

Utah's Water Future

**Local Resident Perspectives on Water Issues
in the Heber Valley and Beyond**



INTRODUCTION & BACKGROUND

Water is a vital resource for sustaining life in the American West. The availability of water allowed the pioneer settlement of Utah's mountain valleys in the 1800s, and water continues to provide for economic development, population growth, recreational activities and environmental quality.

Our project is designed to learn how households in Utah manage and think about their water. This survey asks questions about your household, water management practices, and concerns, values, and views on a range of water issues.

We have randomly selected neighborhoods and households to represent the diversity of people who live in Utah. Participation in this study is voluntary, but for our results to be scientifically valid, we need as many selected households as possible to complete and return the questionnaire. All information provided will be treated as strictly confidential, and no findings will be released that could identify the identity of any particular respondents. More information about the study and our efforts to protect the interests of our respondents can be found on the Letter of Information included with this survey.

INSTRUCTIONS

Who should fill out the survey? We ask that an adult (18 or over) in each selected household with general knowledge about the household's water use and decisions fill out the survey.

How do I return the survey? Our team should have made arrangements to pick up the survey at a particular time and day. Please put the completed survey in envelope and bag provided and hang it on your doorknob for us to pick up. If you need to schedule a time to pick up the survey, call either of the numbers below.

How do I record my answers? Most questions in this survey will ask you to check a circle to indicate your answer. We ask that you use a dark pen or pencil to place an "X" or "✓" in the space provided (see example below). Some questions provide a space to write in more details. You can always write notes on the survey to clarify your answers where you think it would be helpful to us.

EXAMPLE QUESTION: How much do you like filling out surveys? *Select the answer that best applies to you.*

*I strongly dislike
filling out surveys*

☐☐☐☒☐

*I love filling out
surveys*

If I have questions, who can I contact? This study is being coordinated by researchers at the Utah State University and the University of Utah. If you have questions about the study (or about specific items in the survey) feel free to contact one of the project leaders:

- **Dr. Douglas Jackson-Smith, Utah State University:** 435-797-0582 or doug.jackson-smith@usu.edu
- **Dr. Courtney Flint, Utah State University:** 435-797-8635 or courtney.flint@usu.edu

A. YOUR HOUSEHOLD'S WATER USE

Initially, we would like to know some basic things about your household's use of water.

A1. In what ways does your household regularly use water on this property? (✓ all that apply)

- ☐ Indoor uses (drinking, bathing, washing, etc.)
- ☐ Outdoor landscaping (lawn, garden, trees, etc.)
- ☐ Swimming pool or hot tub
- ☐ Farm uses (pasture or livestock)

A2. How familiar are you with the total quantity of water your household uses each month?

Not at all familiar

Very familiar

☐ ☐ ☐ ☐ ☐

A3. How do you think your household water use compares to the average household in this neighborhood?

Much less than average

About the same

Much more than average

☐ ☐ ☐ ☐ ☐

A4. How familiar are you with how much money your household usually spends on water each month?

Not at all familiar

Very familiar

☐ ☐ ☐ ☐ ☐

A5. How has your household's INDOOR use of water (for drinking, bathing, washing, etc.) changed in the last 5 years?

Decreased a lot

About the same

Increased a lot

Not sure

☐ ☐ ☐ ☐ ☐ ☐

A6. Overall, how often do members of your household do any of the following to reduce indoor water use?

	<i>Never</i>	<i>Rarely</i>	<i>Some- times</i>	<i>Mostly</i>	<i>Always</i>
a. Take fewer or shorter showers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Only run dishwasher when full	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Turn water off when brushing teeth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Buy low water use appliances and fixtures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Fix leaky faucets and toilets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

A7. How strongly do you disagree or agree with the following statements?

	<i>Strongly disagree</i>	<i>Neither agree nor disagree</i>	<i>Strongly agree</i>
a. There is more my household could do to reduce our <u>indoor</u> water use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. There is more my household could do to reduce our <u>outdoor</u> water use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

B. LAWN WATERING

Now we have some questions about your household's lawn (the grass in your landscape).

B1. Do you have an outdoor lawn on the property where you live?

- ☐ NO ➡ *If no, skip to SECTION C, page 6*
- ☐ YES *continue to question B2*

B2. What statement best describes your household's usual approach to fertilizing your lawn? (✓one)

- ☐ Our lawn is not fertilized
- ☐ We fertilize our lawn ourselves – once a year or less
- ☐ We fertilize our lawn ourselves – more than once a year
- ☐ We have a professional company fertilize our lawn at least once a year
- ☐ Other (specify): _____

B3. Is the lawn on the property where you currently live usually watered?

- ☐ NO ➡ *If no, skip to SECTION C, page 6*
- ☐ YES *continue to question B4*

B4. Are you (or others in your household) responsible for watering this lawn?

- ☐ NO ➡ *If your household is not responsible for watering the lawn, please answer question B4a then SKIP to Section C, page 6.*
- ☐ YES *continue to question B5*

If your household is not responsible for watering the lawn, please answer question B4a then SKIP to Section C, page 6.

B4a. If no, who is mainly responsible for watering this lawn? (✓one)

- ☐ Landlord or property owner
- ☐ Homeowner or condominium association
- ☐ Hired private company (e.g. lawn maintenance service)
- ☐ Other: _____

B5. How is your lawn watered? (Do not include pastures or farm fields and ✓ all that apply)

- ☐ A hand-held hose
- ☐ Sprinklers attached to a hose
- ☐ An underground sprinkler system
- ☐ Flood irrigation
- ☐ Other (explain): _____

B6. Which method from B5 above is used to water MOST of your lawn? _____

B7. Is any part of your lawn watering system currently on an automatic timer?

- ☐ No ☐ Yes | ☐ Not sure

B8. On an average week in July, how many days per week do you water your lawn?

(Write your best estimate in the space provided)

Number of days per week _____ ☐ Not sure

B9. What times of day is your lawn usually watered? (✓ the one that best applies)

- ☐ No regular pattern to when I water – whenever I can
- ☐ Mostly in the morning or evening
- ☐ Mostly during the day
- ☐ Mostly at night
- ☐ Other (specify): _____

B10. How has the amount of water your household uses to water the lawn changed in the last 5 years?

Decreased a lot ☐ *About the same* ☐ *Increased a lot* ☐ *Not sure* ☐

B11. How important are each of the following factors to you when making decisions about when and how much to water your lawn?

	<i>Not at all important</i>				<i>Very important</i>
a. Vary amount based on weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Minimize time I spend watering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Conserve amount of water used	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Keep a regular watering schedule	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Prevent brown spots on lawn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Maintain my property value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Keep my neighbors happy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

B12. Since you moved in, have any of the following been done to your lawn watering system?

	<i>No</i>	<i>Yes</i>	<i>Not sure</i>
a. Tested sprinklers to see how much water they apply	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Estimated how much water is needed by the lawn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

B13. Have you ever participated in the “Slow the Flow Water Check” program (an on-site sprinkler evaluation by Utah State University Extension)?

☐ No ☐ Yes ☐ Not sure

B14. Have you ever done any of these things to your lawn watering system (here or at previous residence)?

	<i>No</i>	<i>Yes</i>	<i>Not sure</i>
a. Installed more efficient lawn watering system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Installed automatic timer for lawn watering system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

C. OUTDOOR LANDSCAPING

Now we have some questions about your household's lawn and yard.

C1. Do you have any outdoor plants or landscaping at all on this property?

- ☐ NO ➔ *If no, skip to SECTION D on page 7*
- ☐ YES *continue to question C2*

C2. Which of the following kinds of plants do you have in your yard? (✓ all that apply)

- ☐ Lawn
- ☐ Flowers or ornamental plants
- ☐ Trees
- ☐ Low water use or 'water-wise' plants
- ☐ Vegetable garden

C3. Are you (or others in your household) responsible for deciding what plants are in your yard?

- ☐ NO ➔ *If no, skip to SECTION D on page 7*
- ☐ YES *continue to question C4*

C4. How important are the following factors in your choices about WHICH PLANTS to have in your yard?

	Not at all important				Very important
a. Minimizing water use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Providing shade	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Providing a place to play or relax	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Making landscape look nice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Providing habitat for wildlife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Growing my own food	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Keeping neighbors happy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

C5. How interested are you in making the following changes in your yard watering or landscaping?

	Not at all interested				Very interested
a. Reduce the amount of grass area in my landscape to conserve water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Replace my current landscape with low-water use plant species	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Install a more efficient irrigation system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Replace ditch/flood irrigation with pressurized water system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

D. WELLS, WATER RIGHTS & SECONDARY WATER. The following questions relate to water you might obtain from a private well, irrigation company or other type of secondary (non-culinary) water system.

D1. Does any of your household's indoor or outdoor water come from a private well?

- ☐ No ☐ Yes

D2. Do you or any members of your household currently own any water rights or water shares in Utah?
(✓ all that apply)

- ☐ No ☐ Yes - for this property ☐ Yes – for another property in Utah

SECONDARY WATER: In some parts of Utah, households have a second source of water supply that they use just for outdoor irrigation (since it is non-drinkable). This is often provided by a different company than their regular drinking water (like an irrigation or canal company, but sometimes the city).

D3. Does your household have access to a 'secondary' water source?

- ☐ NO ➡ If no, skip to SECTION E, page 8
☐ YES continue to question D4



D4. How do you use your secondary water? (✓ all that apply)

- ☐ We have access to it, but don't use our secondary water
☐ To water lawn and/or other yard landscaping
☐ To water vegetable garden
☐ To water pasture or other agricultural crops
☐ To water livestock
☐ Other (specify): _____

D5. How is your secondary water delivered to your property? (✓ all that apply)

- ☐ Directly from an open ditch or canal ☐ In pressurized pipe
☐ Other (specify): _____

D6. How satisfied are you with your secondary water system?

Very Unsatisfied

Neither satisfied or unsatisfied

Very Satisfied

- ☐ ☐ ☐ ☐ ☐

D7. Have you had any problems with low (or high) pressure in your secondary irrigation line?

- ☐ No ☐ Yes – problems with low pressure ☐ Yes – problems with high pressure

D8. Have you attended any meetings with your secondary water provider?

- ☐ No ☐ Yes

D9. How confident are you that your secondary water supply is secure for the next 20 years?

Not confident

Very confident

Not sure

- ☐ ☐ ☐ ☐ ☐ ☐

E. WATER IN THE HEBER VALLEY. The next questions explore your thoughts about the current and future status of water resources in this area.

E1. How willing would you be to reduce your own water use if you knew the water you conserved would...

	<i>Not at all willing</i>			<i>Very willing</i>	
a. Reduce your water bill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Ensure future supplies for your home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Allow increased development in this area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Ensure future supplies for agriculture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Improve urban parks and open spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Improve fish and wildlife habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Improve opportunities for water recreation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E2. If residents in Heber City were able to cut their water use by 20%, what do you think would most likely happen to the water they saved? (check one)

- ☐ It would be stored upstream in reservoirs for future use in Heber
- ☐ It would be sold or transferred to downstream users in Utah County

E3. For each of the following statements, indicate whether you disagree or agree:

There is enough water to meet the <u>CURRENT</u> needs of all the people and businesses in:	<i>Strongly disagree</i>		<i>Neither agree nor disagree</i>		<i>Strongly agree</i>
Heber City	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heber Valley	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utah	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is enough water to meet the <u>FUTURE</u> needs of all the people and businesses in:					
Heber City	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heber Valley	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utah	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E4. Thinking about the next 10 years in this Valley, how concerned are you about the following issues?

	<i>Not at all concerned</i>			<i>Very concerned</i>	
a. Water shortages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Flooding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Poor water quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. High cost of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Deteriorating water infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Air pollution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Traffic congestion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Loss of open space	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Population growth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E5. Thinking of the Heber Valley, how strongly do you disagree or agree with the following statements?

	<i>Strongly disagree</i>	<i>Neither agree nor disagree</i>	<i>Strongly agree</i>
a. Too much water is used for agriculture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Too much water is used to maintain residential lawns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Too much water is used by industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Too much water is used by parks and golf courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E6. How would you rate the water quality of the following types of water?

	<i>Very bad</i>	<i>Neither good nor bad</i>	<i>Very good</i>	<i>Not sure</i>
a. My current drinking water supply	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Water in streams and creeks in my neighborhood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Water in nearby irrigation canals and ditches	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Groundwater beneath my neighborhood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Water in rivers and lakes upstream	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Water in streams or rivers downstream	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Water in reservoirs or lakes downstream	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E7. Are you aware of any instances in the last 10 years where flooding and/or stormwater caused the following types of impacts to either your household or community? (Check NO or YES for each)

	Impacts on Household		Impacts on Community	
	<i>NO</i>	<i>YES</i>	<i>NO</i>	<i>YES</i>
a. Flooded basements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Contaminated drinking water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Contaminated streams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Private property damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Damage to public roads & infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Loss of life or injury to a person	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E8. Many discussions of water issues are linked to beliefs about climate change. We know there are many points of view on this controversial subject. Which statement comes closest to your own view?

- ☐ Climate change is happening and is caused mostly by human activities
- ☐ Climate change is happening and is caused mostly by natural processes
- ☐ Climate change is not happening
- ☐ I don't know enough to say if climate change is happening

E9. How worried are you that climate change will significantly impact water supplies in this valley?

Not worried

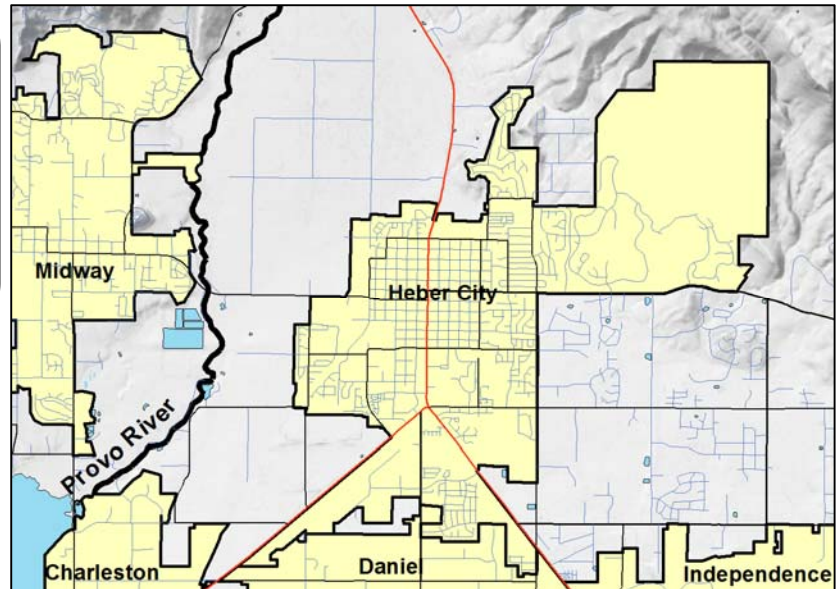
☐
☐
☐
☐

Very worried

☐

PROVO RIVER QUESTIONS

The Provo River is located near your neighborhood. We highlighted its location on the map to the right. The next few questions are about your experiences and views about living near this stretch of the Provo River.



E10. Have you ever spent time in or near the Provo River?

- ☐ No
☐ Yes
☐ Not sure

E11. Before filling out this survey, how familiar were you with the portion of the Provo River that flows through or near this valley?

*Never knew it
were there*

Very familiar

☐ ☐ ☐ ☐ ☐

E12. Which of the following aspects of this stretch of the Provo River have a negative or positive impact on you or your household?

	<i>Strong negative impact</i>		<i>No Impact</i>	<i>Strong positive impact</i>	
a. Sights and sounds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Place to visit and walk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Place to play	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Habitat for wildlife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Other (explain): _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E13. As you think about the Provo River, how concerned are you about the following issues?

	<i>Not at all concerned</i>			<i>Very concerned</i>	
a. Smell	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Flooding potential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Attracts nuisance wildlife or insects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Other (explain): _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E14. Overall, how do you think the Provo River influences quality of life in this neighborhood?

Negative influence

No influence

Positive influence

☐ ☐ ☐ ☐ ☐

E15. If Heber City faced a short-term water shortage, how much would you oppose or support each of the following possible local policies or strategies?

	<i>Strongly oppose</i>				<i>Strongly support</i>
a. Educate the public about how to conserve water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Implement mandatory watering restrictions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Encourage voluntary reductions in outdoor water use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Restrict watering on parks, golf courses, and public properties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

E16. Thinking of Heber City's longer-term approach to water policy and management, how much would you oppose or support each of the following policies or strategies?

	<i>Strongly oppose</i>				<i>Strongly support</i>
a. Subsidize the purchase of low water use irrigation systems and appliances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Build new water storage facilities (reservoirs, tanks, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Buy water rights from farms for use in the city	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Charge more per gallon for large water users	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Limit future housing development unless water supplies are secured by the developer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Implement ordinances to require low-water landscaping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Encourage housing development that uses less water per person (e.g. smaller lots, townhomes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Develop a system to reuse treated wastewater for residential irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Require new housing developments to install secondary water systems for outdoor irrigation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Use city funds to upgrade secondary water systems for outdoor irrigation with pressurized lines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Increase budgets for stormwater management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. Build structures to reduce stormwater runoff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. Reduce requirements for environmental protection to facilitate new water projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

F. WATER IN UTAH

The state of Utah is currently engaged in a long-term water planning process. The results of this survey will be shared with state policymakers to help them know the priorities of Utah residents.

F1. How much of a priority should each of the following goals be for managing Utah's water resources?

	<i>Not a priority</i>				<i>Highest priority</i>
a. Ensuring supply of drinking water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Ensuring supply of water for agriculture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Ensuring supply of water for economic development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Providing recreation opportunities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Protecting water quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Protecting wetlands and wildlife habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Saving taxpayer money	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

F2. State officials and water managers have conducted public meetings to gather input on a state water plan. A few of the many strategies suggested are listed below. How much would you oppose or support each of the following policies, programs or strategies?

	<i>Strongly oppose</i>		<i>Neither oppose nor support</i>		<i>Strongly support</i>
a. Use state funds to build new reservoirs and other storage projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Use state funds to construct pipelines to bring water to urban areas from other regions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Use state funds to pay for efficiency improvements in agricultural irrigation systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Use state funds to help replace aging water system infrastructure in cities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Invest in research on new water conservation technologies and practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Allow people with water rights to sell water saved from using conservation practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Set minimum state standards for new private residential construction to reduce water use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Establish minimum flow requirements for streams to protect fish habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Facilitate transfers of water from agriculture to urban users	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. Ensure state policy prioritizes the efficient use of water over protecting existing water rights	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

G. INFORMATION ABOUT YOU AND YOUR NEIGHBORHOOD

Finally, we have some questions that allow us to know more about you and the place you live. These questions help us make sense of the differences we might observe in household water use and policy priorities across Utah neighborhoods.

G1. Do you currently own or rent your residence?

- ☐ Own ☐ Rent

G2. Do you live at this location year-round or just seasonally?

- ☐ Year-round resident ☐ Seasonal resident

G3. How long have you lived at this address?

- ☐ Less than 1 year
☐ 1 to 3 years
☐ 3 to 5 years
☐ 6 to 10 years
☐ More than 10 years

G4. Do you expect to still be living in this same residence in 3 years?

- ☐ No ☐ Yes ☐ Not sure

G5. How many people currently live in your household including yourself?

_____ people

G6. How many of these people are under 18 years old?

_____ people

G7. Does your household belong to a homeowner/condominium association (HOA or COA)?

- ☐ No ☐ Yes

G8. Are you originally from the Heber Valley?

- ☐ No ☐ Yes

G9. Are you originally from Utah?

- ☐ No ☐ Yes

G10. How would you describe the place you grew up? (✓ the one answer that best applies)

- ☐ On a farm
☐ Rural area or small town
☐ Suburban area
☐ Urban area

G11. Do you or any of your relatives currently farm?

- ☐ No ☐ Yes

G12. Do you get information about water issues from any of the following sources?

	<i>No</i>	<i>Yes</i>
a. Salt Lake Tribune	<input type="radio"/>	<input type="radio"/>
b. Deseret News	<input type="radio"/>	<input type="radio"/>
c. Wasatch Wave	<input type="radio"/>	<input type="radio"/>
d. TV or radio	<input type="radio"/>	<input type="radio"/>
e. Internet or social media	<input type="radio"/>	<input type="radio"/>
f. Mailings or other contact from water provider	<input type="radio"/>	<input type="radio"/>
g. Homeowners or neighborhood association	<input type="radio"/>	<input type="radio"/>
h. Conversations with friends and neighbors	<input type="radio"/>	<input type="radio"/>

G13. How often do you participate in any of the following water-related recreational activities in Utah?

	<i>Never</i>	<i>Rarely</i>	<i>Sometimes</i>	<i>Often</i>
a. Fishing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Boating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Gardening	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Walking or hiking near water bodies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Skiing or snowboarding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Snowmobiling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Bird watching near water bodies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. Hunting waterfowl	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

G14. Have you or any adult in your household participated in any of the following activities during the past 12 months?

	<i>No</i>	<i>Yes</i>
a. School group activities (PTA, boosters, volunteer, etc.)	<input type="radio"/>	<input type="radio"/>
b. Church group activities	<input type="radio"/>	<input type="radio"/>
c. Civic or charity group activities	<input type="radio"/>	<input type="radio"/>
d. Contacted a public official about some issue	<input type="radio"/>	<input type="radio"/>
e. Attended a public meeting or hearing	<input type="radio"/>	<input type="radio"/>
f. Worked with others on an issue or problem in my community	<input type="radio"/>	<input type="radio"/>
g. Served on government board, committee or commission	<input type="radio"/>	<input type="radio"/>

G15. For each of the following items, please indicate whether you are dissatisfied or satisfied with that aspect of your neighborhood?

	<i>Very dissatisfied</i>				<i>Very satisfied</i>
a. Appearance of homes and yards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Opportunities to interact with neighbors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Number of shade trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Quality of parks and common spaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Overall quality of life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

This final page asks questions that help us be sure we have heard from the full range of perspectives found in Utah. Remember that your answers will be treated as confidential, and no information that identifies any individual respondent or household participating in this study will ever be released. These questions are important to us, but if you are uncomfortable answering a question, you may leave it blank.

G16. In what year were you born? _ _ _ _

G17. Are you male or female?

☐ Male

☐ Female

G18. What is the highest level of school you have completed?

- ☐ Less than high school
- ☐ High school diploma
- ☐ Some college
- ☐ Vocational/technical degree
- ☐ 4 year college degree
- ☐ Graduate degree

G19. What category best describes your race or ethnicity?

- ☐ Asian or Pacific Islander
- ☐ Black or African American
- ☐ Native American
- ☐ Hispanic or Latino
- ☐ White
- ☐ Other (explain): _____

G20. What category best describes your religious preference, if any?

- ☐ Mormon/LDS
- ☐ Other Protestant
- ☐ Catholic
- ☐ Jewish
- ☐ Other religion
- ☐ No religious preference

G21. What would you estimate your total household income will be in 2014 (before taxes)?

- ☐ Under \$25,000
- ☐ \$25,000-\$49,999
- ☐ \$50,000-\$74,999
- ☐ \$75,000-\$99,999
- ☐ Over \$100,000

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings visible.

If you want to receive a summary of the results, please fill out the optional card and put it in the bag outside the envelope.