

2015 Oklahoma Weather, Society and Government Survey: M-SISNet Wave 7 (Summer 2015)

n = 2,532; September 8 – October 23, 2015; Median Time = 27 min

My name is Hank C. Jenkins-Smith, and I am a professor at the Center for Risk and Crisis Management at the University of Oklahoma. I am requesting that you volunteer to participate in a research study titled “Oklahoma Weather, Society and Government Survey.”

Purpose of the Research Study

The purpose of this study is to measure perceptions of weather in Oklahoma and views on government policies and societal issues, and to understand how those perceptions and views might shape Oklahomans’ uses of water and energy.

Number of Participants

Up to 7,000 people will take part in this study.

Procedures and Length of Participation

If you agree to participate in this study, you will be asked to respond to an Internet survey that should take an average of about 30 minutes to complete. You will be invited to respond to a similar Internet survey each quarter (four times per year) until May 2018.

Risks of being in the study

There are no risks associated with participation in this study.

Benefits of being in the study

There are no benefits associated with participation in this study.

Compensation

Should you complete the survey, you will receive a \$10 gift card.

Confidentiality

The records of this study will be kept private. In published reports, there will be no information included that will make it possible to identify you as a research participant. Research records will be stored securely. The data will not include any information that would make it possible to identify you. Only approved researchers will have access to the records. There are organizations that may inspect and/or copy your research records for quality assurance and data analysis. These organizations include the OU Institutional Review Board.

Voluntary Nature of the Study

The study will ask questions about your observations on current issues, including your views on extreme

weather and climatological issues such as severe thunderstorms, wind events, floods, droughts, and long-term weather patterns. In the unlikely event that any of these questions make you uncomfortable, in most cases you may skip that question and continue with the survey. In a few cases, we require responses to certain questions so that we know what to ask you in a follow-up question. You may also quit the survey at any time, should you desire to do so.

Contacts and Questions

If you have concerns or complaints about the research, I am the primary investigator conducting this study, and I can be contacted at the Center for Risk and Crisis Management at the University of Oklahoma, at (405) 325-1720 or at crcm@ou.edu. In the event of a research-related injury, contact the researcher(s). You are encouraged to contact the researcher(s) if you have any questions. If you have any questions, concerns, or complaints about the research and wish to talk to someone other than the individuals on the research team, or if you cannot reach the research team, you may contact the University of Oklahoma – Norman Campus Institutional Review Board (OU-NC IRB) at (405) 325-8110 or irb@ou.edu.

consent: Do you agree to participate in this study?
[DROPDOWN LIST]

- 0 - No, I do not want to participate in this study
- 1 - Yes, I agree to participate in this study

[IF consent = 0, MOVE PARTICIPANT TO NEW PAGE WHICH STATES “**You have indicated that you do not want to participate in this study.** If you have reached this page by accident and do wish to participate in this study, please contact our technical support staff at: (405) 325-1720 or crcm@ou.edu.”]

Please print this information sheet for your records. By providing information to the researcher, I am agreeing to participate in this research.

This research has been approved by the University of Oklahoma, Norman Campus IRB.

IRB Number: 3938

Approval date: 09/03/2015

-----End Web Index pg-----

This survey involves policy choices about complex issues. Lengthy interruptions in the survey will make it difficult to respond to some of the questions. As previously noted, the survey should take only about 30 minutes to complete, but we ask that you avoid long interruptions if possible.

Please review the following demographic information that you previously provided to our research team. If the information is the same, there is no need for any action. However, if as of today our records are incomplete or incorrect, please provide us with the correct information by using the boxes provided below. Thank you!

[QUESTIONS gender THRU commercial ARE PRE-POPULATED, WHERE AVAILABLE, WITH THE DATA THAT WAS COLLECTED DURING RECRUITMENT]

age: How old are you? [VERBATIM]

-----End Web pg -----

[SHOW PAGE ONLY IF RESPONSE TO age IS < 18]

agescreen: To participate in this survey, you must be 18 years of age or older. Please verify your age before continuing. [VERBATIM]

[IF AN AGE < 18 IS ENTERED, MOVE PARTICIPANT TO NEW PAGE WHICH STATES “**You must be 18 or older to participate in the study.** To continue with the survey, or if you have reached this page by accident, please contact our technical support staff at: (405) 325-7655 or crcm@ou.edu.” IF AN AGE > 18 IS ENTERED, RETURN TO SURVEY]

-----End Web pg -----

gender: Are you male or female?

0 - Female

1 - Male

education: What is the highest level of education you have COMPLETED?

1 - Less than High School

2 - High School / GED

3 - Vocational or Technical Training

4 - Some College — NO degree

5 - 2-year College / Associate’s Degree

6 - Bachelor’s Degree

7 - Master’s degree

8 - PhD / JD (Law) / MD

hispanic: Do you consider yourself to be Hispanic, Latino, or Spanish or to have Hispanic, Latino, or Spanish origins?

0 - No

1 - Yes

race: Which of the following best describes your race?

1 - White

2 - Black or African American

3 - American Indian or Alaska Native

4 - Asian

5 - Native Hawaiian or Pacific Islander

6 - Two or more races

7 - Some other race (please specify)

race_spec: [VERBATIM]

adults: *Including yourself*, How many ADULTS AGE 18 AND OLDER live in your household?

[LIMIT TO NON-ZERO RESPONSE]

[VERBATIM] adults

children: How many CHILDREN AGE 17 AND YOUNGER live in your household?

[VERBATIM; REQUIRE NUMERIC RESPONSE]

children

-----End Web pg -----

employment: Which one of the following BEST describes your current employment status?

1 - Not working and not seeking a job outside the home

2 - Not working outside the home, but seeking work

3 - Working part-time outside the home

4 - Working full-time outside the home

5 - Working full-time inside the home

6 - Working part-time inside the home

7 - Student

8 - Retired

9 – Disabled

-----End Web pg -----

[SHOW QUESTION ONLY IF employment = 3,4,5, OR 6]

industry: Which of the following BEST reflects the kind of business or industry in which you are employed?

1 - Agriculture

2 - Mining

3 - Construction

4 - Manufacturing

5 - Transportation, Communications or Public Utility

6 - Wholesale or Retail Trade

7 - Restaurants

- 8 - Legal Services
 - 9 - Health And Medical Services
 - 10 - Education
 - 11 - Business & Accounting Services
 - 12 - Engineering & Technical Services
 - 13 - Personal Services or Recreational Services
 - 14 - Finance, Insurance, or Real Estate
 - 15 - Government
 - 16 - Other (please specify) _____
- industry_specify:** [VERBATIM]

-----End Web pg -----

Do you currently or have you ever worked in a business or industry that relates to any of the following natural resources in Oklahoma? [Please check all that apply] [RANDOMIZE]

- wrk_natres_oil:** Oil/Petroleum
- wrk_natres_gas:** Natural Gas
- wrk_natres_solar:** Solar
- wrk_natres_wind:** Wind
- wrk_natres_water:** Water
- wrk_natres_bio:** Biomass
- wrk_natres_other:** Other (please specify)
- wrk_natres_other_specify:** [VERBATIM]

-----End Web pg -----

income: Thinking specifically about the past 12 months, what was your annual household income from all sources?
\$ [VERBATIM]

-----End Web pg -----

footage: What is the approximate square footage of your home?
[VERBATIM; REQUIRED NUMERIC] sq. ft.

- home_type:** In what type of home do you live?
- 1 - Apartment
 - 2 - Single family home
 - 3 - Duplex
 - 4 - Mobile home
 - 5 - Condo or townhouse

- home_own:** Do you own or rent your home?
- 1 - Own
 - 2 - Rent

-----End Web pg -----

- home_lot:** Which of the following best describes your property?
- 1 - Urban lot in a densely populated area
 - 2 - Suburban lot in a neighborhood that is near a

- densely populated area
- 3 - Rural lot in a sparsely populated area

-----End Web pg -----

[SHOW ONLY IF home_lot = 3]

- ranch_farm:** Do you use your property for ranching or farming?
- 0 - No
 - 1 - Yes

-----End Web pg -----

[SHOW ONLY IF ranch_farm = 1]

- commercial:** Which of the following best describes your ranch or farm?
- 0 - a family ranch or farm primarily for personal use
 - 1 - a commercial ranch or farm

-----End Web pg -----

To begin, we would like you to compare weather patterns *this summer* (June, July and August 2015) to weather patterns in *previous summers*.

- ssn_precip:** In the area around where you live (by this we mean within about ten miles of your residence), would you say that the amount of precipitation that fell *this summer* was more, less, or about the same amount as in *previous summers*?
- 3 - More
 - 2 - About the same
 - 1 - Less

- ssn_tmp:** In the area around where you live, would you say that *this summer* has been warmer, cooler, or about the same as *previous summers*?
- 3 - Warmer
 - 2 - About the same
 - 1 - Cooler

-----End Web pg -----

Now we want you to compare weather patterns over the *past three years* to weather patterns in *previous years*.

- drghfreq:** In the area around where you live, has drought occurred more frequently, less frequently, or with about the same frequency in the *last three years* as drought in *previous years*?
- 3 - More frequently
 - 2 - With about the same frequency
 - 1 - Less frequently

drghtsev: In the area around where you live, has drought been more severe, less severe, or about as severe in the last three years as drought in previous years?

- 3 – More severe
- 2 – About as severe
- 1 – Less severe

fldfreq: In the area around where you live, has flooding occurred more frequently, less frequently, or with about the same frequency in the last three years as flooding in previous years?

- 3 – More frequently
- 2 – With about the same frequency
- 1 – Less frequently

fldsev: In the area around where you live, has flooding been more severe, less severe, or about as severe in the last three years as flooding in previous years?

- 3 – More severe
- 2 – About as severe
- 1 – Less severe

-----End Web pg -----

avgtmp: Again thinking about the last three years, would you say that overall, the average temperatures in the area around where you live have increased, decreased, or stayed about the same as compared to temperatures in previous years?

- 3 - Increased
- 2 - Stayed about the same
- 1 - Decreased

tmpextrm: Would you say that overall, extreme high and/or low temperatures have occurred more often, less often, or with about the same frequency in the past three years as compared to previous years?

- 3 - More often
- 2 - With about the same frequency
- 1 - Less often

-----End Web pg -----

This summer, have you experienced any of the following kinds of events in the area around where you live? [Please check all that apply] [RANDOMIZED LIST: 1 INDICATES SELECTED]

- evntexp_wind:** Extreme high winds
- evntexp_drght:** Drought
- evntexp_rain:** Extreme rainstorms
- evntexp_flood:** Floods
- evntexp_torn:** Tornadoes
- evntexp_fire:** Wildfires
- evntexp_ethqk:** Earthquakes
- evntexp_heat:** Extreme hot temperatures

evntexp_hail: Hail storms

-----End Web pg -----

In the area around where you live, would you say that each of the following kinds of events have happened more frequently, less frequently, or with about the same frequency this summer as in previous summers? [RANDOMIZED TABLE]

evntfreq_wind: Extreme high winds
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

evntfreq_rain: Extreme rainstorms
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

evntfreq_torn: Tornadoes
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

evntfreq_fire: Wildfires
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

evntfreq_ethqk: Earthquakes
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

evntfreq_heat: Extreme hot temperatures
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

evntfreq_hail: Hail storms
3 - More Frequently
2 - With about the same frequency
1 - Less Frequently

-----End Web pg -----

Looking to the future and again thinking about the area around where you live, do you think that each of the following kinds of events will happen more frequently, less frequently, or with about the same frequency over the next few summers as they have this summer? [There is no right answer; please provide your best guess.][RANDOMIZED TABLE]

evntfutfreq_wind: Extreme high winds
3 - More Frequently
2 - With about the same frequency

1 - Less Frequently

eventfufreq_drgh: Drought

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

eventfufreq_rain: Extreme rainstorms

3 - More Frequently

2 - About the Same

1 - Less Frequently

eventfufreq_flood: Floods

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

eventfufreq_torn: Tornados

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

eventfufreq_fire: Wildfires

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

eventfufreq_ethqk: Earthquakes

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

eventfufreq_heat: Extreme hot temperatures

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

eventfufreq_hail: Hail storms

3 - More Frequently

2 - With about the same frequency

1 - Less Frequently

-----End Web pg -----

As you may know, some parts of Oklahoma have experienced an increase in earthquakes over the last few years.

ethqk_risk: On a scale from zero to ten, where zero means no risk and ten means extreme risk, how much risk do you think earthquakes pose to people and property in Oklahoma?

0 - No risk

1

2

3

4

5

6

7

8

9

10 - Extreme risk

ethqk_cause: In your view, what is the primary cause of the increase in earthquakes that some parts of Oklahoma have experienced over the last few years?

[RANDOMIZE ORDER of 1 and 2]

1 – natural shifts of tectonic plates along fault lines

2 – human activities such as natural gas extraction and/or wastewater disposal

3 – Don't know

ethqk_risk_mgmt: On a scale from zero to ten, where zero means not at all involved and ten means extremely involved, how involved do you think the State of Oklahoma should be in managing the risks associated with earthquakes?

0 – not at all involved

1

2

3

4

5

6

7

8

9

10 – extremely involved

-----End Web pg -----

The next few questions concern water use for your residence.

wtr_billfreq: About how frequently do you receive your water bill?

1 - Quarterly

2 - Monthly

3 - Don't know

4 – I don't receive a water bill

-----End Web pg -----

[SHOW QUESTION ONLY IF wtr_billfreq IS OTHER THAN 4; REQUIRED NUMERIC, DECIMALS OK]

What was the approximate total cost (charges for water plus taxes and other fees) of your last water bill?

wtr_bill_totcost: \$ [VERBATIM]

wtr_bill_dk: Don't know [CHECKBOX: 1 INDICATES SELECTED]

wtr_use: As best you can recall, did you use more, less, or about the same amount of water at your residence this summer as you did last summer?

- 3 - More
- 2 - About the same amount
- 1 - Less

wtr_short: Over the past few months (June, July and August 2015), did you experience any water shortages or water use restrictions for your residence?

- 0 - No
- 1 - Yes

-----End Web pg -----

Do you (or others in your household) maintain any of the following at your residence? [Please check all that apply]

- mntain_lawn** – Residential lawn
- mntain_flwr** – Flower garden
- mntain_veg** – Fruit and/or vegetable garden

-----End Web pg -----

[SHOW PAGE ONLY IF AT LEAST ONE BOX IS CHECKED FOR mntain_lawn, mntain_flwr, or mntain_veg]

wtr_freq: During this summer, about how frequently did you (or someone else in your household) water your residential lawn or family garden?

- 1 – Never
- 2 – Less than once a month
- 3 – Once a month
- 4 – Once a week
- 5 – A few times a week
- 6 – Daily

-----End Web pg -----

Were any of the following steps taken to decrease the amount of water used at your residence this summer? [Please check all that apply][RANDOMIZED LIST (EXCEPT “other”): 1 INDICATES SELECTED]

- wtr_steps_flush:** Installed a low-volume or low-flush toilet
- wtr_steps_flow:** Installed a low-volume or low-flow showerhead
- wtr_steps_bath:** Took shorter or less frequent baths or showers
- wtr_steps_lawn:** Watered lawn or garden less frequently
- wtr_steps_car:** Washed car less frequently
- wtr_steps_leaks:** Repaired leaks

wtr_steps_ldry: Did laundry less frequently
wtr_steps_othr: Other (please specify)
wtr_steps_spec: [VERBATIM]

-----End Web pg -----

wtr_qual: Using a scale of excellent, good, fair or poor, how would you rate the overall quality of the drinking water at your residence?

- 4 - Excellent
- 3 - Good
- 2 - Fair
- 1 - Poor

wtr_safe: On a scale from zero to ten, where zero means not at all safe and ten means completely safe, how would you rate the safety of the drinking water at your residence for your health?

- 0 - Not at all safe
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Completely safe

-----End Web pg -----

wtr_comm: In your view, are the supplies of water in your region of Oklahoma adequate to meet the needs of your community over the next 25 years?

- 5 - Definitely yes
- 4 - Probably yes
- 3 - Unsure
- 2 - Probably no
- 1 - Definitely no

wtr_farm: In your view, are the supplies of water in your region of Oklahoma adequate to meet the needs of farmers and ranchers over the next 25 years?

- 5 - Definitely yes
- 4 - Probably yes
- 3 - Unsure
- 2 - Probably no
- 1 - Definitely no

-----End Web pg -----

The next set of questions concern energy use at your residence.

Which of these energy sources did you use at your residence this summer (June, July and August 2015)?

[Please check all that apply]
enrgy_source_elec: Electricity
enrgy_source_natgas: Natural Gas
enrgy_source_prop: Propane or Liquefied Petroleum Gas
enrgy_source_wood: Wood
enrgy_source_geo: Geothermal
enrgy_source_othr: Other (please specify)
enrgy_source_othr_spec: [VERBATIM]

-----End Web pg -----

[THIS PAGE ONLY DISPLAYED IF
enrgy_source_elec IS SELECTED]

What was the approximate total cost (including taxes and other fees) of your last electricity bill? [REQUIRED NUMERIC, DECIMALS OK]

elec_bill_totcost: \$ [VERBATIM]
elec_bill_dk: Don't know/Not Applicable [CHECK-BOX: 1 INDICATES SELECTED]

elec_use: As best you can recall, did you use more, less, or about the same amount of electricity at your residence this summer as last summer?

3 - More
2 - About the same amount
1 - Less

elec_out: During this summer, did you experience any electricity outages at your residence?

0 - No
1 - Yes

-----End Web pg -----

[THIS PAGE ONLY DISPLAYED IF
enrgy_source_natgas IS SELECTED]

What was the approximate total cost (including taxes and other fees) of your last natural gas bill? [REQUIRED NUMERIC, DECIMALS OK]

gas_bill_totcost: \$ [VERBATIM]
gas_bill_dk: Don't know/Not Applicable [CHECK-BOX: 1 INDICATES SELECTED]

gas_use: As best you can recall, did you use more, less, or about the same amount of natural gas at your residence this summer as last summer?

3 - More
2 - About the same
1 - Less

-----End Web pg -----

Were any of the following steps taken to decrease the amount of energy used at your residence this summer? [Please check all that apply][RANDOMIZED LIST (EXCEPT "other"): 1 INDICATES SELECTED]

enrgy_steps_lghts: Turned lights off
enrgy_steps_ac: Turned air conditioning down/off
enrgy_steps_savappl: Installed energy saving appliances

enrgy_steps_unplug: Unplugged appliances
enrgy_steps_insul: Added insulation
enrgy_steps_savdoor: Installed energy saving doors/windows

enrgy_steps_prog: Participated in a "smart energy" program (such as OG&E SmartHours or PSO GridSmart)

enrgy_steps_bulbs: Installed energy saving light bulbs

enrgy_steps_othr: Other (please specify)
enrgy_steps_othr_spec: [VERBATIM]

-----End Web pg -----

The next few questions are about surface water conditions in Oklahoma.

wtr_qual_lakestream: How would you rate the water quality of the streams and lakes in Oklahoma?

5 - Excellent
4 - Good
3 - Neither good nor poor
2 - Poor
1 - Very poor

In your opinion, what are the minimum conditions that must be met for the water quality of a stream or lake to be "good?" [Please select all that apply] [RANDOMIZE ORDER; 1 INDICATES SELECTED]

wtr_qual_boat: Water is safe for boating

wtr_qual_wade: Water is safe for wading

wtr_qual_swim: Water is safe for swimming

wtr_qual_fish: Water is safe for fish and wildlife

wtr_qual_clear: Water is clear

wtr_qual_odor: Water is odorless

wtr_qual_othr: Other (please specify)

wtr_qual_othr_spec: [VERBATIM]

poor_wtr_qual: In your opinion, what is the greatest threat to water quality in Oklahoma streams and lakes? [RANDOMIZE DROP DOWN CHOICES: "Litter and trash", "Pesticides", "Soil erosion and sedimentation", "Agricultural runoff", "Urban runoff", "Spills from oil and gas operations", "Don't Know"]

-----End Web pg -----

In the past 12 months, have you participated in any of the following activities in Oklahoma? [Please select all

that apply] [RANDOMIZE ORDER; 1 INDICATES SELECTED]

wtr_act_fish: Fishing

wtr_act_swim: Swimming or wading

wtr_act_boat: Boating

wtr_act_park: Visiting a park near water

wtr_act_camp: Visiting a campground near water

wtr_act_hunt: Hunting on public or private land near water

wtr_act_hike: Hiking on public or private land near water

-----End Web pg -----

Now, we would like your input about how to protect water quality in a specific part of Oklahoma: the Fort Cobb watershed. This watershed includes all the land that drains into Fort Cobb Reservoir, which is a large lake in western Oklahoma used primarily for recreation, agriculture and flood control. The Fort Cobb watershed is about 200,000 acres (an area that is equivalent to about half the size of Oklahoma City).

[FORT COBB MAP/DIAGRAM]

fmlr_ftcbb_rsrv: How familiar are you with Fort Cobb Reservoir?

4 – Very familiar

3 – Somewhat familiar

2 – Not very familiar

1 – Not at all familiar

visit_ftcbb_rsrv: How many times have you visited Fort Cobb Reservoir in the past 5 years? [VERBATIM, REQUIRE NUMERIC]

fmlr_ftcbb_wtrshd: How familiar are you with the Fort Cobb watershed (which includes all the land that drains into Fort Cobb Reservoir)?

4 – Very familiar

3 – Somewhat familiar

2 – Not very familiar

1 – Not at all familiar

-----End Web pg -----

[THIS PAGE ONLY DISPLAYED IF visit_ftcbb_rsrv > 0]

visit_ftcbb_rsrv_days: During a typical visit, how many days did you spend at Fort Cobb Reservoir? [VERBATIM, REQUIRE NUMERIC]

ftcbb_rsrv_qual: How would you rate the water quality at Fort Cobb Reservoir?

5 – Very good

4 – Good

3 – Neither good nor poor

2 – Poor

1 – Very poor

-----End Web pg -----

Some key benefits of the Fort Cobb watershed are: [RANDOMIZE BENEFIT ORDER]:

- Agriculture – In the Fort Cobb watershed, most of the land is used to produce wheat, cotton and beef cattle, and these farms and ranches are considered very productive.
- Clean water – Vegetation, particularly streamside vegetation, purifies the water that enters into streams and lakes by filtering out eroded soils and pollutants such as pesticides, oils and fertilizers.
- Erosion control – Natural vegetation cover and root systems can slow or stop soil erosion; soil erosion can reduce agricultural productivity, fill up streams and lakes with sediment, and damage fish and wildlife habitat.
- Wildlife habitat – Habitat provides the resources plants and animals need to survive. Natural vegetation along streams and lakes provides habitat for wildlife such as deer, raccoons and songbirds. Trees, shrubs, and submerged vegetation support fish by shading and cooling the water.

ftcbb_wtrshd_ben: In your view, what is the most important benefit provided by the Fort Cobb watershed? [DROP DOWN RANDOMIZED CHOICES: “Agriculture”, “Clean water”, “Erosion control”, “Wildlife habitat”]

-----End Web pg -----

Currently, approximately 90% of the land in the Fort Cobb watershed is used for agriculture – 50% for crops and 40% for pasture. Soil erosion and nutrient runoff, primarily from cropland, has impacted water quality in the watershed more so than in other areas of Oklahoma. Much of this impact is due to the presence of highly erodible soils, certain agricultural practices such as tilling, and the removal of natural streamside vegetation. Although the water in the streams and Fort Cobb Reservoir is considered fishable and generally safe for swimming, the clarity is poor and elevated levels of nutrient runoff have increased the frequency of toxic algae blooms.

[LAND USE PRACTICE DIAGRAMS]

There are a number of land use practices that help to restore clean water, improve erosion control and in-

crease wildlife habitat in watersheds. These practices include:

- Buffer strips – Convert the cropland and pasture that is closest to the streams in a watershed to natural vegetation, including native grasses, bushes and trees to control soil erosion and purify the water.
- No-till farming – Forego digging and overturning soils before planting crops in a watershed, to reduce or eliminate soil erosion.
- Converting cropland to pasture – Shift from growing crops in a watershed to raising cattle. Land in pasture undergoes less soil erosion than cropland.

All three of these practices are currently used in some parts of the Fort Cobb watershed and have been seen to improve water quality. However, these practices are not widely adopted because there are costs associated with implementing each one.

With this information in mind, we would like you to rank these practices in order of your preference. It is OK if you do not completely agree or completely disagree with the practices.

Please use the drop-down boxes to assign a number from one (*most* preferred) to three (*least* preferred). [ALLOW EACH NUMBER TO BE ASSIGNED ONLY ONCE; RANDOMIZED ORDER WITH DROP DOWN LIST of 1, 2 or 3: **ftcbb_sprt_buff** =“Buffer strips”, **ftcbb_sprt_farm** = “No-till farming”, **ftcbb_sprt_past** = “Converting cropland to pasture”]

-----End Web pg -----

Now we would like your input on a proposal to improve water quality in the Fort Cobb watershed. This proposal, called the Fort Cobb Watershed Water Quality Improvement Program, would go into effect if more than 50% of Oklahoma voters approve it in a statewide vote. Please consider the proposal carefully as your answers could be used to craft a future referendum or determine the amount of state funding allocated to this program.

[RANDOMIZE **program_track**: A, B, or C]

Program Actions

[**program_track**: A] The Program would provide funds to increase the share of land in pasture in the Fort Cobb watershed. It would not fund buffer strips or no-till practices. Farmers and ranchers in the watershed who volunteer to enroll in the proposed program would receive cash incentives to convert some

cropland to pasture or maintain land already in pasture.

[**program_track**: B] The Program would provide funds to increase the share of land in buffer strips in the Fort Cobb watershed. It would not fund converting cropland to pasture or no-till practices. Farmers and ranchers in the watershed who volunteer to enroll in the proposed program would receive cash incentives to build buffer strips along streams.

[**program_track**: C] The Program would provide funds to increase the share of land in pasture and buffer strips in the Fort Cobb watershed. It would not fund no-till practices. Farmers and ranchers in the watershed who volunteer to enroll in the proposed program would receive cash incentives to build buffer strips along streams, convert some cropland to pasture, or maintain land already in pasture.

Program Benefits

Implementing this program would improve the water clarity of Fort Cobb Reservoir and the streams in the Fort Cobb watershed. The frequency of algae blooms in the Fort Cobb Reservoir would decrease by [RANDOMIZE **program_alg**: 25/50/75/100]%, and there would be significant and noticeable improvements in the abundance of fish and wildlife.

Program Costs

The program would cost money to implement. The state government does not have the money to pay for the program, so the funding would come from a one-time only tax payment of \$[RANDOMIZE **program_cost**: 2/5/10/20/30/60/90/120/150/200/250/500] per household. All of the tax money that is collected will be spent on increasing the amount of land in [**program_track**: A = pasture/**program_track**: B = buffer strips/**program_track**: C = pasture and buffer strips].

Your Choice

Before you decide how you would vote on the Fort Cobb Watershed Water Quality Improvement Program, keep in mind that your vote would only affect the Fort Cobb watershed in Oklahoma, which is only one of many watersheds in the state.

If the majority of Oklahomans vote in favor of the program, your household would have to pay \$[**program_cost**], at the time you pay your income taxes for one year only. This would leave you with \$[**program_cost**] less to spend on everyday products or other environmental programs.

program_vote: With this in mind, how would you vote on the Fort Cobb Watershed Water Quality Improvement Program?

- 1 – I would vote in favor of the program
- 0 – I would vote against the program

program_vote_plcymkrs: On a scale from zero to ten, where zero means *not at all likely* and ten means *extremely likely*, how likely do you think it is that policymakers will consider the results of this survey when making decisions about funding water quality improvements?

- 0 - Not at all likely
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Extremely likely

program_vote_majority: How do you think the majority of Oklahomans would vote on the Fort Cobb Watershed Water Quality Improvement Program?

- 1 – The majority would vote in favor of the program
- 0 – The majority would vote against the program

-----End Web pg -----

The next several questions are about important issues facing policy makers and the people of Oklahoma today.

For each of the following issues, please rate your level of concern using a scale from zero to ten, where zero means you are *not at all concerned* and ten means you are *extremely concerned*. How concerned are you about each of the following? [RANDOMIZED TABLE]

cncrn_secur: Threats to the security of people in Oklahoma, including crime and terrorism

- 0 - Not at all Concerned
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Extremely Concerned

cncrn_health: The delivery and cost of healthcare in Oklahoma

- 0 - Not at all Concerned
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Extremely Concerned

cncrn_ernrgy: The availability and cost of energy in Oklahoma

- 0 - Not at all Concerned
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Extremely Concerned

cncrn_trns: The cost of transportation fuel in Oklahoma, such as gasoline and diesel

- 0 - Not at all Concerned
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Extremely Concerned

cncrn_tax: The cost of state and local taxes in Oklahoma

- 0 - Not at all Concerned
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - Extremely Concerned

cncrn_edu: The cost and quality of education in Oklahoma

0 - Not at all Concerned

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

10 - Extremely Concerned

cncrn_econ: The state of the Oklahoma economy, including jobs and inflation

0 - Not at all Concerned

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

10 - Extremely Concerned

cncrn_natres: The preservation of natural resources in Oklahoma

0 - Not at all Concerned

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

10 - Extremely Concerned

-----End Web pg -----

As you may know, the issue of global climate change has been the subject of public discussion over the last few years.

glbcc: In your view, are greenhouse gases, such as those resulting from the combustion of coal, oil, natural gas, and other materials, causing average global temperatures to rise?

- 0 - No
- 1 - Yes

-----End Web pg -----

glbcc_cert: On a scale from zero to ten, where zero means *not at all certain* and ten means *completely certain*, how certain are you that greenhouse gases are/are not [AUTOFILL “are” IF glbcc = 1; AUTOFILL “are not” IF glbcc = 0] causing average global temperatures to rise?

0 - Not at all certain

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

10 - Completely certain

glbcc_risk: On a scale from zero to ten, where zero means *no risk* and ten means *extreme risk*, how much risk do you think global warming poses for people and the environment?

0 - No risk

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

10 - Extreme risk

glbwrn_ok: In your view, is global warming causing the weather patterns in Oklahoma to change?

0 - No

- 1 - Yes
- 2 -- Don't know

-----End Web pg -----

The next few questions are about your life, your health, and your neighborhood.

Please indicate the extent to which you agree or disagree with the follow statements. [RANDOMIZE TABLE; DROP DOWN CHOICES FOR EACH PROMPT: “Strongly agree”, “Agree”, “Neither agree nor disagree”, “Disagree”, “Strongly disagree”]

group_fam: In my family, we try to advance family goals rather than the goals of individual family members.

group_wrk: At my current (or most recent) place of work, individuals pursue their own aspirations rather than the aspirations of the organization as a whole.

group_pol: In the U.S., governmental officials and other powerful people serve the common good rather than the interests of a few.

grid_fam: In my family, the people in charge decide what we do and how and when we do it; everyone else follows along.

grid_wrk: At my current (or most recent) place of work, managers encourage employees to make their own rules, schedules, and decisions.

grid_pol: In the U.S., people have little influence on governmental action; instead, governmental officials or other powerful people decide what the government does.

-----End Web pg -----

time_outside: How much time would you say you spent outdoors on a typical summer day?

- 0 - No time
- 1 - Less than 1 hour per day
- 2 - 1–2 hours per day
- 3 - 2–4 hours per day
- 4 - More than 4 hours per day

[SHOW QUESTION ONLY IF time_outside = 1, 2, 3, OR 4]

spent_outside: Is this time spent outdoors for work, for recreation, or both?

- 1 - Work
- 2 - Recreation
- 3 - Both

cmpr_time_outside: Overall, would you say that you spent more, less, or about the same amount of time outdoors *this summer* (June, July and August 2015) as compared to *previous summers*?

- 3 - More time
- 2 - About the same amount of time
- 1 - Less time

-----End Web pg -----

How frequently do you get information about the WEATHER from each of the following sources?

[DROP DOWN CHOICES FOR EACH PROMPT: “Several times a day”, “About once a day”, “Several times per week”, “About once per week”, “Less than

once per week”, “Never”]

wthr_info_paper: Newspapers

wthr_info_web: Non-government Internet websites (such as weather.com)

wthr_info_govweb: Government sponsored Internet websites (such as noaa.gov, Oklahoma Mesonet)

wthr_info_loctv: Local TV (television) news

wthr_info_cabtv: Cable TV (television) news (such as The Weather Channel)

wthr_info_radio: Radio

wthr_info_fam: Family, friends or colleagues

wthr_info_soc: Social Media, such as Facebook and Twitter

wthr_info_phone: Cell phone applications or automated text messages

wthr_info_othr: Other (please specify)

wthr_info_othr_spec: [VERBATIM]

-----End Web pg -----

Scholars have learned that information often influences the way in which people answer survey questions. With this in mind, we are interested in whether you are taking the time to read the text that precedes each question. So, in order to demonstrate that you have read this text, please ignore the question below and click on the blue dot.

dot_answer: Which of the following devices do you typically use to answer surveys on the Internet?

- 1 - A computer
- 2 - A tablet (like an iPad or a Kindle)
- 3 - A smart phone (like an Android phone or iPhone)

-----End Web pg -----

Thank you very much for your participation in the “Oklahoma Weather, Society and Government Survey” survey! We greatly appreciate your time and attention. As a token of our appreciation, you will be receiving a \$10 gift card in the mail within the next few weeks.

confirm_zip: Zip: [AUTOFILL ZIP; REQUIRED 5-DIGIT NUMERIC]

-----End Web pg -----

NOTES: This dataset includes the following that do *not* correspond with questions on the instrument:

wave_id: wave id

click_bluedot: 1 if participant clicked blue dot instead of responding to dot_answer

begin_datetime: date/time respondent started the survey (Unix time)

end_datetime: date/time respondent completed the survey (Unix time)

time_taken: time between survey commencement and completion (minutes)

is_statewide: 1 if participant is in the statewide sample

is_kiamichi: 1 if participant lives within the Kiamichi watershed study region

is_payne: 1 if participant lives within the Payne Co./Cimarron watershed study region

is_washita: 1 if participant lives within the Washita watershed study region

is_canadian: 1 if participant lives within the North Canadian watershed study region

is_okcity: 1 if participant lives within the Oklahoma City watershed study region