# Mississippi-Winona Watershed Resident Survey Summary of Results

#### Introduction

The Whitewater Watershed Joint Powers Board conducted a survey of residents of the Mississippi-Winona Watershed (see map, Figure 1) in January 2013. The survey entailed mailing a six page questionnaire (see

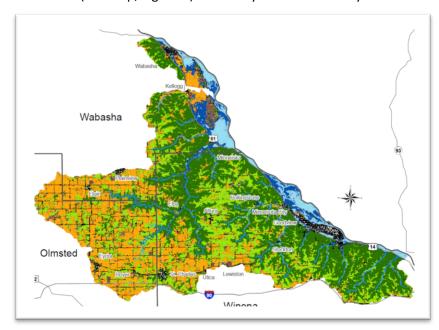


Figure 1

Appendix 1) to 2,816 residences in the Mississippi-Winona Watershed (excluding residents of the Logan Branch and the Middle Branch of the Whitewater River, who were surveyed in 2011). We received usable responses from 925 households, for a response rate of 33%, over the 30% threshold survey researchers consider to be representative.

The 925 survey results from the 2013 survey were combined with the 117 survey respondents from the 2011 resident survey of the Middle Branch Whitewater and Logan Creek watersheds. Table 1 shows the breakdown of the sample and response rates for the combined surveys, based on an analysis of answers to questions about water

supply and land owned. Note that the categories that distinguish respondents overlap. For example, while 290 respondents reside in cities, 22 city residents own 120 acres or more in the watershed, and at least 48 other city residents are somehow engaged in farming (including retired farmers).

#### **Sample Construction**

	2011	2013		Combined		
	Survey	Survey	Combined	Valid	Valid	Response
Subset	Population	Population	Population	Sample	Responses	Rate
Cities (municipal water)	0	13,084	13,084	1,126	290	25.8%
non-farm (other < 10 acres)	133	2,791	2,924	686	257	37.5%
small farm (10 < 120 ac.)	113	1,280	1,393	689	210	30.5%
large farm ( 120 ac. +	312	709	1,021	873	285	32.6%
Total	558	17,864	18,422	3,374	1,042	30.8%
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Table 1

<sup>1</sup> Described in "Whitewater Watershed Resident Survey Summary of Results," Whitewater Joint Powers Board, December 29, 2011

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The combined surveys contacted a total of 3,374 households, of whom 1,042 responded with usable surveys, for an overall response rate of 31%.

The population size is small enough and the response level high enough that we can be 95% confident that, if a sample proportion is reported as 50%, the population proportion is within a range of plus or minus 4.3% (that is, from 45.4% to 54.6%). Where a sample proportion is very high or very low, the range is reduced (for example, if the sample proportion is 90%, the range is plus or minus 2.6%).

However, we know from the survey results that in some respects, the sample is not representative of the population. For example, the unweighted proportion of females among survey respondents is only 22%, whereas we would expect slightly over 50% based on Census data for Winona County, where the majority of the population live. However, 68% of owner-occupied households in Winona County are either married-couple families or single male-headed households, so making allowances for a tendency for households to assign the task of filling out surveys related to land use and water quality to males, we assume the survey represents the opinions of households with an interest in water and land use.

Similarly, the unweighted median age of respondents is 59, compared to a median age for Winona County home owners of 44.<sup>2</sup> However, the median age for household heads of owner households in the townships in the surveyed areas of the three counties is roughly 55,<sup>3</sup> so considering that the response rate was higher for townships than for city dwellers, the respondent median age is roughly representative of rural homeowners. Accordingly, we have not attempted to weight responses to achieve an age and gender balance representative of the population of the watersheds.

Making those allowances, the results appear to provide a sound basis for planning community education and other efforts to address water quality concerns in the watershed. This report reviews key findings from both surveys and explores some of the differences in responses among various respondent groups (operators of farms compared to others, for example).

#### **Key Findings**

The survey reveals the following important findings about the respondents and, assuming the survey is representative, about the residents of the watershed:

- The respondents exhibit a strong commitment to water quality. An overwhelming majority of
  respondents rated as extremely or very important such water quality issues as clean rivers and streams,
  maintaining the water quality and flow of springs, and clean well water. This was true regardless of the
  background of the respondents.
- A high proportion (27%) of respondents who rely on private well water do not know whether their well is cased and grouted, do not know the aquifer their well relies on (63%), and do not have a source of information about the quality of their well water (25%).
- Relatively high proportions of respondents consider themselves very uninformed or somewhat
  uninformed about a number of specific water quality issues in the watershed. Given the level of
  commitment to water quality, the survey indicates an opportunity for awareness building in the
  watershed.

<sup>&</sup>lt;sup>2</sup> Analysis based on Table B25007 of the American Community Survey 2007-11 data.

<sup>&</sup>lt;sup>3</sup> Analysis based on Table H17 of the 2010 Census for 26 townships in the surveyed area.

- Rural respondents list two sets of agencies as significant current sources of information, the county
  extension services and the soil and water conservation districts. Printed fact sheets are a clear
  preference as sources of information.
- Respondents favor education, grassroots action, neighbor interaction, and local government as ways to
  protect water quality. Respondents consider clean groundwater, streams as clean as their natural
  condition, and streams that are safe for fishing as matters of right to which they are entitled.
- While there were significant differences between the group of farmer-operators (defined as operators of farms or owners of 120 acres or more of land in the watershed) and others (every other survey respondent), for the most part there was widespread consensus on water quality issues.

#### Weighting Responses by Land Ownership and Water Supply

Because both surveys included information about land ownership and drinking water supply, it is possible to weight survey responses in order to reflect the actual distribution of households in the watershed area.

	# of Households
	Each Survey
Category	Represents
large farms (120+ acres)*	3.6
mid-sized farms (10 - 120 acres)*	6.2
non-farms (< 10 acres)*	10.4
cities	53.4
Average	17.7

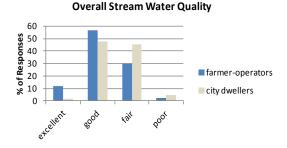
The weighted results represent the relative proportions of owner occupied households in cities and rural owner-occupied households with different ranges of land ownership. We grouped city residents owning 120 acres or more with rural land owners of 120 acres or more, rather than with city residents owning under an acre.

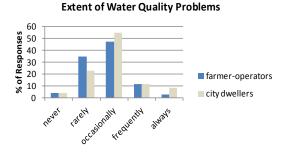
Table 2

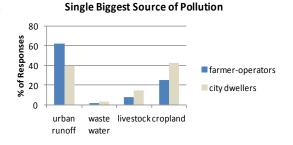
#### **Survey Highlights**

### Large farmer operators and city dwellers on small properties:

The survey results confirm that occupation, land ownership, and jurisdiction type are associated with differences of opinion. Figures 2 and 3 show the range of responses for two groups of sample respondents on questions of the extent of stream water quality problems, potential pollution sources, and basic governance philosophies. The two groups are "city dwellers," comprised of those who own less than one acre of land AND who have never engaged in farming AND who rely on municipal water supplies (173 respondents); and "farmer operators," comprised of those who are active farmer operators AND who own 120 acres or more (154 respondents). The comparisons show differences of opinion on several issues. Regarding stream water quality, over half of city respondents consider stream water quality to be fair or poor, compared to less than a third of farmer-operators, while 39% of farmer-operators consider stream water quality to be never or only rarely a problem, compared to 26% of city respondents. The groups also have differing opinions on the chief source of water quality problems, with 62% of farmer-

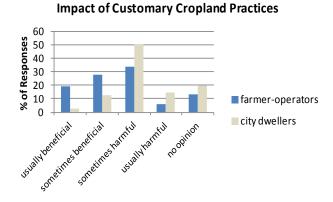


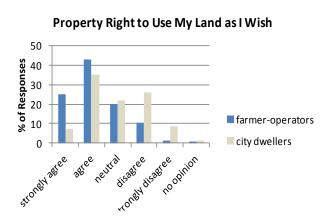




operators listing runoff from streets, lawns, and urban lands (vs. 40% for city respondents) and with 42% of city dwellers listing cropland (vs. 25% of farmer-operator respondents).

Similarly, the two groups had differing opinions on the impact of "cropland practices customary in the watershed," with 47% of farmer respondents considering them usually or sometimes beneficial compared to only 15% of city respondents, while 65% of city respondents consider customary cropland practices to be sometimes or usually harmful.





There were significant differences between the two groups on questions related to governance. While 25% of farmer-operators strongly agreed with the statement, "If I own property, I have a right to use my land as I wish," the proportion among city respondents was only 7%. Only 11% of farmer-operator respondents disagreed or strongly disagreed with that statement, compared to 35% of city dwellers.

While there were areas of difference, many of the governance questions had high levels of agreement, as did many of the questions about the importance of several water issues. For example, overwhelming proportions of both farmer-operators and city residents agree or strongly agree with the statements "if I own a well, I have a right to clean drinking water" (89% of farmer-operators and 84% of city dwellers); "the public has a right to streams that are as clean as their natural condition" (80% farmer-operators, 91% city dwellers); and "in public waters, I have a right to catch fish that are safe to eat" (78% farmer-operators, 93% city dwellers). Farmer-operators and city-dwellers represent the most divergent subsets in the survey.

#### **Engagement in Farming:**

Since 94.4% of survey respondents answered the question "Are you currently engaged in farming?" we can use those respondents to determine issues where differences or similarities of opinion, levels of awareness, information needs, and so on, make a difference for planning and educational development purposes. Appendix 2 analyzes the differences (for every question in the survey) between the 513 respondents who answered "no" to the engagement in farming question and the 471 respondents who checked any of the responses other than "no." Appendix 2 includes both weighted and unweighted responses depending on the type of question. In examining the differences among the responses from different mixes of land ownership and jurisdiction, the weighted average proportions provide the most representative values for the watershed community as a whole. The differences and similarities between the two groups mirror the differences and similarities identified in the smaller farmer-operators and city-dweller comparisons.

Many respondents (471 out of 984 valid (non-missing) responses) have had at least some involvement in farming.

Are you currently engaged in farming? (Check the description that best applies.)	Count	% of Valid
Yes, as an operator or spouse of an operator of land that I/we own or rent	232	23.6%
Yes, as an owner or spouse of an owner of land that we rent to others	175	17.8%
Yes, as an employee of a farmer or on-farm service business	20	2.0%
Yes, in another way (please specify: help family, minor farming, CRP)	10	1.0%
No, I am a retired farmer	34	3.5%
No	513	52.1%
Total Responses	984	
Missing (left blank: 5.6%)	58	

Table 3

#### **Importance of Water Quality Issues**

There is consensus among respondents on the importance of various issues regarding groundwater and surface water. Even where differences in sub-groups are statistically significant (shaded cells in Table 4), the differences are inconsequential; majorities of both sub-groups are clearly on the same side of these issues.

Table 4

#### % Extremely or Very Important

		not engaged in	any involvement in
Issue (Weighted Responses)	full sample	farming	farming
Clean well water for existing homes	92.6%	92.5%	92.7%
Clean rivers and streams	91.8%	93.5%	83.0%
Water quality of springs	83.8%	83.7%	81.4%
Stream habitat	81.9%	84.5%	68.4%
Avoiding threats to shallow wells	81.7%	82.3%	77.9%
Minimizing flood damages	80.9%	81.1%	78.3%
Clean well water for livestock	80.5%	79.1%	85.7%
Habitat around springs	80.2%	81.5%	70.3%
Preserving wetlands	77.6%	79.7%	65.7%
Habitat for fish & ducks	77.3%	80.2%	66.2%
Flow quantity of springs	76.0%	76.4%	71.5%
Accommodating industries	33.0%	30.1%	36.8%
Accommodating residential growth	32.6%	32.0%	33.1%
Irrigation for lawns	16.6%	15.9%	15.2%

#### **Opinions on Governance**

There is also general consensus among respondents on issues relating to governance and general approaches to addressing water quality issues. While there are statistically significant differences between the farmer and non-farmer subgroups (shaded cells in Table 5), there are only two questions for which the differences are such as to put a majority of one group on a different side of the issue than the majority of the other group (**bold** cells). Those two are reliance on federal regulations as a means of addressing water quality and property ownership entailing a right to use land as the owner wishes.

Table 5

	% Strongly Agree or Agree				
	not				
How Much Do You Agree or Disagree with the Following Statements? (Weighted Responses)	full sample	engaged in farming	any involvement in farming		
A good way to protect water quality is through education	93.40%	94.20%	89.90%		
Whether or not I own a well, I have a right to clean groundwater	92.30%	93.30%	89.40%		
In public waters, I have a right to catch fish that are safe to eat	91.40%	92.90%	86.80%		
The public has a right to streams that are as clean as their natural condition	87.60%	91.00%	76.90%		
If I own a well, I have a right to clean drinking water	86.50%	86.00%	90.50%		
Local regulations are a good way to protect streams and groundwater	76.70%	78.70%	67.60%		
Effective watershed management is best done at the grassroots level	73.30%	72.30%	79.10%		
State regulations are a good way to protect streams and groundwater	69.90%	72.80%	54.00%		
A good way to protect water quality is by neighbors talking to neighbors	56.40%	55.70%	58.00%		
The government should provide incentives for water quality protection	55.40%	54.60%	58.80%		
Federal regulations are a good way to protect streams and groundwater	54.80%	57.00%	43.40%		
If I own property, I have a right to use my land as I wish	47.30%	45.10%	57.40%		
Most people will voluntarily give up profits to protect water quality	19.50%	18.50%	22.30%		
Most people will voluntarily give up profits to protect natural habitats	17.80%	17.80%	16.20%		
If I own property, I should be paid to prevent erosion	15.90%	11.40%	32.50%		
Free market forces adequately protect water resources	10.30%	9.00%	16.90%		

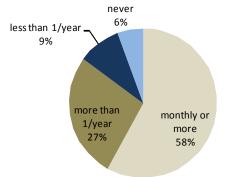
#### Other Questions and Background

Water Supply: All but 17 respondents answered the question about water supply. Two-thirds of respondents rely on private wells (representing 26% of households in the watershed) and 28% rely on municipal water supply (representing 81% of the watershed households). Almost two-thirds of respondent treat their water by softening and over 75% of respondents use at least one water treatment. Municipal utilities could provide an avenue for education for city dwellers, and water treatment companies could provide an avenue for education for all residents.

**Recreation:** A high proportion of all respondents recreate in the area monthly or more frequently (44% unweighted and 49% weighting by land ownership and water supply. Non-farmers recreate more frequently than farmers: 54% of non-farmers and 28% of those with any involvement in farming recreate at least monthly. For questions about recreation, the respondents' age and sex may influence responses.

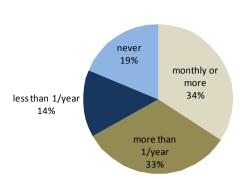
#### Non-farmers

### How often do you use the area around the Mississippi River-Winona Watershed for a recreational purpose?



#### Any involvement in farming

How often do you use the area around the Mississippi River-Winona Watershed for a recreational purpose?



In order of activity, weighted by respondent characteristics, the most prevalent were walking or hiking, fishing, and swimming/wading/watercraft among non-farmers, and walking or hiking, fishing and, hunting among those with any involvement in farming. Women of all ages recreate less frequently than men and older respondents recreate less frequently than younger respondents.

**Gender**: As mentioned above, 21% of respondents are females (30%, weighted by ownership and water source). Of the 830 respondents who answered questions about age, sex, and occupation, only 9.9% of farm owner-operators are female.

Watershed Residence: Slightly over 90% reside in the watershed. The survey was intended for homeowners, so the address that the survey was mailed to was the taxpayer's address from the property records of the three counties. The respondents indicating they live outside the watershed should include chiefly (1) people who have recently moved from their properties; (2) people who misunderstood the term "Mississippi River/ Winona Watershed;" or (3) people own property within the watershed, but whose residence is outside the borders of the watershed.

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**Age**: Of 1,042 respondents, 169 left the question about age unanswered. The median age of those who did respond is 59 (unweighted). Those with current or past engagement in farming (including retired farmers) had a median age of roughly 62.5, compared to 57.5 for those not engaged in farming. Excluding retired farmers, the average age of those involved in farming was roughly 60.3.

#### **Potential Action Steps**

The survey used a stratified sample approach in order to reach meaningful about the sub-groups in the watershed. Because the land area of the watershed is mostly rural, the group with the most influence on the water quality of the watershed are the owners of rural land. It will be important to tailor educational offerings to farmers in ways that reflect the survey findings about what information farmer-operators need, and their preferred means of obtaining information. Education efforts should perhaps rely on trusted agencies such as the Soil and Water Conservation Districts (SWCDs) and the Extension Services, and on peer ("neighbors talking to neighbors") interactions.

Because most of the residents of the watershed are urban dwellers, they are also an important group to address with educational efforts. A majority of non-farm respondents rely on local television and radio as a very significant or major source of information about water quality issues, and do not rely to as significant an extent on the SWCDs and Extension Services. Agencies involved in informing the public about water quality issues should adopt a range of strategies addressing these differences.

While there are differences among sub-groups, it cannot be overemphasized that there is widespread consensus among respondents on most matters covered in the survey.

#### APPENDIX 1: Mississippi River – Winona Watershed Resident Survey text

Following is the text of the 2013 survey, with minor changes in formatting. The 2011 survey is virtually identical, with only a few changes in the order of questions and some minor changes in questions and responses, for example, including municipal water supply as an option in question 1. The full text of that survey can be found in the appendix of the report on the 2011 survey.

Thank you for taking time to complete this survey. We are conducting this anonymous survey to learn more about how residents and landowners in the Mississippi River – Winona Watershed value our water resources, how we use our watershed, and how we view and appreciate the watershed. **Thank you for participating.** 

You may complete the survey online by going to http://www.surveymonkey.com/s/XPQ8KTZ or by mailing your completed survey in the postage-paid envelope that has been provided.

#### **DRINKING WATER**

1.	What is the primary source of drinking water in your home? (Check one box.)								
		Private well or shared well				Municipal Water [skip to 4]			
		Bottled water [skip to 4]				Don't know [skip to 4]			
		Natural spring [skip to 4]				Other (please list) [skip to 4]			
2.	ls yo	our well cased and grouted?							
		Yes		No		☐ Don't know			
3.	Wha	at aquifer does your well draw from? (C	heck	one box.)					
		Jordan Aquifer or deeper				Galena formation or shallower aquifer			
		Prairie du Chien				Other (please list)			
		St. Peter							
		Multiple aquifers				Don't know			
4.	Wha	at types of water treatment do you use	in yo	ur home, if a	iny? (Ch	eck <u>all</u> that apply.)			
		Water softener				Ultraviolet (UV) system			
		Water softener with iron filter				Carbon filter			
		Reverse osmosis				Other (please list)			
		Sediment filter							
		Chlorination				Don't know/ Don't use treatment			
5.	Wha	at is your <b>chief</b> source of information as	to th	ne quality of	your drii	nking water? (Check <u>one</u> box.)			
		Test results from a laboratory				Other (please list)			
		Municipal water quality report							
		Don't recall the source but did get				I do not have such information			
		information							

**6.** How would you rate the overall quality of your **drinking** water? (Check **one** box in each row.)

Attribute	Excellent	Good	Fair	Poor	No Opinion
Taste					
Clarity					
Safety prior to treatment (level of pollutants)					
Other (please specify)					

#### **WATER QUALITY**

1.	How would you rate overall so box.)	trear	n water quality in the Mis	ssissi	opi River-Winona Watersho	ed ar	ea? (Check <u>one</u>
	☐ Excellent		Good		Fair		Poor
2.	If stream water quality were to of your using the area for reco		•	than	it is now, how would this a	affec <sup>.</sup>	t the likelihood
	I would use streams for recre	atio	n 🛮 less often		☐ more often	<u> </u>	the same.
3.	If stream water quality were to of your using the area for reco		•	than	it is now, how would this	affec	t the likelihood
	I would use streams for recre	atior	less often		more often	□ 1	the same.
4.	To what extent do you consid Watershed area? (Check <u>one</u>		· ·	is to	be a problem in the Mississ	sippi	River-Winona
	☐ Never a problem				Frequently a problem		
	<ul><li>Rarely a problem</li><li>Occasionally a problem</li></ul>				Always a problem		
5.	What do you think is the <b>sing</b> Watershed area? (Check <b>one</b>			iter p	ollution in the Mississippi	River	-Winona
	☐ Runoff from streets, lawn	s, &	urban lands		Cropland operations		
	<ul><li>Household wastewater (s</li><li>Livestock operations</li></ul>	eptio	c systems)		Other		
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**6.** In your opinion, how do these land uses/practices affect water quality? (Check <u>one</u> box in each row.)

	Usually	Sometimes	Sometimes	Usually	
Water Quality Practice	beneficial	beneficial	harmful	harmful	No opinion
Amount of land area in forest or grassland					
Amount of land area in cropland					
Amount of land area in pasture					
Amount of land area in urban or suburban development					
Application of manure or fertilizer at customary rates					
Application of pesticides at customary rates					
Row crops within 50 feet of streams					
Impact of cropland practices customary in the watershed					
Impact of feedlot (livestock confinement) practices					
Impact of livestock pasturing					

**6.** In your opinion, how do these land uses/practices affect water quality? (Check <u>one</u> box in each row.)

	Usually	Sometimes	Sometimes	Usually	
Water Quality Practice	beneficial	beneficial	harmful	harmful	No opinion
Impact of residential and commercial lawn		С	Г	Г	_
practices	Ш		Ц		П
Impact of septic systems					
Impact of road runoff (road salt and sand)					
Drainage of wetlands					
Installing drainage tile in farm fields that are not wetlands					
Drainage tile outlets to streams or sinkholes					
Farm runoff to streams or sinkholes					
Urban runoff to streams or sinkholes					

**7.** Do you know of or suspect that any of the following conditions (whether naturally occurring or manmade) affect **groundwater** quality in the Mississippi River-Winona Watershed? (Check **one** box in each row.)

Pollutant	Certain it is NOT a problem	Suspect it is <u>NOT</u> a_problem	Don't know	Suspect it <u>IS</u> a problem	Certain it <u>IS</u> a problem
High levels of bacteria					
High levels of nitrates					
Heavy metals (lead, arsenic)					
Minerals (calcium, iron)					
High levels of pesticides					
High levels of radioactivity					

**8.** Do you know of or suspect that any of the following conditions affect <u>stream</u> water quality in the Mississippi River-Winona Watershed? (Check <u>one</u> box in each row.)

Pollutant	Certain it is <u>NOT</u> a problem	Suspect it is NOT a problem	Don't know	Suspect it IS a problem	Certain it IS a problem
High levels of bacteria					
High levels of nitrates					
Heavy metals (lead, arsenic)					
Minerals (calcium, iron)					
High levels of pesticides					
High levels of sediment					
High levels of salts					

9. How important are each of the following water issues to you? (Check one box in each row.)

	Extremely	Very	Somewhat	Not	No
Issue	important	important	important	important	opinion
Clean rivers and streams					
Maintaining flow quantity of springs					
Maintaining water quality of springs					
Maintaining habitat around springs					
Clean well water for existing homes					
Clean well water for livestock					
Preserving wetlands					
Minimizing flood damages					
Habitat for game fish and ducks					
Accommodating new or growing water-using industries					
Accommodating residential growth					
Irrigation for lawns, golf courses, etc.					
Preserving stream habitat					

Issue	Extremely important	Very important	Somewhat important	Not important	No opinion
Avoiding threats to water supply or water quality of shallow wells					

**10.** Which of the following best describes your level of awareness of the following water quality issues in the Mississippi River-Winona Watershed? (Check **one** box in each row.)

Issue	Very informed	Somewhat informed	Somewhat uninformed	Very uninformed
Quality of drinking water from wells				
Trends in levels of nitrates in area wells				
Trends in levels of pesticides in area wells				
Trends in levels of sediment in area streams				
Trends in levels of bacteria in area streams				
Trends in levels of nitrates in area streams				
Impact of nitrates on fish in area streams				
Impact of sediments on fish in area streams				
My general awareness of water quality issues				
The process of identifying "impaired waters" (streams that do not meet water quality standards) <sup>4</sup>				
The impaired or unimpaired status of area streams				
Ways to reduce sediment in streams that are designated as impaired for turbidity				
Ways to reduce bacteria levels in streams that are designated as impaired for bacteria				
Ways to reduce nitrates in streams that are designated as impaired for nitrates				

#### **INFORMATION SOURCES AND PRACTICES**

**1.** How much do you rely on the following sources for information about local water quality issues? (Check <u>one</u> box in each row.)

	Very significant	Major	Minor	Not a
Sources of Information	source	source	source	source
State agency staff				
County extension service staff				
County soil and water district staff				
Local radio or television				
Newspaper or weekly to monthly magazines				
National radio or television (NBC, PBS, NPR, etc.)				
Internet sources				
Outdoor interest groups (Trout Unlimited, Ducks Unlimited, sportsmen's groups, etc.)				
Farm advocacy groups				
Environmental groups				
Books or journals				
Public meetings or public hearings				
Field demonstrations of conservation practices				
Classes				
Other (please list:)				

 $<sup>^{\</sup>rm 4}$  This is referred to as the "total maximum daily load," or TMDL process.

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2.	<ul> <li>Have you ever served on or participated in any of the following organizations? (Check <u>all</u> that apply.)</li> </ul>					
		Master gardener program			Local boards and commissions	
		Citizen stream monitoring program			Outdoor interest groups (Trout Unlimited, Duck	
		Environmental groups			Unlimited, Sportsmen's Clubs, etc.)	
		Farm advocacy groups			Other	
3.	If th	ne following kinds of learning opportunities were availab	ole, whi	ch wo	ould you be most likely to take advantage of to	
	lear	n about water quality issues? (Check <u>all</u> that you would	l be like	ely to	use.)	
		Printed fact sheets			Take part in a volunteer program (for example,	
		Visit a website			stream monitoring or stream bank restoration)	
		Attend a weekend or evening class			Train for a regular volunteer position	
		Look at a demonstration or display			Get an expert to assess your water-related	
		Read a newspaper article or series			practices	
		Watch a video or DVD			Attend a fair or festival	
		Take a course for certification or credit			Other (please list)	
		Watch a television program				
4.	Hav	re you or someone in your household done any of the fo	llowing	g to co	onserve water or preserve water quality? (Check	
	all	that apply.)				
		Replaced or repaired your septic system		Red	uced or eliminated farm chemical applications	
		Pumped your septic system		Insta	alled water saving fixtures in your home	
		Tested your drinking water		Imp	roved management of livestock waste	
		Reduced or eliminated lawn watering		Insta	alled erosion control practices	
		Changed the landscaping in your yard		Oth	er (please list)	
		Reduced or eliminated lawn chemical				
	арр	lications				

#### Governance

1. How much do you agree or disagree with the following statements? (Check **one** box in each row.)

1. How much do you agree or disagree	Strongly	<u> </u>			Strongly	No
Statement	Agree	Agree	Neutral	Disagree	disagree	opinion
If I own property, I have a right to use my		П		П	П	п
land as I wish	Ш	Ш	Ш	Ц	Ш	Ш
If I own a well, I have a right to clean						
drinking water	Ш	П	П	Ц	Ш	Ш
The public has a right to streams that are as						
clean as their natural condition	Ш	Ш	П	Ц	Ц	Ш
If I own property, I should be paid to						
prevent erosion	Ш	Ш	П	Ц	Ш	Ш
In public waters, I have a right to catch fish		П		П	П	П
that are safe to eat	Ш	Ш	П	Ц	Ш	Ш
Whether or not I own a well, I have a right						
to clean groundwater		П	П	Ц	Ш	П
Most people will voluntarily give up profits		П		п		
to protect water quality			Ш		Ш	
Most people will voluntarily give up profits		П		п	П	П
to protect natural habitats	Ш					
Federal regulations are a good way to					П	П
protect streams and groundwater	Ш	Ш	Ш	Ц	Ш	Ш
State regulations are a good way to protect	п	П		п	П	П
streams and groundwater						
Local regulations are a good way to protect		П	П			П
streams and groundwater	Ц			Ц		
The government should provide incentives	п	П		п	П	П
for water quality protection						Ш

#### Governance

How much do you agree or disagree with the following statements? (Check one box in each row.)

	Strongly				Strongly	No
Statement	Agree	Agree	Neutral	Disagree	disagree	opinion
Effective watershed management is best done at the grassroots level						
Free market forces adequately protect water resources						
A good way to protect water quality is by neighbors talking to neighbors						
A good way to protect water quality is through education						

#### **RECREATION**

1.	How often do you use the area around the Mississippi Riv (Check one box.)	,					
	☐ Monthly or more frequently		Less than once per year				
	☐ More than once per year		Never [skip next question]				
2.	Which of the following activities do you do in the area are (Check <u>all</u> that apply.)	ound th	ne Mississippi River-Winona Watershed?				
	☐ Walking, hiking, or skiing		Fishing				
	☐ Bird-watching, photography, wildflower		Camping				
	identification, or similar activities		Hunting				
	☐ Swimming, wading, or watercraft in streams		-				
ВА	<u>ACKGROUND</u>						
1.	Are you currently engaged in farming? (Check the descrip Yes, as an operator or spouse of an operator of la Yes, as an owner or spouse of an owner of land th Yes, as an employee of a farmer or on-farm service Yes, in another way (please specify	and tha nat we ce busi	t I/we own or rent rent to others to operate ness				
2.	How many acres of land do you own in the watershed?		acres 🗌 none				
3.	Do you reside in the Mississippi River-Winona Watershed no	? (see	map on the back of the cover letter) $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$				
4.	What is your age?						
5.	What is your gender?						
	ΤΗΔΝΚ Υ	)U					

Missisaigal wallers of water quality ident Survey Summacont Repolition with the survey summacont Repolition was the survey of the survey summacont Repolition was the survey of the surv

#### information distributed proportion of respondents APPENIA Language of the second of th

Shade the riverse were saidly significant differences (with the exceptions that (1) cells for "NA" and "No Opinion is of interest and (2) cells with both groups under 5% are not shaded). Bold cells indicate findings that may be of particular interest for planning or education efforts. Bold and italicized cells indicate a difference in terms of majority perceptions or practices between subgroups, where the sums of "Strongly Agree/Agree" or similar indicators of opinion (such as "Usually/Sometimes") result in a majority on one side of an issue for one group and majority on the other side of an issue for the other group.

		not engaged	any involvement
primary source of drinking water	full sample	in farming	in farming
well	25.7%	17.1%	68.8%
bottled	1.7%	1.5%	2.8%
municipal	72.2%	80.9%	27.7%
don't know	0.4%	0.4%	0.5%
other	0.1%	0.0%	0.3%
NA	0.1%	0.1%	0.0%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,025		

well cased and grouted	full sample	not engaged in farming	any involvement in farming
yes	67.4%	63.1%	73.7%
no	5.2%	4.6%	5.7%
don't know	26.8%	31.8%	20.2%
NA	0.6%	0.6%	0.3%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	707		

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		not engaged	any involvement
aquifer	full sample	in farming	in farming
Jordan or deeper	30.2%	23.3%	41.1%
Prairie du Chien	0.7%	0.7%	0.6%
St. Peter	0.9%	0.7%	0.8%
Multiple aquifers	2.1%	1.2%	1.1%
Galena	1.6%	1.2%	2.3%
don't know	62.9%	71.8%	51.7%
other	0.6%	0.7%	0.5%
Ironton/Franconia	0.5%	0.2%	1.1%
NA	0.6%	0.3%	0.8%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	683		

Mississippi Windpra Watershed Resident Survey
Summary of Results page 16
of respondents do not have
information as to the quality

Responses (unweighted total)

information as to the quality		not	any
of their drinking water.		engaged in	involvement
types of water treatment	full sample	farming	in farming
softener	64.5%	64.3%	61.8%
softener iron filter	6.4%	5.1%	12.3%
Reverse osmosis	3.8%	3.8%	4.6%
Sediment filter	7.3%	6.7%	11.8%
Chlorination	2.7%	2.7%	3.1%
Ultraviolet system	0.1%	0.0%	0.5%
Carbon Filter	14.0%	14.3%	10.8%
Don't know/Don't use treatment	20.5%	22.0%	15.2%

[Sum exceeds 100% since more than one treatment can be selected.]

		not	any
number of treatments	full sample	engaged in farming	involvement in farming
none	22.7%	23.4%	21.1%
1	58.7%	58.7%	58.4%
2	16.2%	15.7%	15.6%
3	2.2%	1.9%	4.4%
4	0.3%	0.3%	0.4%
5	0.0%	0.0%	0.1%
Total	100.0%	100.0%	100.0%
Responses (includes missing)	1,042		
chief source of information as to		not	any
the quality of your drinking		engaged in	involvement
water	full sample	farming	in farming
Lab tests	18.0%	11.9%	49.3%
municipal water report	48.8%	53.9%	20.6%
don't recall did get	3.9%	3.2%	5.9%
do not have	28.2%	29.9%	23.1%
other sources	1.1%	1.1%	1.2%
Total	100.0%	99.9%	100.0%
Responses (unweighted total)	1,004		
		not	any
rate overall quality of drinking		engaged in	involvement
water - taste	full sample	farming	in farming
excellent	36.2%	32.7%	51.6%
good	43.3%	46.2%	32.6%
fair	14.3%	14.8%	9.6%
poor	5.5%	5.6%	5.2%
no opinion	0.7%	0.6%	1.0%
total	100.0%	100.0%	100.0%

1,031

rate overall quality of drinking water - clarity	full sample	not engaged in farming	any involvement in farming
excellent	41.0%	38.9%	47.6%
good	46.7%	48.4%	41.5%
fair	8.7%	9.2%	4.9%
poor	2.0%	2.0%	3.1%
no opinion	1.6%	1.4%	2.9%
total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,007		
		not	any
rate overall quality of drinking water - safety prior to treatment	full sample	engaged in farming	involvement in farming
excellent	19.0%	15.3%	32.1%
good	36.6%	35.9%	37.2%
fair	11.9%	12.2%	12.7%
poor	5.5%	5.8%	4.2%
no opinion	27.0%	30.9%	13.9%
total	100.0%	100.0%	100.0%
Responses (unweighted total)	945		
, , ,			
		not	any
how would you rate overall	full comple	engaged in	involvement
stream quality? excellent	full sample	farming	in farming
	5.2% 47.9%	3.7% 46.1%	11.5% 54.2%
good fair	47.5%	45.5%	29.8%
poor	42.1%	43.3%	4.5%
total	100.0%	100.0%	100.0%
Responses (unweighted total)	993	100.070	100.070
Responses (unweighted total)	333		
If stream water quality were significantly worse I would use		not engaged in	any involvement
streams for recreation			IIIVOIVEIIIEIIL
	full sample	farming	in farming
less often	full sample 63.9%		in farming 49.3%
less often more often	·	farming	
	63.9%	farming <b>67.5</b> %	49.3%
more often	63.9%	<b>67.5%</b> 0.9%	<b>49.3%</b> 0.4%
more often the same	63.9% 0.9% 35.2%	farming 67.5% 0.9% 31.6%	<b>49.3%</b> 0.4% <b>50.2%</b>

If stream water quality were significantly better I would use streams for recreation	full sample	not engaged in farming	any involvement in farming
less often	1.8%	2.1%	1.2%
more often	37.4%	39.9%	22.7%
the same	60.9%	58.0%	76.1%
total	100.0%	100.0%	100.0%
Responses (unweighted total)	999		
To what extent do you consider the water quality of streams to be a problem	full sample	not engaged in farming	any involvement in farming
Never a problem	3.7%	3.8%	3.5%
Rarely a problem	21.6%	19.5%	31.3%
Occasionally a problem	54.0%	55.0%	50.5%
Frequently a problem	14.4%	16.1%	9.4%
Always a problem	6.3%	5.6%	5.2%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	978		
Single most common source of pollution	full sample	not engaged in farming	any involvement in farming
Runoff from streets, lawns, &			
urban lands	38.9%	35.0%	52.1%
Household wastewater (septic systems)	4.3%	4.5%	2.7%
Livestock operations	15.1%	16.5%	11.9%
Cropland operations	41.4%	44.0%	32.4%
Other	0.2%	0.1%	0.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	916	100.070	100.070

Mississippi Winding Water Resident Survey Summa system to the Survey for the

#### assertantial containing a least the second

Lieu destatable assettation de			
How dantiness letter commenter the light		not	any
the tarenest onderits.ligh	tea	engaged in	involvement
below. area in forest or grassland	full sample	farming	in farming
Usually beneficial	76.0%	76.3%	73.9%
Sometimes beneficial	13.1%	13.1%	13.4%
Sometimes harmful	2.1%	1.7%	4.4%
Usually harmful	0.8%	0.9%	0.1%
No opinion	8.1%	7.9%	8.2%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,006		
area in cropland			
Usually beneficial	6.4%	3.9%	13.9%
Sometimes beneficial	16.5%	14.0%	28.5%
Sometimes harmful	50.2%	54.5%	36.3%
Usually harmful	16.8%	17.5%	11.0%
No opinion	10.2%	10.1%	10.3%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,000		
area in pasture			
Usually beneficial	22.8%	17.3%	42.3%
Sometimes beneficial	30.8%	30.7%	33.8%
Sometimes harmful	31.1%	35.3%	13.6%
Usually harmful	5.1%	6.0%	2.6%
No opinion	10.2%	10.7%	7.7%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,007		
area in urban/suburban	,		
development			
Usually beneficial	2.8%	2.0%	1.7%
Sometimes beneficial	6.9%	6.7%	9.3%
Sometimes harmful	61.5%	63.8%	53.1%
Usually harmful	19.1%	17.5%	27.6%
No opinion	9.7%	10.0%	8.2%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,003		
application of manure/fertilizer	at customary		
rates	. =	4 = 0.1	
Usually beneficial	4.7%	1.5%	14.7%
Sometimes beneficial	8.6%	5.6%	21.8%
Sometimes harmful	50.6%	53.0%	46.6%
Usually harmful	27.9%	31.8%	9.0%
No opinion	8.2%	8.2%	7.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,004		

The sum of "usually..." and
Mississippi-Winona Watershed Resident Survey
Summasometimes has mile is
greater than a majority for
How the hose farmusesponde water quality?

and less than a majority for		not	any
application of gesticides at	full comple	engaged in	involvement
customary rates	full sample	farming	in farming
Usually beneficial	2.4%	0.4%	11.8%
Sometimes beneficial	4.4%	2.8%	11.1%
Sometimes harmful	43.4%	43.3%	46.4%
Usually harmful	42.4%	46.6%	21.3%
No opinion	7.5%	6.8%	9.5%
Total	100.0%	100.0%	100.0%
Responses (unweighted total) row crops within 50 feet of streams	1,004		
Usually beneficial	2.1%	0.9%	8.6%
Sometimes beneficial	5.3%	4.3%	11.1%
Sometimes beneficial	40.7%	38.6%	46.9%
Usually harmful	41.6%	46.0%	23.5%
No opinion	10.3%	10.2%	9.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,005	100.070	100.070
customary cropland practices	1,003		
Usually beneficial	5.2%	2.9%	15.2%
Sometimes beneficial	13.0%	8.6%	26.5%
Sometimes harmful	48.9%	52.1%	38.1%
Usually harmful	48.9% 15.4%	32.1% 17.4%	7.3%
No opinion	17.5%	18.9%	13.0%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	993	100.0%	100.0%
livestock confinement practices	995		
Usually beneficial	2.2%	0.4%	10.9%
Sometimes beneficial	6.7%	4.9%	12.1%
Sometimes harmful	46.7%	46.0%	49.3%
Usually harmful	36.2%	41.2%	17.0%
No opinion	8.2%	7.5%	10.7%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,004		
livestock pasturing			
Usually beneficial	7.7%	5.0%	16.4%
Sometimes beneficial	21.3%	18.0%	39.9%
Sometimes harmful	51.1%	54.8%	32.2%
Usually harmful	7.5%	8.8%	3.2%
No opinion	12.4%	13.4%	8.4%
Total	100.0%	100.0%	100.0%

Mississippi Winona Watershed Resident Survey Summary of Results page 21 greater than a majority for

the non-farm respondents How do these land uses affect water quality?

and less than a majority for residential & compondital tlawn		not	any involvement
m residential & confidencial tawn	full sample	engaged in farming	in farming
Usually beneficial	1.0%	0.8%	2.4%
Sometimes beneficial	5.6%	5.2%	6.2%
Sometimes harmful	55.4%	56.4%	51.8%
Usually harmful	30.6%	31.0%	29.5%
No opinion	7.5%	6.7%	10.1%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,000		
septic systems	,		
Usually beneficial	3.2%	1.1%	13.5%
Sometimes beneficial	7.1%	6.4%	10.7%
Sometimes harmful	63.6%	65.2%	57.3%
Usually harmful	10.1%	11.5%	3.2%
No opinion	15.9%	15.9%	15.3%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	997		
road runoff			
Usually beneficial	0.8%	0.3%	3.0%
Sometimes beneficial	1.2%	0.8%	3.5%
Sometimes harmful	55.8%	55.9%	49.6%
Usually harmful	33.4%	34.4%	35.1%
No opinion	8.7%	8.6%	8.8%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,005		
drainage of wetlands			
Usually beneficial	1.4%	0.6%	4.9%
Sometimes beneficial	13.2%	12.7%	17.7%
Sometimes harmful	28.3%	26.3%	35.5%
Usually harmful	42.0%	44.9%	27.5%
No opinion	15.1%	15.6%	14.3%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	994		
drainage tile in farm fields that a	re not		
wetlands	6.001	4 = 0.1	10.00
Usually beneficial	6.3%	4.5%	12.9%
Sometimes beneficial	23.6%	22.7%	31.8%
Sometimes harmful	29.8%	30.4%	24.9%
Usually harmful	18.7%	20.0%	11.4%
No opinion	21.6%	22.4%	19.0%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	998		

How do these land uses affect water quality?

How do these land uses affect wa	ter quality?		
		not	any
drainage tile outlets to		engaged in	involvement in
streams or sinkholes	full sample	farming	farming
Usually beneficial	1.4%	1.0%	3.9%
Sometimes beneficial	7.9%	6.8%	8.0%
Sometimes harmful	33.6%	31.6%	43.9%
Usually harmful	39.9%	41.8%	33.3%
No opinion	17.2%	18.8%	10.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,001		
farm runoff to streams or			
sinkholes			
Usually beneficial	0.8%	0.6%	1.3%
Sometimes beneficial	1.8%	1.3%	5.1%
Sometimes harmful	33.8%	29.9%	48.3%
Usually harmful	53.5%	58.3%	34.7%
No opinion	10.1%	9.9%	10.5%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,006		
urban runoff to streams or sink	holes		
Usually beneficial	0.7%	0.6%	0.7%
Sometimes beneficial	1.1%	0.8%	2.7%
Sometimes harmful	33.3%	31.6%	41.6%
Usually harmful	56.6%	58.8%	47.0%
No opinion	8.3%	8.2%	7.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1,005		

### Do you know of or suspect that any of the following conditions ... affect groundwater quality in the Mississippi River-Winona Watershed?

		not	any
High levels of bacteria -		engaged in	involvement in
groundwater	full sample	farming	farming
Certain it is <u>NOT</u> a problem	0.9%	0.8%	1.7%
Suspect it is NOT a problem	9.9%	8.1%	18.4%
Don't know	47.8%	50.3%	39.3%
Suspect it <u>IS</u> a problem	31.9%	30.5%	34.4%
Certain it IS a problem	9.5%	10.3%	6.2%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	989		

### Do you know of or suspect that any of the following conditions ... affect groundwater quality in the Mississippi River-Winona Watershed?

		not	201/
High levels of nitrates -		not engaged in	any involvement in
groundwater	full sample	farming	farming
Certain it is NOT a problem	0.6%	0.3%	2.0%
Suspect it is NOT a problem	6.5%	4.6%	17.4%
Don't know	34.8%	37.4%	24.6%
Suspect it <u>IS</u> a problem	37.1%	36.0%	39.1%
Certain it IS a problem	21.0%	21.7%	17.0%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	989		
		not	any
High levels of heavy metals -	6.11	engaged in	involvement in
groundwater	full sample	farming	farming
Certain it is <u>NOT</u> a problem	1.0%	0.8%	2.2%
Suspect it is <u>NOT</u> a_problem	7.1%	4.9%	17.9%
Don't know	50.7%	52.1%	47.0%
Suspect it <u>IS</u> a problem	24.8%	24.7%	20.5%
Certain it IS a problem	16.5%	17.5%	12.4%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	987		
High loyals of minarals		not	any
High levels of minerals - groundwater	full sample	engaged in	involvement in
groundwater	full sample		•
groundwater  Certain it is NOT a problem	-	engaged in farming	involvement in farming
groundwater	1.2%	engaged in farming 1.0%	involvement in farming 2.2%
groundwater  Certain it is <u>NOT</u> a problem  Suspect it is <u>NOT</u> a problem  Don't know	1.2% 17.8%	engaged in farming 1.0% 17.0%	involvement in farming 2.2% 21.8%
groundwater  Certain it is <u>NOT</u> a problem  Suspect it is <u>NOT</u> a problem	1.2% 17.8% 48.7%	engaged in farming  1.0%  17.0%  50.4%	involvement in farming 2.2% 21.8% 46.2%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem	1.2% 17.8% 48.7% 23.7%	engaged in farming  1.0%  17.0%  50.4%  22.0%	involvement in farming  2.2%  21.8%  46.2%  25.0%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem	1.2% 17.8% 48.7% 23.7% 8.6%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total	1.2% 17.8% 48.7% 23.7% 8.6%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides -	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)	1.2% 17.8% 48.7% 23.7% 8.6%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides -	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%  not engaged in	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides - groundwater  Certain it is NOT a problem  Suspect it is NOT a problem	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%  not engaged in farming	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%  any involvement in farming
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides - groundwater  Certain it is NOT a problem	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985 full sample 0.7%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%  not engaged in farming  0.3%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%  any involvement in farming  2.8%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides - groundwater  Certain it is NOT a problem  Suspect it is NOT a problem	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985 full sample 0.7% 6.3%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%  not engaged in farming  0.3%  4.8%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%  any involvement in farming  2.8%  14.7%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides - groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985 full sample 0.7% 6.3% 34.0%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%  not engaged in farming  0.3%  4.8%  34.5%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%  any involvement in farming  2.8%  14.7%  33.0%
groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem  Certain it IS a problem  Total  Responses (unweighted total)  High levels of pesticides - groundwater  Certain it is NOT a problem  Suspect it is NOT a problem  Don't know  Suspect it IS a problem	1.2% 17.8% 48.7% 23.7% 8.6% 100.0% 985 full sample 0.7% 6.3% 34.0% 38.4%	engaged in farming  1.0%  17.0%  50.4%  22.0%  9.6%  100.0%  not engaged in farming  0.3%  4.8%  34.5%  40.1%	involvement in farming  2.2%  21.8%  46.2%  25.0%  4.8%  100.0%  any involvement in farming  2.8%  14.7%  33.0%  31.9%

### Do you know of or suspect that any of the following conditions ... affect groundwater quality in the Mississippi River-Winona Watershed?

High levels of radioactivity-		not engaged in	any involvement in
groundwater	full sample	farming	farming
Certain it is NOT a problem	1.8%	1.4%	4.1%
Suspect it is <u>NOT</u> a_problem	11.5%	11.2%	13.5%
Don't know	58.9%	60.4%	57.4%
Suspect it <u>IS</u> a problem	10.8%	10.7%	7.9%
Certain it IS a problem	17.0%	16.4%	17.1%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	986		

### Do you know of or suspect that any of the following conditions ... affect stream water quality in the Mississippi River-Winona Watershed?

water quality in the Mississippi Riv	er-Winona Wat	tershed?	
High levels of bacteria - stream water	full sample	not engaged in farming	any involvement in farming
Certain it is <u>NOT</u> a problem	0.4%	0.2%	1.1%
Suspect it is <u>NOT</u> a problem	7.1%	5.4%	13.8%
Don't know	46.8%	48.2%	42.3%
Suspect it <u>IS</u> a problem	36.7%	36.1%	36.1%
Certain it IS a problem	9.0%	10.0%	6.7%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	988		
High levels of nitrates - stream water	full sample	not engaged in farming	any involvement in farming
Certain it is <u>NOT</u> a problem	0.4%	0.2%	1.3%
Suspect it is NOT a problem	4.3%	3.2%	8.6%
Don't know	36.7%	37.0%	37.4%
Suspect it <u>IS</u> a problem	40.0%	39.7%	39.7%
Certain it IS a problem	18.7%	19.9%	12.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	987		
High levels of heavy metals - stream water	full sample	not engaged in farming	any involvement in farming
Certain it is <u>NOT</u> a problem	0.8%	0.6%	1.7%
Suspect it is NOT a problem	7.0%	6.4%	9.3%
Don't know	55.0%	54.8%	60.8%
Suspect it <u>IS</u> a problem	22.9%	23.2%	17.6%
Certain it IS a problem	14.2%	15.0%	10.6%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	983		

or sometimes harmful,

Do you know of or property that any of the following conditions ... affect stream water quality in the Mississippi River-Winona Watershed?

don't know whether the			
level of salts in streams is High levels of minerals - stream	а	not	any
		engaged in	involvement in
water .	full sample	farming	farming
Certain it is <u>NOT</u> a problem	1.1%	0.8%	2.5%
Suspect it is <u>NOT</u> a problem	17.1%	16.7%	19.6%
Don't know	55.5%	56.9%	56.6%
Suspect it <u>IS</u> a problem	20.6%	18.9%	19.0%
Certain it IS a problem	5.8%	6.8%	2.3%
Total	100.0%	100.0%	100.0%
		not	any
High levels of pesticides - stream		engaged in	involvement in
water	full sample	farming	farming
Certain it is <u>NOT</u> a problem	0.4%	0.2%	1.4%
Suspect it is <u>NOT</u> a_problem	5.3%	4.4%	11.1%
Don't know	31.7%	31.0%	35.8%
Suspect it <u>IS</u> a problem	42.7%	44.7%	33.9%
Certain it IS a problem	19.9%	19.7%	17.8%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	983		
		not	any
High levels of sediment - stream		engaged in	involvement in
water	full sample	farming	farming
Certain it is NOT a problem	0.3%	0.2%	1.0%
Suspect it is <u>NOT</u> a_problem	4.6%	4.4%	6.9%
Don't know	35.5%	34.9%	37.8%
Suspect it <u>IS</u> a problem	39.4%	39.4%	39.5%
Certain it IS a problem	20.1%	21.0%	14.7%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	985		
		not	any
High levels of salts - stream		engaged in	involvement in
water	full sample	farming	farming
Certain it is NOT a problem	0.5%	0.3%	1.9%
Suspect it is NOT a problem	5.3%	4.8%	8.1%
Don't know	47.8%	48.2%	49.1%
	47.070		
Suspect it IS a problem	35.2%	34.6%	33.5%
Suspect it <u>IS</u> a problem Certain it IS a problem		34.6% 12.0%	33.5% 7.5%
_ · ·	35.2%		
Certain it IS a problem	35.2% 11.2%	12.0%	7.5%

for all of the questions about the importance of water issues is the fact that

	waterissu	es is the fact that		
How important are each of the following water issues to you?			all of the i	ssues show
		engaged in	any consistent involvement in	levels of
Clean rivers and streams	full sample	farming	importanc	e for both
Extremely important	48.5%	50.0%	cat <u>re</u> gories	of respondents.
Very important	43.3%	43.5%	W <b>h</b> il <b>e</b> ⁄⁄the	re are a few
Somewhat important	6.9%	5.8%	st <u>a</u> ţi <b>şt</b> icall	y significant
Not important	0.1%	0.1%	dif <b>ferø</b> nce	s, none result in
No opinion	1.2%	0.6%	dif <b>žes%</b> nce	s in majority
Total	100.0%	100.0%	<b>apinin</b> .	
Responses (unweighted total)	998			
		not	any	
Flow quantity of springs	full sample	engaged in farming	involvement in farming	
Extremely important	37.7%	38.1%	36.3%	
Very important	38.4%	38.3%	35.2%	
Somewhat important	18.3%	18.0%	22.4%	
Not important	1.0%	1.1%	1.2%	
No opinion	4.7%	4.5%	4.9%	
Total	100.0%	100.0%	100.0%	
Responses (unweighted total)	998	100.076	100.0%	
Responses (unweighted total)	336	not	any	
		engaged in	involvement in	
Water quality of springs	full sample	farming	farming	
Extremely important	42.2%	42.2%	40.3%	
Very important	41.6%	41.5%	41.1%	
Somewhat important	12.2%	12.5%	14.1%	
Not important	0.6%	0.6%	1.0%	
No opinion	3.4%	3.2%	3.6%	
Total	100.0%	100.0%	100.0%	
Responses (unweighted total)	997			
		not engaged in	any involvement in	
Habitat around springs	full sample	farming	farming	
Extremely important	39.5%	40.0%	34.3%	
Very important	40.7%	41.4%	36.0%	
Somewhat important	13.2%	12.4%	20.7%	
Not important	2.6%	2.3%	4.6%	
No opinion	4.0%	3.8%	4.4%	
Total	100.0%	100.0%	100.0%	
Responses (unweighted total)	997			
, , , , , , , , , , , , , , , , , , , ,				

How important are each of the following water issues to you?

		not	201/
Clean well water for existing		not engaged in	any involvement in
homes	full sample	farming	farming
Extremely important	54.3%	54.1%	56.2%
Very important	38.2%	38.4%	36.5%
Somewhat important	4.8%	5.2%	4.8%
Not important	0.7%	0.8%	0.1%
No opinion	1.9%	1.5%	2.4%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1007		
		not	any
Class well water for livestari.	full samuels	engaged in	involvement in
Clean well water for livestock	full sample	farming	farming
Extremely important	30.9%	28.0%	43.0%
Very important	49.6%	51.0%	42.6%
Somewhat important	16.1%	17.7%	11.4%
Not important	0.9%	0.9%	0.8%
No opinion	2.5%	2.3%	2.2%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	1005		
		not engaged in	any involvement in
Preserving wetlands	full sample	not engaged in farming	any involvement in farming
Preserving wetlands Extremely important	full sample 45.8%	engaged in	involvement in
	-	engaged in farming	involvement in farming
Extremely important	45.8%	engaged in farming 49.8%	involvement in farming 31.1%
Extremely important Very important	45.8% 31.8%	engaged in farming 49.8% 29.9%	involvement in farming 31.1% 34.5%
Extremely important Very important Somewhat important	45.8% 31.8% 17.6%	engaged in farming 49.8% 29.9% 16.8%	involvement in farming 31.1% 34.5% 24.3%
Extremely important Very important Somewhat important Not important	45.8% 31.8% 17.6% 2.4%	engaged in farming  49.8%  29.9%  16.8%  1.9%	involvement in farming 31.1% 34.5% 24.3% 5.6%
Extremely important Very important Somewhat important Not important No opinion	45.8% 31.8% 17.6% 2.4%	engaged in farming  49.8%  29.9%  16.8%  1.9%  1.7%	involvement in farming  31.1%  34.5%  24.3%  5.6%  4.5%
Extremely important Very important Somewhat important Not important No opinion Total	45.8% 31.8% 17.6% 2.4% 2.4% 100.0%	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%	involvement in farming 31.1% 34.5% 24.3% 5.6% 4.5% 100.0%
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in	involvement in farming  31.1%  34.5%  24.3%  5.6%  4.5%  100.0%  any involvement in
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming	involvement in farming  31.1% 34.5% 24.3% 5.6% 4.5% 100.0%  any involvement in farming
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages Extremely important	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003  full sample 41.7%	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming 42.4%	involvement in farming  31.1% 34.5% 24.3% 5.6% 4.5% 100.0%  any involvement in farming 39.9%
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages Extremely important Very important	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming	involvement in farming  31.1% 34.5% 24.3% 5.6% 4.5% 100.0%  any involvement in farming
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages Extremely important	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003  full sample 41.7%	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming 42.4%	involvement in farming  31.1% 34.5% 24.3% 5.6% 4.5% 100.0%  any involvement in farming 39.9%
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages  Extremely important Very important Somewhat important Not important	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003  full sample 41.7% 39.2% 15.9% 1.7%	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming  42.4% 38.7% 16.2% 1.8%	involvement in farming  31.1% 34.5% 24.3% 5.6% 4.5% 100.0%  any involvement in farming 39.9% 38.4%
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages  Extremely important Very important Somewhat important	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003  full sample 41.7% 39.2% 15.9%	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming  42.4% 38.7% 16.2%	involvement in farming  31.1%  34.5%  24.3%  5.6%  4.5%  100.0%  any involvement in farming  39.9%  38.4%  17.4%
Extremely important Very important Somewhat important Not important No opinion Total Responses (unweighted total)  Minimizing flood damages  Extremely important Very important Somewhat important Not important	45.8% 31.8% 17.6% 2.4% 2.4% 100.0% 1003  full sample 41.7% 39.2% 15.9% 1.7%	engaged in farming  49.8% 29.9% 16.8% 1.9% 1.7% 100.0%  not engaged in farming  42.4% 38.7% 16.2% 1.8%	involvement in farming  31.1%  34.5%  24.3%  5.6%  4.5%  100.0%  any involvement in farming  39.9%  38.4%  17.4%  1.3%

How important are each of the following water issues to you?

	llowing water iss		
		not engaged in	any involvement in
Habitat for fish & ducks	full sample	farming	farming
Extremely important	42.3%	45.7%	32.1%
Very important	35.0%	34.6%	34.1%
Somewhat important	18.2%	16.2%	25.3%
Not important	1.8%	1.3%	4.7%
No opinion	2.7%	2.2%	3.8%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	999	100.070	100.070
nesponses (anneignes total)	333	not	any
Accommodating water using		engaged in	involvement in
industries	full sample	farming	farming
Extremely important	9.6%	9.5%	11.4%
Very important	23.4%	20.7%	25.4%
Somewhat important	41.4%	43.6%	37.4%
Not important	20.0%	20.8%	19.9%
No opinion	5.6%	5.5%	5.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	998		
,			
		not	any
Accommodating residential	full cample	engaged in	involvement in
Accommodating residential growth	full sample	engaged in farming	involvement in farming
Accommodating residential growth  Extremely important	9.6%	engaged in farming 10.1%	involvement in farming 7.8%
Accommodating residential growth  Extremely important  Very important	9.6% 23.0%	engaged in farming 10.1% 21.8%	involvement in farming 7.8% 25.3%
Accommodating residential growth  Extremely important  Very important  Somewhat important	9.6% 23.0% 45.9%	engaged in farming 10.1% 21.8% 47.0%	involvement in farming 7.8% 25.3% 40.9%
Accommodating residential growth  Extremely important Very important Somewhat important Not important	9.6% 23.0% 45.9% 17.0%	engaged in farming 10.1% 21.8% 47.0% 16.7%	involvement in farming 7.8% 25.3% 40.9% 21.2%
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion	9.6% 23.0% 45.9% 17.0% 4.5%	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9%
Accommodating residential growth  Extremely important  Very important  Somewhat important  Not important  No opinion  Total	9.6% 23.0% 45.9% 17.0% 4.5%	engaged in farming 10.1% 21.8% 47.0% 16.7%	involvement in farming 7.8% 25.3% 40.9% 21.2%
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion	9.6% 23.0% 45.9% 17.0% 4.5%	engaged in farming  10.1%  21.8%  47.0%  16.7%  4.3%  100.0%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0%
Accommodating residential growth  Extremely important  Very important  Somewhat important  Not important  No opinion  Total	9.6% 23.0% 45.9% 17.0% 4.5%	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3% 100.0%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0%
Accommodating residential growth  Extremely important  Very important  Somewhat important  Not important  No opinion  Total	9.6% 23.0% 45.9% 17.0% 4.5%	engaged in farming  10.1%  21.8%  47.0%  16.7%  4.3%  100.0%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0%
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion  Total Responses (unweighted total)	9.6% 23.0% 45.9% 17.0% 4.5% 100.0% 996	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3% 100.0%  not engaged in	involvement in farming  7.8%  25.3%  40.9%  21.2%  4.9%  100.0%  any involvement in
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion  Total Responses (unweighted total)  Irrigation for lawns	9.6% 23.0% 45.9% 17.0% 4.5% 100.0% 996	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3% 100.0%  not engaged in farming	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0%  any involvement in farming
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion  Total Responses (unweighted total)  Irrigation for lawns  Extremely important	9.6% 23.0% 45.9% 17.0% 4.5% 100.0% 996 full sample 6.1%	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3% 100.0%  not engaged in farming 6.0%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0% any involvement in farming 6.2%
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion  Total Responses (unweighted total)  Irrigation for lawns  Extremely important Very important	9.6% 23.0% 45.9% 17.0% 4.5% 100.0% 996 full sample 6.1% 10.5%	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3% 100.0%  not engaged in farming 6.0% 10.0%	involvement in farming  7.8%  25.3%  40.9%  21.2%  4.9%  100.0%  any involvement in farming  6.2%  9.0%
Accommodating residential growth  Extremely important  Very important  Somewhat important  Not important  No opinion  Total  Responses (unweighted total)  Irrigation for lawns  Extremely important  Very important  Somewhat important	9.6% 23.0% 45.9% 17.0% 4.5% 100.0% 996  full sample 6.1% 10.5% 36.0%	engaged in farming  10.1%  21.8%  47.0%  16.7%  4.3%  100.0%  not engaged in farming  6.0%  10.0%  37.6%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0% any involvement in farming 6.2% 9.0% 26.5%
Accommodating residential growth  Extremely important Very important Somewhat important Not important No opinion  Total Responses (unweighted total)  Irrigation for lawns  Extremely important Very important Somewhat important Not important Not important	9.6% 23.0% 45.9% 17.0% 4.5% 100.0% 996  full sample 6.1% 10.5% 36.0% 43.3%	engaged in farming  10.1% 21.8% 47.0% 16.7% 4.3% 100.0%  not engaged in farming 6.0% 10.0% 37.6% 43.0%	involvement in farming 7.8% 25.3% 40.9% 21.2% 4.9% 100.0%  any involvement in farming 6.2% 9.0% 26.5% 53.6%

How important are each of the following water issues to you?

		not engaged in	any involvement in
Stream habitat	full sample	farming	farming
Extremely important	44.3%	46.0%	37.0%
Very important	37.6%	38.5%	31.4%
Somewhat important	13.7%	11.8%	24.8%
Not important	1.6%	1.4%	2.8%
No opinion	2.8%	2.3%	4.0%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	998		
		not	
		not	any
		engaged in	involvement in
Avoiding threats to shallow wells	full sample		•
Avoiding threats to shallow wells  Extremely important	full sample 48.4%	engaged in	involvement in
	•	engaged in farming	involvement in farming
Extremely important	48.4%	engaged in farming 50.7%	involvement in farming 41.0%
Extremely important Very important	48.4% 33.3%	engaged in farming 50.7% 31.6%	involvement in farming 41.0% 36.8%
Extremely important Very important Somewhat important	48.4% 33.3% 13.1%	engaged in farming 50.7% 31.6% 12.6%	involvement in farming 41.0% 36.8% 17.3%
Extremely important Very important Somewhat important Not important	48.4% 33.3% 13.1% 1.4%	engaged in farming 50.7% 31.6% 12.6% 1.5%	involvement in farming  41.0%  36.8%  17.3%  1.2%

### Which ... best describes your level of awareness of the following water quality issues?

Quality of drinking water from wells	full sample	not engaged in farming	any involvement in farming
Very informed	9.2%	8.2%	13.3%
Somewhat informed	41.9%	38.1%	59.3%
Somewhat uninformed	27.5%	28.7%	18.7%
Very uninformed	21.4%	25.0%	8.6%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	990		
Trends in nitrates in area wells	full sample	not engaged in farming	any involvement in farming
Trends in nitrates in area wells  Very informed	full sample 7.3%		•
	· · · · · · · · · · · · · · · · · · ·	engaged in farming	involvement in farming
Very informed	7.3%	engaged in farming 6.5%	involvement in farming 10.9%
Very informed Somewhat informed	7.3% 32.1%	engaged in farming 6.5% 27.8%	involvement in farming 10.9% 50.2%
Very informed Somewhat informed Somewhat uninformed	7.3% 32.1% 32.2%	engaged in farming 6.5% 27.8% 32.8%	involvement in farming 10.9% 50.2% 27.6%

Which ... best describes your level of awareness of the following water quality issues?

issues:			
		not	any
Tuesda in markinidas in ausa walla	full same als	engaged in	involvement in
Trends in pesticides in area wells	full sample	farming	farming
Very informed	6.4%	5.5%	9.7%
Somewhat informed	27.5%	23.6%	42.9%
Somewhat uninformed	36.0%	36.7%	32.0%
Very uninformed	30.1%	34.2%	15.5%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	987		
		not	any
Trends in sediment in area		engaged in	involvement in
streams	full sample	farming	farming
Very informed	6.6%	6.4%	8.5%
Somewhat informed	32.5%	28.8%	47.0%
Somewhat uninformed	34.3%	34.7%	28.9%
Very uninformed	26.7%	30.1%	15.5%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	988		
		not	any
Trends in bacteria in area		engaged in	involvement in
streams	full sample	engaged in farming	involvement in farming
streams Very informed	3.1%	engaged in farming 2.9%	involvement in farming 2.5%
streams	·	engaged in farming	involvement in farming
streams Very informed	3.1%	engaged in farming 2.9%	involvement in farming 2.5%
Somewhat informed	3.1% 25.2%	engaged in farming 2.9% 22.8%	involvement in farming 2.5% 36.0%
Somewhat uninformed Somewhat uninformed	3.1% 25.2% 37.2%	engaged in farming 2.9% 22.8% 36.2%	involvement in farming 2.5% 36.0% 38.5%
Somewhat informed Somewhat uninformed Very uninformed	3.1% 25.2% 37.2% 34.5%	engaged in farming 2.9% 22.8% 36.2% 38.1%	involvement in farming  2.5%  36.0%  38.5%  23.1%
Somewhat informed Somewhat uninformed Very uninformed Total	3.1% 25.2% 37.2% 34.5% 100.0%	engaged in farming 2.9% 22.8% 36.2% 38.1%	involvement in farming  2.5%  36.0%  38.5%  23.1%
Somewhat informed Somewhat uninformed Very uninformed Total	3.1% 25.2% 37.2% 34.5% 100.0% 976	engaged in farming 2.9% 22.8% 36.2% 38.1% 100.0%  not engaged in	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in
Streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)	3.1% 25.2% 37.2% 34.5% 100.0%	engaged in farming  2.9%  22.8%  36.2%  38.1%  100.0%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in farming
streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Trends in nitrates in area	3.1% 25.2% 37.2% 34.5% 100.0% 976 full sample 3.6%	engaged in farming 2.9% 22.8% 36.2% 38.1% 100.0%  not engaged in farming 3.1%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in
Streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Trends in nitrates in area streams	3.1% 25.2% 37.2% 34.5% 100.0% 976	engaged in farming  2.9%  22.8%  36.2%  38.1%  100.0%  not engaged in farming  3.1%  26.1%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in farming
Streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Trends in nitrates in area streams  Very informed	3.1% 25.2% 37.2% 34.5% 100.0% 976 full sample 3.6%	engaged in farming 2.9% 22.8% 36.2% 38.1% 100.0%  not engaged in farming 3.1%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in farming  3.9%
Streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Trends in nitrates in area streams  Very informed  Somewhat informed	3.1% 25.2% 37.2% 34.5% 100.0% 976 full sample 3.6% 28.5%	engaged in farming  2.9%  22.8%  36.2%  38.1%  100.0%  not engaged in farming  3.1%  26.1%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in farming  3.9%  39.9%
Streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Trends in nitrates in area streams  Very informed  Somewhat informed  Somewhat uninformed	3.1% 25.2% 37.2% 34.5% 100.0% 976 full sample 3.6% 28.5% 36.1%	engaged in farming 2.9% 22.8% 36.2% 38.1% 100.0%  not engaged in farming 3.1% 26.1% 35.9%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in farming  3.9%  39.9%  33.7%
Streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Trends in nitrates in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed	3.1% 25.2% 37.2% 34.5% 100.0% 976 full sample 3.6% 28.5% 36.1% 31.9%	engaged in farming  2.9%  22.8%  36.2%  38.1%  100.0%  not engaged in farming  3.1%  26.1%  35.9%  34.8%	involvement in farming  2.5%  36.0%  38.5%  23.1%  100.0%  any involvement in farming  3.9%  39.9%  33.7%  22.4%

Which ... best describes your level of awareness of the following water quality issues?

issues:			
		not	any
Impacts of nitrates on fish in		engaged in	involvement in
area streams	full sample	farming	farming
Very informed	4.9%	4.6%	5.2%
Somewhat informed	30.7%	29.8%	33.5%
Somewhat uninformed	33.0%	30.6%	40.5%
Very uninformed	31.3%	35.0%	20.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	977		
		not	any
Impact of sediment on fish in		engaged in	involvement in
area streams	full sample	farming	farming
Very informed	6.4%	6.7%	5.9%
Somewhat informed	30.7%	28.3%	36.8%
Somewhat uninformed	33.5%	32.0%	38.2%
Very uninformed	29.4%	33.0%	19.1%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	969		
		not	any
General awareness of water		engaged in	involvement in
quality issues	full sample	farming	farming
Very informed	7.0%	6.0%	11.9%
Somewhat informed	43.5%	42.2%	53.2%
Somewhat uninformed	29.1%	28.3%	25.0%
Very uninformed	20.4%	23.5%	9.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	975		
		not	any
		engaged in	involvement in
Awareness of TMDL process	full sample	farming	farming
Very informed	3.8%	3.1%	6.1%
Somewhat informed	18.1%	17.7%	21.6%
Somewhat uninformed	39.0%	36.0%	43.7%
Very uninformed	39.1%	43.3%	28.5%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	978		
responses (unweighted total)	378		

Which ... best describes your level of awareness of the following water quality issues?

issues:			
Aware of impairment status of		not engaged in	any involvement in
area streams	full sample	farming	farming
Very informed	3.4%	3.1%	5.8%
Somewhat informed	20.6%	20.2%	22.8%
Somewhat uninformed	36.6%	34.5%	39.4%
Very uninformed	39.4%	42.3%	31.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	976		
		not	any
Aware of impairment for		engaged in	involvement in
turbidity in area streams	full sample	farming	farming
Very informed	3.9%	3.6%	5.5%
Somewhat informed	23.7%	21.4%	35.7%
Somewhat uninformed	38.5%	37.2%	36.1%
Very uninformed	34.0%	37.7%	22.7%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	978		
	3.0		
	370	not	any
Aware of impairment for		engaged in	involvement in
Aware of impairment for bacteria in area streams	full sample	engaged in farming	involvement in farming
Aware of impairment for bacteria in area streams  Very informed	full sample	engaged in farming 2.4%	involvement in farming 4.3%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed	full sample 2.7% 20.1%	engaged in farming 2.4% 17.9%	involvement in farming 4.3% 29.0%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed	full sample 2.7% 20.1% 37.7%	engaged in farming 2.4% 17.9% 35.2%	involvement in farming 4.3% 29.0% 43.4%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed	full sample 2.7% 20.1%	engaged in farming 2.4% 17.9%	involvement in farming 4.3% 29.0%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed	full sample 2.7% 20.1% 37.7% 39.5%	engaged in farming 2.4% 17.9% 35.2%	involvement in farming 4.3% 29.0% 43.4%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed	full sample 2.7% 20.1% 37.7% 39.5%	engaged in farming  2.4%  17.9%  35.2%  44.5%	involvement in farming  4.3%  29.0%  43.4%  23.4%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)	full sample 2.7% 20.1% 37.7% 39.5%	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates in area streams	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in farming	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in farming
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates in area streams  Very informed	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates in area streams	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979  full sample 3.2% 22.5%	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in farming	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in farming
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates in area streams  Very informed  Somewhat informed  Somewhat uninformed	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979  full sample 3.2%	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in farming  2.9%	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in farming  4.7%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates in area streams  Very informed  Somewhat informed	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979  full sample 3.2% 22.5%	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in farming  2.9%  20.2%	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in farming  4.7%  34.2%
Aware of impairment for bacteria in area streams  Very informed  Somewhat informed  Somewhat uninformed  Very uninformed  Total  Responses (unweighted total)  Aware of impairment for nitrates in area streams  Very informed  Somewhat informed  Somewhat uninformed	full sample 2.7% 20.1% 37.7% 39.5% 100.0% 979  full sample 3.2% 22.5% 37.6%	engaged in farming  2.4%  17.9%  35.2%  44.5%  100.0%  not engaged in farming  2.9%  20.2%  35.7%	involvement in farming  4.3%  29.0%  43.4%  23.4%  100.0%  any involvement in farming  4.7%  34.2%  40.3%

Mississip**poMinderat MeaSerist RedWarse**drent Survey Summary Conservation Baserist Section 18 Survey very significant or major source of information,

## How muchide yong length end her following sources for information about local water quality issues? not engaged in farming rely

not engaged in farming re	ıy		
on local radio or television	١.	not	any
State Agency Staff	full sample	engaged in farming	involvement in farming
Very significant source	8.6%	9.6%	3.1%
Major source	23.6%	22.6%	31.0%
Minor source	30.2%	27.8%	38.4%
Not a source	37.6%	40.0%	27.4%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	941	100.0%	100.0%
responses (unweighted total)	941	not	2014
		engaged in	any involvement in
County extension service staff	full sample	farming	farming
Very significant source	10.1%	9.8%	11.0%
Major source	27.6%	25.8%	38.6%
Minor source	30.9%	30.3%	30.6%
Not a source	31.3%	34.1%	19.8%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	946		
responses (anweighted total)	5.0		
Responses (unweighted total)	3.0	not	any
Soil & water conservation district	3.0	not engaged in	involvement in
	full sample		•
Soil & water conservation district		engaged in	involvement in
Soil & water conservation district staff	full sample	engaged in farming	involvement in farming
Soil & water conservation district staff  Very significant source	full sample	engaged in farming	involvement in farming  16.1%
Soil & water conservation district staff  Very significant source  Major source	full sample 11.8% 34.9%	engaged in farming 10.8% 33.6%	involvement in farming 16.1% 40.0%
Soil & water conservation district staff  Very significant source  Major source  Minor source	full sample 11.8% 34.9% 25.1%	engaged in farming  10.8%  33.6%  24.9%	involvement in farming  16.1%  40.0%  26.8%
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source	full sample 11.8% 34.9% 25.1% 28.2%	engaged in farming  10.8%  33.6%  24.9%  30.6%	involvement in farming  16.1%  40.0%  26.8%  17.1%
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total	full sample 11.8% 34.9% 25.1% 28.2%	engaged in farming  10.8%  33.6%  24.9%  30.6%	involvement in farming  16.1%  40.0%  26.8%  17.1%
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total  Responses (unweighted total)	full sample 11.8% 34.9% 25.1% 28.2% 100.0% 948	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%	involvement in farming  16.1% 40.0% 26.8% 17.1% 100.0%
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total	full sample 11.8% 34.9% 25.1% 28.2%	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%	involvement in farming  16.1% 40.0% 26.8% 17.1% 100.0%
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total  Responses (unweighted total)	full sample 11.8% 34.9% 25.1% 28.2% 100.0% 948	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%  not engaged in	involvement in farming  16.1%  40.0%  26.8%  17.1%  100.0%  any involvement in
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total  Responses (unweighted total)  Local radio or television	full sample 11.8% 34.9% 25.1% 28.2% 100.0% 948	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%  not engaged in farming	involvement in farming  16.1% 40.0% 26.8% 17.1% 100.0%  any involvement in farming
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total  Responses (unweighted total)  Local radio or television  Very significant source	full sample 11.8% 34.9% 25.1% 28.2% 100.0% 948  full sample 13.3%	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%  not engaged in farming  13.4%	involvement in farming  16.1% 40.0% 26.8% 17.1% 100.0%  any involvement in farming 13.0%
Soil & water conservation district staff  Very significant source  Major source  Minor source  Not a source  Total  Responses (unweighted total)  Local radio or television  Very significant source  Major source	full sample 11.8% 34.9% 25.1% 28.2% 100.0% 948  full sample 13.3% 35.6%	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%  not engaged in farming  13.4%  38.0%	involvement in farming  16.1% 40.0% 26.8% 17.1% 100.0%  any involvement in farming 13.0% 25.6%
Soil & water conservation district staff  Very significant source Major source Minor source Not a source  Total Responses (unweighted total)  Local radio or television  Very significant source Major source Minor source	full sample 11.8% 34.9% 25.1% 28.2% 100.0% 948  full sample 13.3% 35.6% 36.0%	engaged in farming  10.8%  33.6%  24.9%  30.6%  100.0%  not engaged in farming  13.4%  38.0%  34.6%	involvement in farming  16.1% 40.0% 26.8% 17.1% 100.0%  any involvement in farming 13.0% 25.6% 40.2%

How much do you rely on the following sources for information about local water quality issues?

water quality issues:			
		not	any
Newspaper or weekly to monthly magazines	full sample	engaged in farming	involvement in
		12.7%	farming
Very significant source	12.7%		13.4%
Major source	37.7%	40.2%	28.3%
Minor source	35.8%	33.9%	39.0%
Not a source	13.8%	13.2%	19.2%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	962		
		not	any involvement in
National radio or television	full sample	engaged in farming	farming
Very significant source	11.3%	11.6%	9.9%
Major source	29.0%	31.3%	20.2%
Minor source	37.2%	35.8%	44.0%
Not a source	22.4%	21.3%	25.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	953	100.0%	100.0%
responses (unweighted total)	933	not	any
		engaged in	any involvement in
Internet sources	full sample	farming	farming
Very significant source	6.1%	6.1%	3.6%
Major source	21.6%	22.8%	20.1%
Minor source	37.3%	37.0%	37.0%
Not a source	35.0%	34.1%	39.4%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	945		
		not	any
		engaged in	involvement in
Outdoor interest groups	full sample	farming	farming
Very significant source	10.0%	10.2%	8.7%
Major source	25.4%	25.8%	19.5%
Minor source	34.1%	32.1%	42.9%
Not a source	30.4%	31.9%	28.9%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	951		
		not	any
Farm advocacy groups	full sample	engaged in farming	involvement in farming
Very significant source	3.8%	2.6%	8.0%
Major source	17.6%	14.7%	28.0%
Minor source	35.1%	34.1%	42.7%
Not a source	43.5%	48.6%	21.3%
Total			
	100.0%	100.0%	100.0%
Responses (unweighted total)	944		

How much do you rely on the following sources for information about local water quality issues?

water quality issues:			
		not	any
Environmental groups	full sample	engaged in farming	involvement in farming
Very significant source	5.4%	5.4%	4.0%
Major source	27.9%	28.6%	21.9%
Minor source	35.5%	33.5%	44.1%
Not a source	31.1%	32.5%	30.0%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	947		
,		not	any
		engaged in	involvement in
Books or journals	full sample	farming	farming
Very significant source	2.9%	2.7%	3.1%
Major source	16.4%	14.6%	20.2%
Minor source	39.4%	38.6%	45.2%
Not a source	41.3%	44.0%	31.5%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	948		
		not	any
Bullita are attended in the automorphism	full seconds	engaged in	involvement in
Public meetings or hearings	full sample	farming	farming
Very significant source	5.5%	5.1%	5.8%
Major source	22.8%	22.9%	23.9%
Minor source	36.1%	33.6%	45.7%
Not a source	35.6%	38.3%	24.6%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	948		
		not engaged in	any involvement in
Field demonstrations	full sample	farming	farming
Very significant source	4.0%	3.6%	5.8%
Major source	15.2%	11.0%	32.8%
Minor source	30.2%	29.0%	32.9%
Not a source	50.7%	56.3%	28.4%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	947		
,		not	any
		engaged in	involvement in
Classes	full sample	farming	farming
Very significant source	2.9%	2.6%	4.4%
Major source	9.3%	7.8%	13.1%
Minor source	24.6%	24.0%	27.1%
Not a source	63.2%	65.6%	55.3%
Total	100.0%	100.0%	100.0%
Responses (unweighted total)	915		

Have you ever served on or participated in any of the following organizations? [unweighted responses]

		not engaged in	any involvement in
	full sample	farming	farming
Master gardener program	19	11	8
Citizen stream monitoring			_
program	21	13	8
Environmental groups	73	35	38
Farm advocacy groups	48	7	41
Local boards and commissions	108	36	72
Outdoor interest groups	206	121	85
Total (some respondents selected more than one organization)	475	223	252
Number of organization types involved in:			
0	67.9%	68.2%	67.5%
1	23.0%	22.8%	23.1%
2	6.6%	7.0%	6.2%
3 to 5	2.5%	2.0%	3.1%

Which [learning opportunity] would you be most likely to take advantage of to learn about water quality issues? [Unweighted responses.]

		not	any
		engaged in	involvement in
	Full sample	farming	farming
Printed fact sheets	656	338	292
Visit a website	486	279	192
Attend a weekend or evening			
class	156	67	83
Look at a demonstration or			
display	280	126	143
Read a newspaper article or			
series	587	322	139
Watch a video or DVD	249	134	108
Take a course for certification or			
credit	80	39	35
Watch a television program	461	251	189
Take part in a volunteer program	161	92	61
Train for a regular volunteer			
position	61	36	19
Expert assess water-related			
practices	163	58	99
Attend a fair or festival	180	97	73
Respondents	1042	513	471

statement, compared to a

Have your in dring (to the fallow) ing to conserve water or preserve water quality? [unweighted responses]

	Full sample	not engaged in farming	any involvement in farming
Replaced or repaired your septic	Tun sample	141111111111111111111111111111111111111	101111116
system (city water users excluded) Pumped your septic system (city	39.1%	37.6%	40.1%
water users excluded)	73.0%	73.9%	72.4%
Tested your drinking water (city water users excluded)	67.3%	64.8%	69.0%
Reduced or eliminated lawn watering	55.8%	59.2%	53.2%
Changed the landscaping in your yard	25.7%	26.1%	25.2%
Reduced/eliminated lawn chemical applications	47.5%	49.7%	46.7%
Reduced/eliminated farm chemical applications			25.9%
Installed water saving fixtures in			
your home	42.2%	47.6%	37.8%
Improved management of livestock waste			28.0%
Installed erosion control practices			48.1%
Respondents	1042	513	471

How much do you agree or disagre	e with the follo	wing statemer	its?
		not	any
If I own property, I have a right		engaged in	involvement in
to use my land as I wish	full sample	farming	farming
Strongly Agree	12.5%	10.5%	23.2%
Agree	34.8%	34.6%	34.2%
Neutral	20.0%	21.2%	16.2%
Disagree	24.2%	25.5%	20.7%
Strongly disagree	7.3%	7.8%	4.0%
No opinion	1.3%	0.5%	1.7%
Responses (unweighted)	987		
		not	any
If I own a well, I have a right to		engaged in	involvement in
clean drinking water	full sample	farming	farming
Strongly Agree	41.5%	44 00/	EO 40/
	41.570	41.2%	50.1%
Agree	45.0%	41.2% 44.8%	40.4%
Agree	45.0%	44.8%	40.4%
Agree Neutral	45.0% 7.5%	44.8% 8.2%	40.4% 5.7%
Agree Neutral Disagree	45.0% 7.5% 1.4%	44.8% 8.2% 1.4%	40.4% 5.7% 1.7%
Agree Neutral Disagree Strongly disagree	45.0% 7.5% 1.4% 0.5%	44.8% 8.2% 1.4% 0.5%	40.4% 5.7% 1.7% 0.5%

The public has a right to streams that are अड स्टाइंग्डिंग अधिकार के streams that are अड स्टाइंग्डिंग अधिकार के अधिकार के streams conditions there are evenly divided	full sample	not engaged in farming	any involvement in farming
Strongly Agrag support, opposition,	36.9%	40.5%	25.3%
Agree and neutrality.	50.7%	50.5%	51.6%
Neutral	7.6%	6.6%	14.2%
Disagree	1.9%	0.5%	4.9%
Strongly disagree	0.5%	0.2%	1.9%
No opinion	2.3%	1.7%	2.1%
Responses (unweighted)	987		
If I own property, I should be paid to prevent erosion	full sample	not engaged in farming	any involvement in farming
Strongly Agree	2.7%	1.8%	7.6%
Agree	13.2%	9.6%	24.9%
Neutral	34.5%	35.1%	32.9%
Disagree	36.6%	40.8%	21.0%
Strongly disagree	8.6%	8.7%	10.5%
No opinion	4.3%	4.0%	3.0%
Responses (unweighted)	981		
In public waters, I have a right to catch fish that are safe to eat	full sample	not engaged in farming	any involvement in farming
Strongly Agree	41.5%	45.7%	27.6%
Agree	49.9%	47.2%	59.2%
Neutral	5.5%	4.9%	7.3%
Disagree	0.9%	0.7%	2.2%
Strongly disagree	0.2%	0.1%	0.9%
No opinion	1.9%	1.4%	2.8%
Responses (unweighted)	986		

	nt in
<b>0</b> -	ning
Strongly Agree 48.0% 51.4% 3.	5.6%
Agree 44.3% 41.9% 5	3.8%
Neutral 4.6% 3.9%	5.8%
Disagree 0.7% 0.6%	1.4%
Strongly disagree 0.2% 0.1%	0.9%
No opinion 2.2% 2.0%	1.6%
Responses (unweighted) 989	
Most people will voluntarily give not	any
up profits to protect water engaged in involveme	
	ming
3, 3	3.3%
	9.0%
	5.9%
	7.7%
	9.7%
·	4.5%
Responses (unweighted) 983  Most people will voluntarily give not	any
up profits to protect natural engaged in involveme	,
	ming
Strongly Agree 2.8% 3.0%	2.5%
Agree 15.0% 14.8% 1	3.7%
Neutral 23.0% 22.8% 2	5.5%
Disagree 39.9% 40.2% 4	2.2%
Strongly disagree 16.3% 17.1% 1	0.4%
No opinion 2.9% 2.2%	4.8%
Responses (unweighted) 984	
Federal regulations are a good not	any
way to protect streams andengaged in involvemegroundwaterfull samplefarmingfarm	nt in ming
· ·	9.7%
	3.7%
	3.7%
Neutral 23.8% 24.6% 2	
	9.4%
Disagree 12.7% 11.5% 1	9.4% 1.5%
Disagree         12.7%         11.5%         1           Strongly disagree         5.4%         3.6%         1	9.4% 1.5% 2.1%

State regulations are a good way to protect streams and groundwater	full sample	not engaged in farming	any involvement in farming
Strongly Agree	17.3%	19.3%	10.5%
Agree	52.6%	53.5%	43.5%
Neutral	17.6%	17.4%	22.3%
Disagree	6.3%	5.0%	12.9%
Strongly disagree	3.9%	2.8%	8.5%
No opinion	2.3%	2.0%	2.3%
Responses (unweighted)	986		
Local regulations are a good way		not	any
to protect streams and		engaged in	involvement in
groundwater	full sample	farming	farming
Strongly Agree	20.3%	22.2%	14.9%
Agree	56.4%	56.5%	52.7%
Neutral	14.7%	14.0%	18.6%
Disagree	3.9%	3.4%	7.3%
Strongly disagree	2.5%	1.8%	4.4%
No opinion	2.3%	2.0%	2.1%
Responses (unweighted)	987		
The government should provide		not	any
incentives for water quality		engaged in	involvement in
protection	full sample	farming	farming
Strongly Agree	16.3%	15.8%	20.0%
Agree	39.1%	38.8%	38.8%
Neutral	26.9%	28.2%	21.7%
Disagree	12.2%	12.5%	13.2%
Strongly disagree	3.4%	3.3%	2.6%
No opinion	2.0%	1.4%	3.7%
Responses (unweighted)	1000		

Effective watershed management is best done at the		not engaged in	any involvement in
grassroots level	full sample	farming	farming
Strongly Agree	19.9%	19.4%	23.6%
Agree	53.4%	52.9%	55.5%
Neutral	19.1%	20.4%	14.2%
Disagree	4.1%	4.5%	2.4%
Strongly disagree	0.2%	0.1%	0.6%
No opinion	3.3%	2.6%	3.7%
Responses (unweighted)	1003		
		not	any
Free market forces adequately	full cample	engaged in	involvement in
protect water resources	full sample	farming	farming
Strongly Agree	2.4%	2.5%	2.0% 14.9%
Agree	7.9%	6.5%	
Neutral	36.5%	36.0%	39.7%
Disagree	32.0%	33.1%	27.7%
Strongly disagree	13.2%	14.0%	9.0%
No opinion	8.1%	8.0%	6.6%
Responses (unweighted)  A good way to protect water	994	not	any
quality is by neighbors talking to		engaged in	involvement in
neighbors	full sample	farming	farming
Strongly Agree	10.0%	9.3%	13.1%
Agree	46.4%	46.4%	44.9%
Neutral	26.1%	27.1%	25.4%
Disagree	10.5%	10.8%	9.1%
Strongly disagree	1.4%	1.4%	1.6%
No opinion	5.6%	5.1%	5.8%
Responses (unweighted)	1002		
A d b b b		not	any
A good way to protect water quality is through education	full sample	engaged in farming	involvement in farming
4			
Strongly Agree	35.5%		
Strongly Agree Agree	35.5% 57.9%	34.2%	39.3%
Strongly Agree Agree Neutral	35.5% 57.9% 5.1%		
Agree Neutral	57.9%	34.2% 60.0% 5.1%	39.3% 50.6% 5.9%
Agree	57.9% 5.1%	34.2% 60.0%	39.3% 50.6%
Agree Neutral Disagree	57.9% 5.1% 0.3%	34.2% 60.0% 5.1% 0.1%	39.3% 50.6% 5.9% 1.2%

### How often do you use the area around the Mississippi River-Winona Watershed for a recreational purpose?

	full sample	not engaged in farming	any involvement in farming	
Monthly or more frequently	49.4%	54.2%	28.4%	
More than once per year	29.9%	27.5%	38.6%	
Less than once per year	10.4%	10.1%	12.9%	
Never	10.3%	8.1%	20.0%	
Responses (unweighted)	1007			
Which of the following activities				
do you do in the area around the		not	any	
Mississippi River-Winona	full sample	engaged	involvement in	Weighted % of
Watershed?	(unweighted)	in farming	farming	Responses
Walking, hiking, or skiing Bird-watching, photography, wildflower identification, or	63.6%	71.5%	58.0%	65.5%
similar activities	31.8%	36.6%	26.8%	30.1%
Swimming, wading, or watercraft				
in streams	41.2%	52.4%	31.0%	46.1%
Fishing	52.2%	60.6%	44.4%	52.0%
Camping	27.8%	36.5%	20.6%	32.2%
Hunting	41.7%	39.2%	46.7%	34.3%
Responses (unweighted)	1042	513	471	

The remaining survey questions provide information on the characteristics of the respondents.

Are you currently engaged in farming? (Check the description that best applies.)	Count	Unweighted % of Responses	Weighted % of Responses
Yes, as an operator or spouse of an operator of	Count	or nesponses	пезропаез
land that I/we own or rent	232	23.60%	6.90%
Yes, as an owner or spouse of an owner of land			
that we rent to others	175	17.80%	5.30%
Yes, as an employee of a farmer or on-farm			
service business	20	2.00%	1.70%
Yes, in another way (please specify: help family,			
minor farming, CRP)	10	1.00%	3.20%
No, I am a retired farmer	34	3.50%	0.50%
No	513	52.10%	82.50%
Total Responses	984		
Missing (left blank: 5.6%)	58		
		Unweighted %	Weighted % of
Do you reside in the watershed?	Count	of Responses	Responses
Yes	889	90.6%	90.6%
No	92	9.4%	9.4%
Total Responses	981		
Missing (left blank: 5.9%)	61		

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