
Stevens (N=75)	65.3	64.0	81.3	13.3	68.0	26.7
Traverse (N=76)	59.2	71.1	88.2	9.2	71.1	31.6
Wilkin (N=77)	70.1	72.7	90.9	22.1	71.4	14.3

NOTE: There were no respondents who refused to answer this question.

*Percentages do not add to 100.0 due to multiple responses.

**See Appendix Table 23-A for a list of other ways respondent would be alerted to, or get information about, the emergency or disaster.

Appendix Table 23-A. Other ways respondent would be alerted to, or get information about, the emergency or disaster

Response	Number
Phone (cell phones/telephone)	70
Computer/Internet	26
Authorities (police department/fire department)	18
Radio	18
Employment	17
Family	7
Observation/look out window	3
County response system/code red system	2
Designated spotters	1
Health care system	1
Neighbors	1
Newspaper	1
School	1
Sirens don't work well	1
Text messaging	1
Whistle being blown	1

Appendix Table 24. Respondent's degree of confidence that their community or area can respond to a large-scale disaster or emergency

County	Percent of respondents by Response						
	Not at all confident (1)	(2)	(3)	(4)	Very confident (5)	DNK/refused	Total
<i>Overall region (N=606) (mean=3.56)</i>	4.1	13.5	28.5	27.9	24.8	1.2	100.0
Clay (N=75) (mean=3.64)	0.0	16.0	28.0	26.7	25.3	4.0	100.0
Douglas (N=75) (mean=3.41)	5.3	9.3	40.0	29.3	16.0	0.0	99.9
Grant (N=75) (mean=3.55)	5.3	20.0	13.3	34.7	25.3	1.3	99.9
Otter Tail (N=75) (mean=3.04)	8.0	22.7	34.7	21.3	10.7	2.7	100.1
Pope (N=78) (mean=3.73)	2.6	6.4	33.3	29.5	26.9	1.3	100.0
Stevens (N=75) (mean=3.57)	4.0	14.7	29.3	24.0	28.0	0.0	100.0
Traverse (N=76) (mean=3.79)	6.6	7.9	19.7	31.6	34.2	0.0	100.0
Wilkin (N=77) (mean=3.74)	1.3	11.7	29.9	26.0	31.2	0.0	100.1

NOTE: Means are based on a one to five scale, with one being "not at all confident" and five being "very confident." "DNK/refused" is excluded from the mean.

Appendix Table 25. Level of preparedness of respondent's household in the event of an emergency or disaster

County	Percent of respondents by Response						
	Not at all prepared (1)	(2)	(3)	(4)	Very prepared (5)	DNK/refused	Total
<i>Overall region (N=606)</i> <i>(mean=3.17)</i>	10.4	16.7	32.2	26.4	14.0	0.3	100.0
Clay (N=75) <i>(mean=3.14)</i>	5.3	18.7	38.7	29.3	6.7	1.3	100.0
Douglas (N=75) <i>(mean=3.47)</i>	4.0	16.0	30.7	25.3	22.7	1.3	100.0
Grant (N=75) <i>(mean=3.11)</i>	9.3	21.3	33.3	21.3	14.7	0.0	99.9
Otter Tail (N=75) <i>(mean=3.01)</i>	14.7	16.0	30.7	30.7	8.0	0.0	100.1
Pope (N=78) <i>(mean=3.26)</i>	15.4	11.5	26.9	24.4	21.8	0.0	100.0
Stevens (N=75) <i>(mean=2.96)</i>	13.3	20.0	32.0	26.7	8.0	0.0	100.0
Traverse (N=76) <i>(mean=3.11)</i>	15.8	9.2	38.2	22.4	14.5	0.0	100.1
Wilkin (N=77) <i>(mean=3.31)</i>	5.2	20.8	27.3	31.2	15.6	0.0	100.1

NOTE: Means are based on a one to five scale, with one being "not at all prepared" and five being "very prepared." "DNK/refused" is excluded from the mean.

Appendix Table 26. Of respondents who are not well prepared for an emergency or disaster, likelihood of respondent taking necessary steps, within the next three months, to prepare for an emergency or disaster

County	Percent of respondents by Response						
	Not at all likely (1)	(2)	(3)	(4)	Very likely (5)	DNK/refused	Total
<i>Overall region (N=164)</i> <i>(mean=2.40)</i>	26.8	31.7	22.6	7.3	9.8	1.8	100.0
Clay (N=18) <i>(mean=2.56)</i>	16.7	33.3	33.3	11.1	5.6	0.0	100.0
Douglas (N=15) <i>(mean=2.64)</i>	13.3	26.7	40.0	6.7	6.7	6.7	100.1
Grant (N=23) <i>(mean=2.17)</i>	39.1	17.4	34.8	4.3	4.3	0.0	99.9
Otter Tail (N=23) <i>(mean=2.22)</i>	34.8	30.4	21.7	4.3	8.7	0.0	99.9
Pope (N=21) <i>(mean=2.76)</i>	23.8	19.0	28.6	14.3	14.3	0.0	100.0
Stevens (N=25) <i>(mean=2.29)</i>	24.0	52.0	0.0	8.0	12.0	4.0	100.0
Traverse (N=19) <i>(mean=2.56)</i>	21.1	31.6	21.1	10.5	10.5	5.3	100.1
Wilkin (N=20) <i>(mean=2.20)</i>	35.0	40.0	10.0	0.0	15.0	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all likely" and five being "very likely." "DNK/refused" is excluded from the mean.

Appendix Table 27. Of respondents who are not well prepared and not likely to prepare for an emergency or disaster within the next three months, barriers preventing respondent from taking the necessary steps to do so

County	Percent of respondents* by Barriers					
	Do not think it is important	Don't know how to put an emergency plan and supplies together	Have not had time	Think it is too expensive	Other**	Refused
<i>Overall region (N=96)</i>	28.1	20.8	29.2	8.3	33.3	3.1
Clay (N=9)	44.4	11.1	22.2	0.0	22.2	11.1
Douglas (N=6)	50.0	0.0	16.7	16.7	33.3	0.0
Grant (N=13)	30.8	46.2	30.8	30.8	7.7	15.4
Otter Tail (N=15)	33.3	26.7	40.0	6.7	20.0	0.0
Pope (N=9)	11.1	0.0	11.1	0.0	77.8	0.0
Stevens (N=19)	26.3	31.6	21.1	5.3	36.8	0.0
Traverse (N=10)	20.0	30.0	30.0	0.0	50.0	0.0
Wilkin (N=15)	20.0	0.0	46.7	6.7	33.3	0.0

*Percentages do not add to 100.0 due to multiple responses.

**See Appendix Table 27-A for a list of other barriers preventing respondent from preparing for an emergency or disaster.

Appendix Table 27-A. Other barriers preventing respondent from preparing for an emergency or disaster

Response	Number
Do not think about it	9
Is not worried about it/scared enough	6
Don't think they have to/can prepare	5
It is not a priority	2
Live by themselves, so there's no one else to be concerned about	2
Unsure what to prepare for (type of emergency)	2
Wing it- my time to go/not much to do about it	2
Age	1
Call kids to help	1
Know it should be done	1
Lack of doing it	1
Laziness	1
Stupidity	1
Things get old, don't check items often enough (such as batteries)	1

Appendix Table 28. Of respondents who are not well prepared and not likely to prepare for an emergency or disaster within the next three months, likelihood of overcoming barriers to preparing for an emergency or disaster

County	Percent of respondents by Response						
	Not at all likely (1)	(2)	(3)	(4)	Very likely (5)	DNK/refused	Total
<i>Overall region (N=96) (mean=2.65)</i>	21.9	18.8	31.3	11.5	9.4	7.3	100.2
Clay (N=9) <i>(mean=2.43)</i>	22.2	11.1	33.3	11.1	0.0	22.2	99.9
Douglas (N=6) <i>(mean=2.60)</i>	0.0	33.3	50.0	0.0	0.0	16.7	100.0
Grant (N=13) <i>(mean=2.46)</i>	30.8	23.1	23.1	15.4	7.7	0.0	100.1
Otter Tail (N=15) <i>(mean=2.87)</i>	13.3	26.7	33.3	13.3	13.3	0.0	99.9
Pope (N=9) <i>(mean=2.63)</i>	33.3	0.0	33.3	11.1	11.1	11.1	99.9
Stevens (N=19) <i>(mean=2.71)</i>	15.8	15.8	42.1	10.5	5.3	10.5	100.0
Traverse (N=10) <i>(mean=2.00)</i>	40.0	20.0	20.0	10.0	0.0	10.0	100.0
Wilkin (N=15) <i>(mean=3.07)</i>	20.0	20.0	20.0	13.3	26.7	0.0	100.0

NOTE: Means are based on a one to five scale, with one being "not at all likely" and five being "very likely." "DNK/refused" is excluded from the mean.

Appendix Table 29. Extent that opinions of family members or friends, emergency personnel, and information from the media influence respondent's decision about emergency preparedness

Source of opinions/information by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Emergency personnel							
<i>Overall region (N=606) (mean=3.75)</i>	6.9	9.6	19.1	27.6	35.0	1.8	100.0
Clay (N=75) <i>(mean=3.58)</i>	9.3	8.0	22.7	29.3	26.7	4.0	100.0
Douglas (N=75) <i>(mean=3.75)</i>	5.3	9.3	24.0	22.7	34.7	4.0	100.0
Grant (N=75) <i>(mean=3.82)</i>	5.3	9.3	16.0	33.3	33.3	2.7	99.9
Otter Tail (N=75) <i>(mean=3.68)</i>	4.0	17.3	14.7	33.3	29.3	1.3	99.9
Pope (N=78) <i>(mean=3.65)</i>	11.5	7.7	19.2	26.9	34.6	0.0	99.9
Stevens (N=75) <i>(mean=3.78)</i>	6.7	9.3	22.7	20.0	40.0	1.3	100.0
Traverse (N=76) <i>(mean=3.78)</i>	9.2	11.8	11.8	26.3	40.8	0.0	99.9
Wilkin (N=77) <i>(mean=3.99)</i>	3.9	3.9	22.1	28.6	40.3	1.3	100.1
The media							
<i>Overall region (N=606) (mean=3.03)</i>	14.2	18.0	30.9	22.4	13.5	1.0	100.0
Clay (N=75) <i>(mean=2.89)</i>	16.0	16.0	36.0	21.3	8.0	2.7	100.0
Douglas (N=75) <i>(mean=3.03)</i>	14.7	17.3	30.7	20.0	14.7	2.7	100.1
Grant (N=75) <i>(mean=3.15)</i>	17.3	14.7	26.7	18.7	22.7	0.0	100.1
Otter Tail (N=75) <i>(mean=2.96)</i>	10.7	22.7	33.3	24.0	8.0	1.3	100.0
Pope (N=78) <i>(mean=2.91)</i>	16.7	23.1	23.1	26.9	10.3	0.0	100.1
Stevens (N=75) <i>(mean=2.91)</i>	16.0	20.0	32.0	18.7	12.0	1.3	100.0
Traverse (N=76) <i>(mean=3.20)</i>	9.2	17.1	31.6	28.9	13.2	0.0	100.0
Wilkin (N=77) <i>(mean=3.21)</i>	13.0	13.0	33.8	20.8	19.5	0.0	100.1

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 29 (Continued). Extent that opinions of family members or friends, emergency personnel, and information from the media influence respondent's decision about emergency preparedness

Source of opinions/information by County	Percent of respondents by Response						
	Not at all (1)	(2)	(3)	(4)	A great deal (5)	DNK/refused	Total
Family members or friends							
<i>Overall region (N=606) (mean=3.00)</i>	21.8	13.9	24.9	17.8	19.8	1.8	100.0
Clay (N=75) (mean=3.01)	14.7	16.0	33.3	14.7	16.0	5.3	100.0
Douglas (N=75) (mean=2.72)	26.7	17.3	21.3	17.3	13.3	4.0	99.9
Grant (N=75) (mean=3.07)	24.0	10.7	25.3	14.7	25.3	0.0	100.0
Otter Tail (N=75) (mean=2.85)	20.0	16.0	33.3	14.7	13.3	2.7	100.0
Pope (N=78) (mean=3.09)	19.2	15.4	23.1	21.8	20.5	0.0	100.0
Stevens (N=75) (mean=3.11)	20.0	14.7	21.3	20.0	22.7	1.3	100.0
Traverse (N=76) (mean=2.76)	30.3	15.8	21.1	13.2	19.7	0.0	100.1
Wilkin (N=77) (mean=3.37)	19.5	5.2	20.8	26.0	27.3	1.3	100.1

NOTE: Means are based on a one to five scale, with one being "not at all" and five being "a great deal." "DNK/refused" is excluded from the mean.

Appendix Table 30. Respondent's opinion regarding the likelihood that an emergency or natural disaster will occur in respondent's community

County	Percent of respondents by Response						
	Not at all likely (1)	(2)	(3)	(4)	Very likely (5)	DNK/refused	Total
<i>Overall region (N=606) (mean=2.39)</i>	24.4	27.4	32.2	7.4	5.1	3.5	100.0
Clay (N=75) (mean=2.50)	17.3	29.3	30.7	8.0	5.3	9.3	99.9
Douglas (N=75) (mean=2.29)	25.3	32.0	30.7	5.3	4.0	2.7	100.0
Grant (N=75) (mean=2.37)	24.0	28.0	34.7	6.7	4.0	2.7	100.1
Otter Tail (N=75) (mean=2.42)	22.7	26.7	37.3	9.3	2.7	1.3	100.0
Pope (N=78) (mean=2.27)	28.2	25.6	29.5	6.4	3.8	6.4	99.9
Stevens (N=75) (mean=2.26)	25.3	32.0	36.0	1.3	4.0	1.3	99.9
Traverse (N=76) (mean=2.44)	34.2	17.1	26.3	11.8	9.2	1.3	99.9
Wilkin (N=77) (mean=2.60)	18.2	28.6	32.5	10.4	7.8	2.6	100.1

NOTE: Means are based on a one to five scale, with one being "not at all likely" and five being "very likely." "DNK/refused" is excluded from the mean.

Appendix Table 31. Age of respondent

County	Percent of respondents by Years of age								
	Less than 21	21 to 24	25 to 34	35 to 44	45 to 54	55 to 64	65 or older	Refused	Total
<i>Overall region (N=606)</i>	0.8	0.8	8.9	14.2	19.5	22.1	33.2	0.5	100.0
Clay (N=75)	0.0	0.0	12.0	18.7	22.7	21.3	25.3	0.0	100.0
Douglas (N=75)	2.7	0.0	2.7	16.0	16.0	28.0	33.3	1.3	100.0
Grant (N=75)	0.0	0.0	6.7	12.0	14.7	21.3	42.7	2.7	100.1
Otter Tail (N=75)	0.0	4.0	9.3	10.7	13.3	20.0	42.7	0.0	100.0
Pope (N=78)	1.3	0.0	11.5	6.4	20.5	28.2	32.1	0.0	100.0
Stevens (N=75)	0.0	1.3	6.7	13.3	21.3	25.3	32.0	0.0	99.9
Traverse (N=76)	1.3	0.0	14.5	13.2	19.7	14.5	36.8	0.0	100.0
Wilkin (N=77)	1.3	1.3	7.8	23.4	27.3	18.2	20.8	0.0	100.1

Appendix Table 32. Education of respondent

County	Percent of respondents by Level of education								
	Less than high school	High school graduate or GED	Some vocational/tech, but no degree	Vocational/tech degree	Some college, but no degree	College degree	Graduate school or professional degree	Refused	Total
<i>Overall region (N=606)</i>	5.0	26.7	5.8	15.3	12.9	24.6	9.2	0.5	100.0
Clay (N=75)	4.0	22.7	5.3	17.3	10.7	29.3	9.3	1.3	99.9
Douglas (N=75)	0.0	21.3	8.0	16.0	14.7	24.0	14.7	1.3	100.0
Grant (N=75)	8.0	25.3	2.7	17.3	12.0	28.0	5.3	1.3	99.9
Otter Tail (N=75)	4.0	28.0	10.7	10.7	14.7	18.7	13.3	0.0	100.1
Pope (N=78)	5.1	26.9	7.7	20.5	11.5	20.5	7.7	0.0	99.9
Stevens (N=75)	2.7	24.0	2.7	16.0	9.3	36.0	9.3	0.0	100.0
Traverse (N=76)	9.2	34.2	6.6	13.2	13.2	19.7	3.9	0.0	100.0
Wilkin (N=77)	6.5	31.2	2.6	11.7	16.9	20.8	10.4	0.0	100.1

Appendix Table 33. Annual household income of respondent before taxes

County	Percent of respondents by Annual household income							Refused	Total
	Less than \$20,000	\$20,000 to \$34,999	\$35,000 to \$49,999	\$50,000 to \$74,999	\$75,000 to \$99,999	\$100,000 or more			
<i>Overall region (N=606)</i>	9.1	18.5	18.2	21.6	10.6	6.9	15.2	100.1	
Clay (N=75)	6.7	21.3	9.3	24.0	8.0	6.7	24.0	100.0	
Douglas (N=75)	9.3	16.0	14.7	21.3	5.3	10.7	22.7	100.0	
Grant (N=75)	13.3	12.0	20.0	25.3	8.0	4.0	17.3	99.9	
Otter Tail (N=75)	12.0	21.3	14.7	21.3	12.0	6.7	12.0	100.0	
Pope (N=78)	7.7	17.9	26.9	23.1	10.3	5.1	9.0	100.0	
Stevens (N=75)	9.3	12.0	17.3	18.7	22.7	5.3	14.7	100.0	
Traverse (N=76)	7.9	27.6	14.5	21.1	7.9	7.9	13.2	100.1	
Wilkin (N=77)	6.5	19.5	27.3	18.2	10.4	9.1	9.1	100.1	

Appendix Table 34. Whether respondent lives inside or outside of city limits

County	Percent of respondents by Location			Total
	Inside city limits	Outside city limits	Refused	
<i>Overall region (N=606)</i>	55.0	44.7	0.3	100.0
Clay (N=75)	81.3	17.3	1.3	99.9
Douglas (N=75)	32.0	66.7	1.3	100.0
Grant (N=75)	41.3	58.7	0.0	100.0
Otter Tail (N=75)	34.7	65.3	0.0	100.0
Pope (N=78)	44.9	55.1	0.0	100.0
Stevens (N=75)	65.3	34.7	0.0	100.0
Traverse (N=76)	64.5	35.5	0.0	100.0
Wilkin (N=77)	75.3	24.7	0.0	100.0

Appendix Table 35. Household size of respondent

County	Percent of respondents by Number of people				Total
	One	Two	Three or more	Refused	
<i>Overall region (N=606)</i>	16.8	48.5	34.2	0.5	100.0
Clay (N=75)	20.0	37.3	41.3	1.3	99.9
Douglas (N=75)	17.3	52.0	28.0	2.7	100.0
Grant (N=75)	18.7	52.0	29.3	0.0	100.0
Otter Tail (N=75)	8.0	65.3	26.7	0.0	100.0
Pope (N=78)	12.8	59.0	28.2	0.0	100.0
Stevens (N=75)	25.3	42.7	32.0	0.0	100.0
Traverse (N=76)	18.4	39.5	42.1	0.0	100.0
Wilkin (N=77)	14.3	40.3	45.5	0.0	100.1

Appendix Table 36. Whether there are children younger than 18 living in respondent's household

County	Percent of respondents by Response			
	Yes	No	Refused	Total
<i>Overall region (N=606)</i>	28.5	71.1	0.3	99.9
Clay (N=75)	42.7	57.3	0.0	100.0
Douglas (N=75)	25.3	73.3	1.3	99.9
Grant (N=75)	20.0	80.0	0.0	100.0
Otter Tail (N=75)	22.7	77.3	0.0	100.0
Pope (N=78)	23.1	76.9	0.0	100.0
Stevens (N=75)	25.3	74.7	0.0	100.0
Traverse (N=76)	39.5	60.5	0.0	100.0
Wilkin (N=77)	29.9	68.8	1.3	100.0

Appendix Table 37. Gender of respondent

County	Percent of respondents by Gender		
	Male	Female	Total
<i>Overall region (N=606)</i>	32.3	67.7	100.0
Clay (N=75)	44.0	56.0	100.0
Douglas (N=75)	34.7	65.3	100.0
Grant (N=75)	18.7	81.3	100.0
Otter Tail (N=75)	41.3	58.7	100.0
Pope (N=78)	30.8	69.2	100.0
Stevens (N=75)	26.7	73.3	100.0
Traverse (N=76)	25.0	75.0	100.0
Wilkin (N=77)	37.7	62.3	100.0

Appendix Table 38. Ways that organizations can provide respondent with educational material and information about environmental health problems and disaster preparedness

County	Percent of respondents* by Sources of delivery									
	Regular mail	TV	Radio	Local newspaper	Community events	Personal contact	Internet	Email	Other**	Refused
<i>Overall region (N=606)</i>	68.6	71.0	58.6	64.2	44.7	50.7	37.1	34.5	6.9	0.7
Clay (N=75)	52.0	68.0	46.7	45.3	26.7	30.7	30.7	29.3	5.3	2.7
Douglas (N=75)	54.7	66.7	52.0	54.7	30.7	50.7	38.7	32.0	8.0	0.0
Grant (N=75)	80.0	78.7	61.3	70.7	50.7	54.7	36.0	38.7	8.0	1.3
Otter Tail (N=75)	69.3	66.7	54.7	68.0	44.0	36.0	37.3	29.3	5.3	0.0
Pope (N=78)	64.1	61.5	50.0	64.1	43.6	46.2	30.8	30.8	7.7	0.0
Stevens (N=75)	72.0	72.0	65.3	70.7	52.0	58.7	44.0	37.3	5.3	1.3
Traverse (N=76)	81.6	85.5	72.4	80.3	60.5	69.7	36.8	36.8	10.5	0.0
Wilkin (N=77)	75.3	68.8	66.2	59.7	49.4	58.4	42.9	41.6	5.2	0.0

*Percentages do not add to 100.0 due to multiple responses.

**See Appendix Table 38-A for a list of other ways that organizations can provide respondent with educational material and information.

Appendix Table 38-A. Other ways that organizations can provide respondent with educational material and information

Response	Number
Telephone	16
Employment	4
School/educational programs	4
Family	3
Library/books and magazines	2
Word of mouth	2
Authorities (police department/fire department visits)	1
Church	1
Community events	1
Don't want contact whatsoever	1
Emergency calling trees	1
In-service training	1
Make kits for purchase	1
Neighbors	1
Not concerned (too old)	1
Public utilities	1
Radio	1
Senior citizens	1
Town meetings	1
Volunteer activities	1
Weather	1

Appendix Table 39. Additional comments

Response
Arial spraying and ground crop dusting is a concern
Be prepared and abreast to what is happening; be prepared
Beet plan emissions, smells are not heavily addressed, and the environment is not a high priority and should be
Biggest concern is smoking in public places
Check water and air more than they do
Community does a very nice job
Community mock drills
Everybody should group together; shouldn't dispose of junk in ditches; tourists should keep their stuff in possession
General public looks too much to the media, they get too much misinformation; they should look more into getting prepared on their own
Have people aware that they can't keep wasting like they are; how wasteful we as Americans are...you can only spend your resources so many times...your children are the ones that will suffer
I am a social worker; had West Nile last year
I don't think MN pollution control is doing enough about lakes and rivers; our land and water is not very clean; our local area has arsenic in wells; concern about size of feed lots; no effective monitoring for size of animal population per acre (overcrowding)
I don't think this country is any more prepared than it was 5 years ago
I think we are more prepared than the federal government; the way they handled Katrina was awful
I find the survey ridiculous; Most average people do not have knowledge about all these questions; don't need to ask about transportation/industry fumes, hello, we live in western Minnesota
I like to recycle, and it is available but it is very selective on what can be recycled, and it is very expensive; everything is a littler harder than it should be and it is not user friendly; the prices are high compared to other states (AZ for example)

Appendix Table 39 (Continued). Additional comments

Response
I have lived on the lake all my life and think everything is peaceful and fine; people that complain a lot are the people who move from Twin Cities to lakes, the old residents here are just fine; people from cities polluted the lake and blame it on farmers
I think if we are realistic about this everybody would panic and be prepared to a point; I think they have us running scared and you can't have a good society that way
I think that even though we are in the rural area, some disaster or disease outbreak can still strike; there are no collection sites for disposing of hazardous waste in my area
I think they're too concerned
I think this area is very well set up on being prepared
I think we're doing a relatively good job but we could improve; we need to be more prepared as first responders, regarding what each person's job is; we're just starting to do this now in the community and it will take some time to develop
I think we're really prepared around here
I was told by our safety director [at nursing home where employed] that our emergency plan would never work, it's only on paper
I wish I knew more about the stuff
I work for a university and wife works for hospital; are pretty informed about the issues
I'm part of the disaster preparedness team; I work for the city and am available for general support
Infection control is one of my areas of interest because of my nursing background; I am concerned about developing more sophisticated methods of protection, especially in rural areas; people should be more active in reading publications in this area-rural can be a risk
In-services through my job have encouraged me to have emergency plan in my home
It is a really long survey
It is hard to think of everything all the time and how much does my part of it help
It would be nice to know if our community had a disaster plan
Keep informed and accept the fact that anything is possible or things can happen
Knowledge is probably the most important thing and how to react
Live in [omitted], the industry/farming runoff is really bad, the water, especially the well water, is greatly polluted; have many family members who died from cancer and the pollution in the water is definitely the one to blame
Living in a rural community I worry about the electricity going out and not knowing about the emergency
Lots of progress has been made, especially regarding pandemic
Making basements mandatory for apartments that don't have a place to go
Melting glaciers are serious
More instruction and workshops need to be given
Never thought about preparedness for her parents until you called; will be discussing this at this week's family gathering
Noise problem from metal recycling plant
Our county and town have a lot of practice events involving disaster preparedness that involves the community
Our local county public health unit is really on top of things; they do a fine job (local law enforcement and EMT's do a great job)
Our people do a good job when necessary; not crime-ridden, not prone to bad storms, not in a flood [area]
People aren't as aware as they should be
People need to pray for this country collectively and individually; they need to pray for our leadership
People should have more common sense with running equipment; they don't know what they are dealing with; wash your hands, better education for kids and parents
People should try to continue to improve the way people are informed about a pending natural disaster
People who fear for things that might not happen
Pretty well on top of everything dealing with health issues
Problem with illegal aliens is the biggest threat to America right now; they are coming over with illnesses, TB, head lice, etc. that we don't have medication for; America is a sanitized country so we have no natural immunity; it is a health, as well as safety, issue

Appendix Table 39 (Continued). Additional comments

Response
Public health system does a very good job
Public is not well educated regarding hazards, like contamination
Put some type of warning on cell phones
Rural areas need to have a stronger understanding of what it is going to take; our church council has discussed the issue but hasn't done anything
Should all be a high priority, should understand you might be without a job, etc.
Sick of people living in terror, don't be afraid of everything
So many things don't affect us until they hit us, a tornado is very likely to happen, terrorism also influences us greatly, such as tax, policy, etc.
Sometimes it can be overdone and cause a panic, or too many rules with no practical information
Standing water, poor drainage
Standing water in ditches is a problem in this area (mosquitoes/insects being the biggest problem)
The beet plant really smells if the wind is from the right direction; recreational water is not overused, but the water appears to be polluted, and that has a lot to do with runoff from industry and farming
The city has done a fairly good job addressing the issue
The more we are informed, the better
The over-publicity turns people off rather than making them more prepared; be cautious to not over-publicize or set off panic; God is in control and we will be fine
The use of chemicals on lawns
They need to advertise the hazardous waste site more as no one really knows about it or how to use it
Until we see what happens, I can't tell, I hope it never does
We have a really good EMT unit
We need to come up with solutions with cars and factories
We need to think about global warming
We teach it at school, the awareness, just basically educating people
Who is to say that recycling is not damaging the earth, the pollutants released in the atmosphere
Wish we had a program to get rid of tires, if water is in them, it is a breeding ground
Work with students and worry about them getting involved with meth; important to guide them, young people think that it won't affect them; West Nile had been serious last summer-the suffering is sad; we need to be aware, community has done a good job with public awareness
Worry about mosquito spraying
You did a really good job putting this survey together

SURVEY INSTRUMENT

Eight-County Environmental Health Survey for Central and Western Minnesota

Hello, my name is _____ and I'm calling from the Center for Social Research at North Dakota State University on behalf of the health departments in an eight-county region in western Minnesota. We are conducting a research study to find out views about public health issues and emergency preparedness among residents in your area. Do you have a few minutes to answer some questions?

The survey is voluntary and you may quit at any time. The information you provide will be combined with that of other residents in your area and your identity will be kept confidential. It should take about 15 minutes to complete the survey.

If you have questions about the study, you may call Dr. Richard Rathge at 701-231-8621. If you have questions about the rights of human research participants or to report a problem, you may call the North Dakota State University Institutional Review Board at 701-231-8908.

To begin, I'd like to ask you some questions that refer to environmental health. Environmental health is defined as environmental factors contributing to the human health of a community. The first series of questions will address **OUTDOOR AIR QUALITY**.

Q1a. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Transportation emissions or exhaust**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1aa. [If Q1a=4 or 5] How would you rank the level of priority in addressing: **Transportation emissions or exhaust** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1ab. [If Q1a=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Transportation emissions or exhaust** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q1b. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Industry fumes**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1ba. [If Q1b=4 or 5] How would you rank the level of priority in addressing: **Industry fumes** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1bb. [If Q1b=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Industry fumes** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q1c. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Stoves and fireplaces (use fuels including wood, corn, pellets)**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1ca. [If Q1c=4 or 5] How would you rank the level of priority in addressing: **Stoves and fireplaces (use fuels including wood, corn, pellets)** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1cb. [If Q1c=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Stoves and fireplaces (use fuels including wood, corn, pellets)** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q1d. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Outdoor fire pits/campfires/fireplaces**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1da. [If Q1d=4 or 5] How would you rank the level of priority in addressing: **Outdoor fire pits/campfires/fireplaces** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1db. [If Q1d=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Outdoor fire pits/campfires/fireplaces** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q1e. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Agricultural dust, burning**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1ea. [If Q1e=4 or 5] How would you rank the level of priority in addressing: **Agricultural dust, burning** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1eb. [If Q1e=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Agricultural dust, burning** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q1f. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Livestock, feedlot odor**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1fa. [If Q1f=4 or 5] How would you rank the level of priority in addressing: **Livestock, feedlot odor** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1fb. [If Q1f=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Livestock, feedlot odor** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q1g. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Lagoon odor**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q1ga. [If Q1g=4 or 5] How would you rank the level of priority in addressing: **Lagoon odor** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q1gb. [If Q1g=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Lagoon odor** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Now, I'd like to ask you a couple questions that address INDOOR AIR QUALITY and HOUSING ISSUES.

Q2a. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Radon**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q2aa. [If Q2a=4 or 5] How would you rank the level of priority in addressing: **Radon** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q2ab. [If Q2a=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Radon** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q2b. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Environmental tobacco smoke (secondhand smoke)**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q2ba. [If Q2b=4 or 5] How would you rank the level of priority in addressing: **Environmental tobacco smoke (secondhand smoke)** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q2bb. [If Q2b=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Environmental tobacco smoke (secondhand smoke)** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q2c. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Asbestos**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q2ca. [If Q2c=4 or 5] How would you rank the level of priority in addressing: **Asbestos** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q2cb. [If Q2c=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Asbestos** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q2d. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Mold**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q2da. [If Q2d=4 or 5] How would you rank the level of priority in addressing: **Mold** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q2db. [If Q2d=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Mold** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q2e. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Carbon monoxide**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q2ea. [If Q2e=4 or 5] How would you rank the level of priority in addressing: **Carbon monoxide** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q2eb. [If Q2e=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Carbon monoxide** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q2f. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Lead**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q2fa. [If Q2f=4 or 5] How would you rank the level of priority in addressing: **Lead** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q2fb. [If Q2f=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Lead** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Now, I'd like to ask you a series of questions that address PUBLIC HEALTH NUISANCES.

Q3a. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Animals/rodents**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q3aa. [If Q3a=4 or 5] How would you rank the level of priority in addressing: **Animals/rodents** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q3ab. [If Q3a=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Animals/rodents** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q3b. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Mosquitoes and other insects**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q3ba. [If Q3b=4 or 5] How would you rank the level of priority in addressing: **Mosquitoes and other insects** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q3bb. [If Q3b=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Mosquitoes and other insects** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q3c. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Meth labs**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q3ca. [If Q3c=4 or 5] How would you rank the level of priority in addressing: **Meth labs** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q3cb. [If Q3c=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Meth labs** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q3d. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Garbage/junk houses**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q3da. [If Q3d=4 or 5] How would you rank the level of priority in addressing: **Garbage/junk houses** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q3db. [If Q3d=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Garbage/junk houses** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q3e. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Illegal/open dumps**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q3ea. [If Q3e=4 or 5] How would you rank the level of priority in addressing: **Illegal/open dumps** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q3eb. [If Q3e=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Illegal/open dumps** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q3f. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Improper disposal of hazardous waste**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q3fa. [If Q3f=4 or 5] How would you rank the level of priority in addressing: **Improper disposal of hazardous waste** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q3fb. [If Q3f=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has the **Improper disposal of hazardous waste** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q4. Regarding household hazardous waste, does your community have a collection site for disposing of household hazardous waste, such as household chemicals, fluorescent light bulbs, batteries, paint, used motor oil, etc.?

1. Yes
2. No
3. [DNK]

Q4a. [If Q4=1] Are the hours convenient?

1. Yes
2. No
3. [DNK]

Q4b. [If Q4=1] On a one to five scale, with one being "never" and five being "all of the time," how often do you dispose of your household hazardous waste at the collection site?

1. Never 2. 3. 4. 5. All of the time 6. [DNK/refused]

The next series of questions addresses RECREATIONAL WATER.

Q5a. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Public pools and spas**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5aa. [If Q5a=4 or 5] How would you rank the level of priority in addressing: **Public pools and spas** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5ab. [If Q5a=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Public pools and spas** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q5b. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Lakes and swimming beaches**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5ba. [If Q5b=4 or 5] How would you rank the level of priority in addressing: **Lakes and swimming beaches** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5bb. [If Q5b=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Lakes and swimming beaches** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q5c. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Industry runoff**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5ca. [If Q5c=4 or 5] How would you rank the level of priority in addressing: **Industry runoff** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5cb. [If Q5c=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Industry runoff** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q5d. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Agricultural runoff such as feedlots and pesticides**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5da. [If Q5d=4 or 5] How would you rank the level of priority in addressing: **Agricultural runoff such as feedlots and pesticides** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5db. [If Q5d=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Agricultural runoff such as feed lots and pesticides** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q5e. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Overuse of recreational water by campers and boaters**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5ea. [If Q5e=4 or 5] How would you rank the level of priority in addressing: **Overuse of recreational water by campers and boaters** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5eb. [If Q5e=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Overuse of recreational water by campers and boaters** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q5f. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Improper sewage disposal**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5fa. [If Q5f=4 or 5] How would you rank the level of priority in addressing: **Improper sewage disposal** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5fb. [If Q5f=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Improper sewage disposal** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q5g. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Fertilizer runoff**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q5ga. [If Q5g=4 or 5] How would you rank the level of priority in addressing: **Fertilizer runoff** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q5gb. [If Q5g=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Fertilizer runoff** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

The next series of questions dealing with environmental health problems addresses DRINKING WATER.

Q6a. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem are: **Abandoned wells that are not sealed**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q6aa. [If Q6a=4 or 5] How would you rank the level of priority in addressing: **Abandoned wells that are not sealed** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q6ab. [If Q6a=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," have **Abandoned wells that are not sealed** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q6b. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Contaminated PUBLIC drinking water**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q6ba. [If Q6b=4 or 5] How would you rank the level of priority in addressing: **Contaminated PUBLIC drinking water** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q6bb. [If Q6b=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Contaminated PUBLIC drinking water** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q6c. On a one to five scale, with one being "not a problem at all" and five being "a serious problem," how much of an environmental health problem is: **Contaminated PRIVATE drinking water**

1. Not a problem at all 2. 3. 4. 5. A serious problem 6. [DNK/refused]

Q6ca. [If Q6c=4 or 5] How would you rank the level of priority in addressing: **Contaminated PRIVATE drinking water** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q6cb. [If Q6c=4 or 5] On a one to five scale, with one being "not at all" and five being "a great deal," has **Contaminated PRIVATE drinking water** affected a household member's health, including your own?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

The last series of questions dealing with environmental health issues address FOOD PROTECTION.

Q7a. On a one to five scale, with one being "not addressed at all" and five being "very well addressed," to what degree are food health and safety standards addressed in the following areas: **Food in restaurants and bars**

1. Not addressed at all 2. 3. 4. 5. Very well addressed 6. [DNK/refused]

Q7aa. [If Q7a=1 or 2] How would you rank the level of priority in addressing: **Food in restaurants and bars** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q7ab. [If Q7a=1 or 2] On a one to five scale, with one being "not at all" and five being "a great deal," has any household member's health, including your own, been affected by poor health and safety standards regarding: **Food in restaurants and bars**

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q7b. On a one to five scale, with one being "not addressed at all" and five being "very well addressed," in your community, to what degree are food health and safety standards addressed in the following area: **Food in grocery and convenience stores, delis, and meat markets**

1. Not addressed at all 2. 3. 4. 5. Very well addressed 6. [DNK/refused]

Q7ba. [If Q7b=1 or 2] How would you rank the level of priority in addressing: **Food in grocery and convenience stores, delis, and meat markets** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q7bb. [If Q7b=1 or 2] On a one to five scale, with one being "not at all" and five being "a great deal," has any household member's health, including your own, been affected by poor health and safety standards regarding: **Food in grocery and convenience stores, delis, and meat markets**

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q7c. On a one to five scale, with one being "not addressed at all" and five being "very well addressed," in your community, to what degree are food health and safety standards addressed in the following area: **Food prepared for and served at community events, such as potlucks and church dinners**

1. Not addressed at all 2. 3. 4. 5. Very well addressed 6. [DNK/refused]

Q7ca. [If Q7c=1 or 2] How would you rank the level of priority in addressing: **Food prepared for and served at community events, such as potlucks and church dinners** where one is "low priority," two is medium priority, and three is high priority?

1. Low priority 2. Medium priority 3. High priority 4. [DNK/refused]

Q7cb. [If Q7c=1 or 2] On a one to five scale, with one being "not at all" and five being "a great deal," has any household member's health, including your own, been affected by poor health and safety standards regarding: **Food prepared for and served at community events, such as potlucks and church dinners**

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Now we would like to know your opinions on the topic of EMERGENCY PREPAREDNESS in the event of a threatening emergency or disaster. [press any key to continue]

Q8. On a one to five scale, with one being "not at all worried" and five being "very worried," how worried are you about...

- Household emergencies, such as fire, gas leaks, etc.
- Natural disasters such as violent storms, tornadoes, winter ice storms, floods
- Chemical spills
- A disease outbreak, such as flu or a pandemic
- Terrorism

1. Not at all worried 2. 3. 4. 5. Very worried 6. [DNK/refused]

Q9. In the event of a threatening emergency or disaster, how would you be alerted to, or get information about, the emergency or disaster? [check all that apply, then click NEXT] Would you use or be alerted by:

- A battery-operated radio
- Sirens
- A TV
- A Scanner
- Word of mouth by neighbors
- Other (Specify: _____)
- [Refused]

Q10. On a one to five scale, with one being "not at all confident" and five being "very confident," how confident are you that your community or area can respond to a large-scale disaster or emergency?

1. Not at all confident 2. 3. 4. 5. Very confident 6. [DNK/refused]

Common emergency preparedness measures include the development of a family emergency plan that includes phone numbers of family contacts and important personal information, and emergency supplies of food and water for 3 days, clothing items, a battery-powered radio, medications and other important items. [press any key to continue]

Q11. On a one to five scale, with one being "not at all prepared" and five being "very prepared," how prepared is your household for an emergency or disaster?

1. Not at all prepared 2. 3. 4. 5. Very prepared 6. [DNK/refused]

Q11a. [If Q11=1 or 2] On a one to five scale, with one being "not at all likely" and five being "very likely," how likely is your household to take necessary steps, within the next three months, to prepare for an emergency or disaster?

1. Not at all likely 2. 3. 4. 5. Very likely 6. [DNK/refused]

Q11b. [If Q11a=1 or 2] What are the barriers preventing you from taking the necessary steps in preparing for an emergency or disaster? [check all that apply, then click NEXT] You...

- Do not think it is important
- Don't know how to put an emergency plan and supplies together
- Have not had time
- Think it is too expensive
- Other (Specify: _____)
- [Refused]

Q11c. [If Q11a=1 or 2] On a one to five scale, with one being "not at all likely" and five being "very likely," how likely are you to overcome the barriers to becoming prepared for an emergency or disaster?

1. Not at all likely 2. 3. 4. 5. Very likely 6.
[DNK/refused]

Q12. On a one to five scale, with one being "not at all" and five being "a great deal," how much do the opinions of FAMILY MEMBERS or FRIENDS, influence your decision about emergency preparedness (for example, developing an emergency plan and supply kit)?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q13. On a one to five scale, with one being "not at all" and five being "a great deal," how much do the opinions of EMERGENCY PERSONNEL, such as fire, police, emergency medical services, influence your decision about emergency preparedness (for example, developing an emergency plan and supply kit)?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q14. On a one to five scale, with one being "not at all" and five being "a great deal," how much does information from THE MEDIA (newspapers, TV, radio, brochures, Internet, magazines, etc.,) influence your decision about emergency preparedness (for example, developing an emergency plan and supply kit)?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Q15. On a one to five scale, with one being "not at all likely" and five being "very likely," what do you think is the likelihood an emergency or natural disaster will occur in your community?

1. Not at all 2. 3. 4. 5. A great deal 6. [DNK/refused]

Just a few final questions so we can know more about who responded to the survey. [press any key to continue]

Q16. Which category best describes your age?

1. Less than 21 years of age
2. 21 to 24 years of age
3. 25 to 34 years of age
4. 35 to 44 years of age
5. 45 to 54 years of age
6. 55 to 64 years of age

7. 65 years or older
8. [Refused]

Q17. Which category best describes your current level of education?

1. Less than high school
2. High school graduate or GED
3. Some vocational/technical school, but no degree
4. Vocational/technical degree
5. Some college, but no degree
6. College degree
7. Graduate school or professional degree
8. [Refused]

Q18. Which category best describes your annual household income before taxes?

1. Less than \$20,000
2. \$20,000 to \$34,999
3. \$35,000 to \$49,999
4. \$50,000 to \$74,999
5. \$75,000 to \$99,999
6. \$100,000 or more
7. [Refused]

Q19. Do you live inside or outside city limits?

1. Inside city limits
2. Outside city limits
3. [DNK/refused]

Q20. What is your household size?

1. One person
2. Two people
3. Three or more people
4. [DNK/refused]

Q21. Are there children younger than 18 living in your home?

1. Yes
2. No
3. [DNK/refused]

Q22. Finally, I will read a list of ways that information is delivered. Please tell me the best way an organization can provide you with educational materials and information about environmental health problems and disaster preparedness. [check all that apply, then click NEXT]

- Regular mail
- TV
- Radio
- Local newspaper
- Community events
- Personal contact
- Internet
- Email
- Other (Specify: _____)
- [Refused]

Q23. Are there any comments regarding environmental health issues or disaster preparedness you would like to add? [enter response, then click NEXT] [if nothing to add, click NEXT]

Thank you for helping us with this important study. Goodnight.

Q24. Record gender based on voice.

1. Male 2. Female

Q25. Record zip code based on call sheet: _____

Q26. Record county code based on call sheet.

1. Clay (27)
2. Douglas (41)
3. Grant (51)
4. Otter Tail (111)
5. Pope (121)
6. Stevens (149)
7. Traverse (155)
8. Wilkin (167)