

2018 Oklahoma Weather, Society and Government Survey: M-SISNet Wave 18 (Spring 2018)

n = 2,246; June 4—July 23, 2018; Median Time = 33 min

You are invited to participate in research about perceptions of weather in Oklahoma and views on government policies and societal issues, to understand how those perceptions and views might shape Oklahomans' uses of water and energy.

If you agree to participate, you will respond to an Internet survey that should take about 30 minutes to complete.

There are no risks or benefits.

If you participate, you will receive a \$10 gift card after you complete the survey.

Your participation is voluntary and your responses will be de-identified before they are shared for research purposes or published.

Even if you choose to participate now, you may stop participating at any time and for any reason. Your data may be used in future research studies, unless you contact me to withdraw your data.

Data are collected via an online survey system that has its own privacy and security policies for keeping your information confidential.

If you have questions about this research, please contact:

Dr. Hank Jenkins-Smith
Center for Risk and Crisis Management
University of Oklahoma
(405) 325-1720 or crcm@ou.edu

You can also contact the University of Oklahoma – Norman Campus Institutional Review Board at 405-325-8110 or irb@ou.edu with questions, concerns or complaints about your rights as a research participant, or if you don't want to talk to the researcher.

By answering the survey questions, I agree to participate in this research. Please print this page for your records.

consent: Do you agree to participate in this study?
[TWO RADIO BUTTONS SPACED FAR APART]

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: 05/22/2018

-----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!

[THE QUESTIONS ON THIS PAGE ARE PRE-POPULATED, WHERE AVAILABLE, WITH THE DATA THAT WAS COLLECTED DURING RECRUITMENT]

age: How old are you? [VERBATIM; REQUIRE NUMERIC]

-----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) 325-1720 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]

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

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 -----

income: Thinking specifically about the past 12 months, what was your annual household income from all sources?

\$ [VERBATIM; REQUIRE NUMERIC RESPONSE]

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

footage: What is the approximate square footage of your home?

[VERBATIM; REQUIRE NUMERIC RESPONSE] sq. ft.

-----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 -----

The next few questions ask you to compare weather patterns *this spring* (March, April and May 2018) to weather patterns in *previous springs*.

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 spring* was more, less, or about the same amount as in *previous springs*?

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

ssn_tmp: In the area around where you live, would you say that *this spring* has been warmer, cooler, or about the same as *previous springs*?

- 3 - Warmer
- 2 - About the same
- 1 - Cooler

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

[IF **ssn_tmp** = 2]

ssn_tmp_same: You indicated that temperatures *this spring* have been about the same as temperatures in *previous springs*. If you had to guess, would you say that *this spring* was exactly the same, a little warmer, or a little cooler than *previous springs*?

- 3 - A little warmer
- 2 - Exactly the same
- 1 - A little cooler

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

[IF **ssn_tmp** = 3 OR **ssn_tmp_same** = 3]

ssn_tmp_wrm: If you had to guess, about how much warmer on average was *this spring* than *previous springs*? Please respond in degrees Fahrenheit.

- 0.5° F
- 1.0° F
- 1.5° F
- 2.0° F
- 2.5° F
- 3.0° F
- 3.5° F
- 4.0° F
- 4.5° F
- 5.0° F
- 5.5° F
- 6.0° F
- 6.5° F
- 7.0° F
- 7.5° F
- 8.0° F
- 8.5° F
- 9.0° F
- 9.5° F
- 10.0° F

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

[IF **ssn_tmp** = 1 OR **ssn_tmp_same** = 1]

ssn_tmp_cool: If you had to guess, about how much cooler on average was *this spring* than *previous springs*? Please respond in degrees Fahrenheit.

- 0.5° F
- 1.0° F
- 1.5° F
- 2.0° F
- 2.5° F
- 3.0° F
- 3.5° F
- 4.0° F
- 4.5° F
- 5.0° F
- 5.5° F
- 6.0° F

- 6.5° F
- 7.0° F
- 7.5° F
- 8.0° F
- 8.5° F
- 9.0° F
- 9.5° F
- 10.0° F

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

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

drghtfreq: 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

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

[IF **avgtmp** = 2]

avgtmp_same: You indicated that temperatures in the last three years have been about the same as temperatures in previous years. If you had to guess, would you say that the last three years were exactly the same, a little warmer, or a little cooler than previous years?

- 3 - A little warmer
- 2 - Exactly the same
- 1 - A little cooler

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

[IF **avgtmp** = 3 OR **avgtmp_same** = 3]

avgtmp_wrm: If you had to guess, about how much warmer on average were the last three years than previous years? Please respond in degrees Fahrenheit.

- 0.5° F
- 1.0° F
- 1.5° F
- 2.0° F
- 2.5° F
- 3.0° F
- 3.5° F
- 4.0° F
- 4.5° F
- 5.0° F
- 5.5° F
- 6.0° F
- 6.5° F
- 7.0° F
- 7.5° F
- 8.0° F
- 8.5° F
- 9.0° F
- 9.5° F
- 10.0° F

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

[IF **avgtmp** = 1 OR **avgtmp_same** = 1]

avgtmp_cool: If you had to guess, about how much cooler on average were the last three years than previous years? Please respond in degrees Fahrenheit.

- 0.5° F
- 1.0° F
- 1.5° F
- 2.0° F
- 2.5° F
- 3.0° F
- 3.5° F
- 4.0° F

- 4.5° F
- 5.0° F
- 5.5° F
- 6.0° F
- 6.5° F
- 7.0° F
- 7.5° F
- 8.0° F
- 8.5° F
- 9.0° F
- 9.5° F
- 10.0° F

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

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

- evntexp_wind:** Extreme high winds
- evntexp_drgh:** Drought
- evntexp_rain:** Extreme rainstorms
- evntexp_flood:** Floods
- evntexp_torn:** Tornadoes
- evntexp_fire:** Wildfires
- evntexp_ethqk:** Earthquakes
- evntexp_cold:** Extreme cold temperatures
- evntexp_heat:** Extreme hot temperatures
- evntexp_snow:** Extreme snowstorms
- evntexp_ice:** Extreme ice storms
- evntexp_hail:** Hail storms

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

In the area around where you live, would you say that the following kinds of events have happened more frequently, less frequently, or with about the same frequency this spring as in previous springs? [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_cold: Extreme cold temperatures

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_snow: Extreme snowstorms

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfreq_ice: Extreme ice storms

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 the following kinds of events will happen more frequently, less frequently, or with about the same frequency over the *next few springs* as they have *this spring*? [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

evntfutfreq_drght: Drought

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_rain: Extreme rainstorms

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_flood: Floods

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_torn: Tornadoes

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_fire: Wildfires

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_ethqk: Earthquakes

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_cold: Extreme cold temperatures

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_heat: Extreme hot temperatures

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_snow: Extreme snowstorms

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_ice: Extreme ice storms

3 - More frequently

2 - With about the same frequency

1 - Less frequently

evntfutfreq_hail: Hail storms

3 - More frequently

2 - With about the same frequency

1 - Less frequently

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

Now, we have a few questions about wildfires in Oklahoma. By wildfire, we mean an out of control and inadvertent fire that starts outdoors in grass, trees, or other combustible vegetation. Wildfires are different from other outdoor fires, such as prescribed burns, that are intentionally set under controlled conditions. They are also different than indoor fires that start within a structure, rather than outdoors.

fire_risk: On a scale from zero to ten, where zero means *no risk* and ten means *extreme risk*, how much risk do you think wildfires pose to people and structures on your property?

- 0 – No risk
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 – Extreme risk

fire_risk_20yrs: Over the last 20 years, would you say that the risk of wildfire to people and structures on your property has increased, stayed about the same, or decreased?

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

fire_cause: To the best of your knowledge, what causes most of the wildfires that we experience in Oklahoma?

- 1 - Arson
- 2 - Lightning or other natural causes
- 3 - Industrial accidents
- 4 - Prescribed burns that escape and spread
- 5 - Accidents starting from BBQs, campfires, cigarettes, car mufflers, etc.

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

[NOTE: LARGER FONT] In Oklahoma, the risk of wildfire to a house or structure is partially dependent on the landscape that surrounds that house or structure. To measure your thoughts about wildfire risk, we would like you to compare several pairs of landscapes to one another. In some cases, we may present the same landscape, but a different comparison.

First, we would like you to compare two houses and their surrounding landscapes and indicate which is

more susceptible to wildfire. There will be *four pairs* of these houses and surrounding landscapes.

To the best of your knowledge, which of the following houses and surrounding landscapes are *most* susceptible to wildfires? [click on text or image]. [RANDOMIZED TABLE W/TEXT AND PICTURE: 1 INDICATES SELECTED. HEADER (medium font size) SHOULD READ “PAIR 1 of 4”, “PAIR 2 of 4”, “PAIR 3 of 4”, “PAIR 4 of 4”]

fire_most_grass: House in a rural area surrounded by grassland and open range

fire_most_cedar: House in a rural area surrounded by a mature red cedar forest

fire_most_oak: House in a rural area surrounded by a mature oak forest

fire_most_urban: House in an urban area surrounded by trees along the street and yard

fire_most_crop: House in a rural area surrounded by wheat fields

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

[NOTE: LARGER FONT] Now, we would like you to compare two houses and their surrounding landscapes and indicate which is *less* susceptible to wildfire. There will also be *four pairs* of these houses and surrounding landscapes.

To the best of your knowledge, which of the following houses and surrounding landscapes are *least* susceptible to wildfires? [click on text or image].

[RANDOMIZED TABLE W/TEXT AND PICTURE: 1 INDICATES SELECTED. HEADER (medium font size) SHOULD READ “PAIR 1 of 4”, “PAIR 2 of 4”, “PAIR 3 of 4”, “PAIR 4 of 4”]

fire_least_grass: House in a rural area surrounded by grassland and open range

fire_least_cedar: House in a rural area surrounded by a mature red cedar forest

fire_least_oak: House in a rural area surrounded by a mature oak forest

fire_least_urban: House in an urban area surrounded by trees along the street and yard

fire_least_crop: House in a rural area surrounded by wheat fields

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

Have you taken any of the following steps to manage the risk of wildfire to people and structures on your property? Please indicate all that apply. [RANDOMIZED LIST (EXCEPT “Something else”): 1 INDICATES SELECTED]

fire_mgmt_roof: Installed fire resistant roofing or siding

fire_mgmt_tree: Removed trees or vegetation from around structures

fire_mgmt_frdis: Interacted with a local rural fire district

fire_mgmt_lines: Installed fire lines around the property or structures

fire_mgmt_othr: Something else (please specify)

fire_mgmt_othr_spec: [VERBATIM]

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

fire_risk_st_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 [fire_risk_rand: “managing,” “regulating”] the risks associated with wildfires? [RANDOM ASSIGNMENT OF WORD]

0 - Not at all involved

1

2

3

4

5

6

7

8

9

10 - Extremely involved

fire_risk_fed_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 United States government should be in

[fire_risk_rand: “managing,” “regulating”] the risks associated with wildfires? [RANDOM ASSIGNMENT OF WORD]

0 - Not at all involved

1

2

3

4

5

6

7

8

9

10 - Extremely involved

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

As you may know, Oklahoma has experienced multiple wildfires this year. Since April 2018, the wildfires have burned more than 450,000 acres of land and caused at least 2 fatalities in the state.

fire_sev: If you had to guess, would you say that wildfires in Oklahoma have been more severe, less severe, or about as severe *this year* as wildfires in *previous years*?

3 - More severe

2 - About as severe

1 - Less severe

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

The most significant wildfires so far this year have been the Rhea Fire and the 34 Complex Fire, which together have burned nearly 350,000 acres of land in northwest Oklahoma, destroying dozens of homes, and killing approximately 1,100 head of cattle.

fire_recall: Prior to reading this information, do you recall hearing about the Rhea Fire or the 34 Complex Fire?

0 - No

1 - Yes

2 - Don't know

If you are interested in learning more about these wildfires, please click on either of the following links to news articles. [links will open in new window] [RANDOMIZE ORDER OF LINKS]

click_firelinkNYT: “In Fire-Scorched Oklahoma, Help Comes One Bale at a Time” (New York Times) <https://www.nytimes.com/2018/04/29/us/oklahoma-wildfires-hay-cattle.html> [0 = NOT CLICKED; 1 = CLICKED]

click_firelinkAGWEB: “Oklahoma Wildfires Cause \$26 Million in Damages for Cattle Ranchers” (Ag Web) <https://www.agweb.com/article/oklahoma-wildfires-cause-26-million-in-damages-for-cattle-ranchers/> [0 = NOT CLICKED; 1 = CLICKED]

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

Estimates suggest that the Rhea Fire and the 34 Complex Fire have caused \$26 million in damages to cattle operations. These damages include lost animals, damaged fencing, or loss of food sources such as grass and hay, as well as equipment and structures related to cattle ranching. Farmers and ranchers affected by these fires must now recover from this disaster by rebuilding or replacing lost property, structures, and animals. The recovery from these fires may require assistance/funding from a mix of sources.

We want to know what percentage of the assistance needed to fully recover from the Rhea Fire and the 34 Complex Fire you believe should come from each of

these five primary sources. The percentages you indicate should sum to 100. [RANDOMIZE OPTION ORDER]

rcvr_fed: What percentage should come from **federal agencies**? [VERBATIM]

rcvr_st: What percentage should come from **state agencies**? [VERBATIM]

rcvr_loc: What percentage should come from **local agencies**? [VERBATIM]

rcvr_chrt: What percentage should come from **religious or charitable groups**, such as Southern Baptist Disaster Relief or Red Cross? [VERBATIM]

rcvr_ind: What percentage should come from **relief funding organized by industry groups**, such as Oklahoma Cattlemen's Foundation, Oklahoma Farming and Ranching Foundation, or Oklahoma Farmers Union Foundation? [VERBATIM]

rcvr_ins: What percentage should come from **private insurance payments** to the affected farmer or rancher? [VERBATIM]

rcvr_oop: What percentage should come from **out-of-pocket costs** paid by the farmer or rancher? [VERBATIM]

-----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 [**ethqk_risk_rand:** "managing," "regulating"] the risks associated with earthquakes? [RANDOM ASSIGNMENT OF WORD]

0 - Not at all involved

1

2

3

4

5

6

7

8

9

10 - Extremely involved

ethqk_risk_fed_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 United States government should be in [**ethqk_risk_rand:** "managing," "regulating"] the risks associated with earthquakes? [RANDOM ASSIGNMENT OF WORD]

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 and energy use at your residence.

[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; REQUIRE NUMERIC RESPONSE]

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 spring* as you did *last spring*?

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

wtr_short: Over the *past few months* (March, April and May 2018), 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 indicate 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 spring*, 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 spring*? Please indicate all that apply. [RANDOMIZED LIST (EXCEPT “other”): 1 INDICATES SELECTED]

- wtr_steps_flush:** Installed a low-volume or low-flow 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 spring* (March, April and May 2018)? Please indicate all that apply.

- enrgy_sourc_elec:** Electricity
- enrgy_sourc_natgas:** Natural Gas
- enrgy_sourc_prop:** Propane or Liquefied Petroleum Gas

enrgy_sourc_wood: Wood
enrgy_sourc_geo: Geothermal
enrgy_sourc_othr: Other (please specify)
enrgy_sourc_othr_spec: [VERBATIM]

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

[THIS PAGE ONLY DISPLAYED IF
enrgy_sourc_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; REQUIRE NUMERIC RESPONSE]

elec_bill_dk: Don't know/Not Applicable [CHECKBOX: 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 spring* as *last spring*?

3 - More

2 - About the same amount

1 - Less

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

0 - No

1 - Yes

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

[THIS PAGE ONLY DISPLAYED IF
enrgy_sourc_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; REQUIRE NUMERIC RESPONSE]

gas_bill_dk: Don't know/Not Applicable [CHECKBOX: 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 spring* as *last spring*?

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 spring*? Please indicate all that apply. [RANDOMIZED LIST (EXCEPT "other"): 1 INDICATES SELECTED]

enrgy_steps_lghts: Turned lights off

enrgy_steps_heat: Turned heat down/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_bulbs: Installed energy saving light bulbs

enrgy_steps_othr: Other (please specify)

enrgy_steps_othr_spec: [VERBATIM]

-----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]

cnrcrn_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

cnrcrn_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

cnrcrn_energ: 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

cnern_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

cnern_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

cnern_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

cnern_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

cnern_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 [REQUIRED]: 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

glbwrn_news: People get information about global warming in a number of ways. For example, some people talk to friends. Others go online or watch the news. Where would you say you get most of your information about global warming? Please provide as much detail as possible, such as the name of the website or news publication. [VERBATIM]

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

glbwrn_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 [glbwrn_risk_rand: RANDOMIZE ASSIGNMENT OF WORD managing OR regulating] the risks associated with global warming?

0 – Not at all involved
1
2
3
4
5
6
7
8
9
10 – Extremely involved

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

glbwrn_risk_fed_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 United States government should be in [glbwrn_risk_rand: RANDOMIZE ASSIGNMENT OF WORD managing OR regulating] the risks associated with global warming?

0 – Not at all involved
1
2
3
4
5
6
7
8
9
10 – Extremely involved

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

Do you support or oppose the following policies?
[RANDOM ORDER]

gcc_policy1: Set strict carbon dioxide emission limits on existing coal-fired power plants to reduce global warming and improve public health. Power plants would have to reduce their emissions and/or invest in renewable energy and energy efficiency. The cost of electricity to consumers and companies would likely increase.

1 - Strongly support
2 - Somewhat support
3 - Somewhat oppose
4 - Strongly oppose

gcc_policy2: Require fossil fuel companies to pay a carbon tax and use the money to reduce other taxes (such as income tax) by an equal amount.

1 - Strongly support
2 - Somewhat support
3 - Somewhat oppose
4 - Strongly oppose

gcc_policy3: Fund more research into renewable energy sources, such as solar and wind power.

1 - Strongly support
2 - Somewhat support
3 - Somewhat oppose
4 - Strongly oppose

gcc_policy4: Generate renewable energy (solar and wind) on public land in the U.S.

1 - Strongly support
2 - Somewhat support
3 - Somewhat oppose
4 - Strongly oppose

gcc_policy5: Provide tax rebates for people who purchase energy-efficient vehicles or solar panels.

- 1 - Strongly support
- 2 - Somewhat support
- 3 - Somewhat oppose
- 4 - Strongly oppose

gcc_policy6: Regulate carbon dioxide (the primary greenhouse gas) as a pollutant.

- 1 - Strongly support
- 2 - Somewhat support
- 3 - Somewhat oppose
- 4 - Strongly oppose

gcc_policy7: Require electric utilities to produce at least 20% of their electricity from wind, solar, or other renewable energy sources, even if it costs the average household an extra \$100 a year.

- 1 - Strongly support
- 2 - Somewhat support
- 3 - Somewhat oppose
- 4 - Strongly oppose

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

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

time_outside: How much time would you say you spent outdoors on a typical spring 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

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

[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 spring* (March, April and May 2018) as compared to *previous springs*?

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

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

hlth_status: In general, would you say your health is:

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

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

Using a scale from one to seven, where one means you *strongly disagree* and seven means you *strongly agree*, please respond to the following statements about your neighborhood or immediate surrounding area. [RANDOMIZED TABLE]

nghbrhd_deal: If there is a problem around here, the neighbors get together to deal with it.

- 1 - Strongly Disagree
- 2
- 3
- 4
- 5
- 6
- 7 - Strongly Agree

nghbrhd_close: This is a close-knit neighborhood/area.

- 1 - Strongly Disagree
- 2
- 3
- 4
- 5
- 6
- 7 - Strongly Agree

nghbrhd_care: When you get right down to it, no one in this neighborhood/area cares much about what happens to me.

- 1 - Strongly Disagree
- 2
- 3
- 4
- 5
- 6
- 7 - Strongly Agree

nghbrhd_not: People in this neighborhood/area generally do not get along with each other.

- 1 - Strongly Disagree
- 2
- 3
- 4
- 5
- 6
- 7 - Strongly Agree

nghbrhd_eyes: When I am away from home, I

know that my neighbors will keep their eyes open for possible trouble at my place.

- 1 - Strongly Disagree
- 2
- 3
- 4
- 5
- 6
- 7 - Strongly Agree

nghbrhd_help: If I needed emergency repairs at my residence, I could count on my neighbors to pitch in and help.

- 1 - Strongly Disagree
- 2
- 3
- 4
- 5
- 6
- 7 - Strongly Agree

-----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 -----

Now we would like to know about your GENERAL NEWS HABITS. About how frequently do you get information about current news events from the following sources: [RANDOMIZE WITHIN BLOCKS; 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”]

- news_fox:** Fox News
- news_cnn:** CNN
- news_msnbc:** MSNBC
- news_nyt:** The New York Times
- news_ok:** The Oklahoman
- news_tw:** The Tulsa World
- news_wsj:** The Wall Street Journal
- news_tv:** Local Television Stations (such as ABC, NBC, or CBS)
- news_npr:** Public Radio Stations (such as NPR)
- news_other:** Do you get the news from a source that is not on this list? If so, can you please give us the source?
- news_other_specify:** [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 -----

This is the final survey we anticipate sending out for the research project that uses responses from the Oklahoma Weather, Society and Government survey. We thank you for helping us with this study. You have now completed [AUTOFILL PAST + 1 FOR THIS SURVEY] surveys, and the information you have provided is essential to helping us understand how Oklahoma households like yours experience the weather.

- fut_res_interest:** The research team will continue to study Oklahomans’ perceptions on a variety of issues. If we begin a new research study, can we contact you to request your participation?
- 0 – No, do not contact me after this research project concludes.
- 1 – Yes, you may contact me if you begin a new research project.

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

We thank you very much for your participation in the Oklahoma Weather, Society and Government 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.

giftcard_selection: Please select the type of gift card you would most like to receive from the four options shown below. You will be able to change your selection each time you complete the survey. Please note, if you do not make a selection from the choices below, we will select a \$10 Walmart gift card for you.

- 1 - \$10 Walmart gift card
- 2 - \$10 7-Eleven gift card
- 3 - \$10 Sonic gift card
- 4 - \$10 Braum's gift card

To help us ensure that your gift card arrives quickly, please verify that our records are correct: [VERBATIM; AUTOFILLED WITH PRIOR DATA; EDITABLE]

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

confirm_county: What is the name of the county where you live? [DROP DOWN LIST OF ALL OKLAHOMA COUNTIES]

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

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

user_id: respondent id

wave_id: wave id

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

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