**User's Guide and Codebook**

**National Surveys on Energy and Environment (NSEE)**

**National Surveys on Energy and Environment Public Use Datasets:**

**Spring 2016**

# National Surveys on Energy and Environment Public Use Datasets:

# Spring 2016

## Summary

The National Surveys on Energy and Environment (NSEE), a core activity in CLOSUP's Energy and Environmental Policy Initiative, reflects a formal partnership between the Muhlenberg Institute of Public Opinion at Muhlenberg College and the Center for Local, State, and Urban Policy at the University of Michigan's Gerald R. Ford School of Public Policy. NSEE surveys include twice per year national opinion surveys on issues directly related to climate change, as well as other surveys conducted on a range of topics such as hydraulic fracturing ("fracking"), the Great Lakes, and wider issues of energy and environment. NSEE is co-directed by professor Barry Rabe at the University of Michigan, and professor Christopher Borick at Muhlenberg College. For more information on the collaboration between the University of Michigan and Muhlenberg College, please see the recent article from Muhlenberg Magazine. For more information about the NSEE, contact CLOSUP staff at 734-647-4091 or closup@umich.edu.

The Spring 2016 NSEE included longitudinal questions about belief in climate change, plus additional content related to perceptions of local weather, and more.

## Methodology

| Survey Methodology | |
|---|---|
| N | 768 (212 Land Line & 556 Cell Phone) |
| Margin of Error | +/- 4.0% |
| Fielding Dates | April 5, 2016 – April 26, 2016 |
| AAPOR RR3 Response Rate | 9% |
| Weighted by: Gender, Age, Race, Income, and Education | |

The results are based on a telephone survey of 768 adult (age 18 or older) residents of the United States between April 5 and April 26, 2016. Respondents were interviewed in English on both landlines (212) and cell phones (556) by the staff of the Muhlenberg College Institute of Public Opinion (MCIPO) in Allentown, Pennsylvania on the Institute's Computer Aided Telephone Interviewing (CATI) system. Both the landline and cell phone samples were provided by the Marketing Systems Group (MSG), Horsham, Pennsylvania. Both landline and cell phones were chosen randomly from sampling frames of United States landline and cell numbers provided by MSG.

With a randomly selected sample of 768 respondents the margin of error for the surveys is ±4% at a 95% level of confidence. Margins of error for questions with smaller sample sizes will be larger. In addition to sampling error, one should consider that question wording and other fielding issues can introduce error or bias into survey results. The sample data has been weighted by age, race, educational attainment, income, and gender to reflect 2015 population parameters for these factors provided by the United States Census Bureau. The calculation of sampling error takes into account design effects due to the weighting identified above. In order to reach a representative sample of adult Americans both landlines and cell phones are called up to 10 times. The response rate for this survey as calculated using the American Association of Public Opinion Research (AAPOR) RR3 formula is 9%. The instrument was designed by Christopher Borick of Muhlenberg College, Barry Rabe of the University of Michigan, and Sarah Mills of the University of Michigan. For more detailed information on the methods employed please contact the MCIPO at 484-664-3444 or email Dr. Borick at cborick@muhlenberg.edu.

## Funding and Financial Disclosure

## Variable Naming

Rather than using variables names based on question number, the NSEE datasets use a longitudinal variable naming scheme, to facilitate longitudinal analysis. Many questions have been asked in multiple waves of the NSEE, making it a valuable source of longitudinal public-opinion data on climate change and energy policy. Consult the NSEE Crosswalk to see which questions have been asked in prior and subsequent waves of the NSEE. Variable names include two parts, a subject category for the question, and a description of the contents of the question. When a question has been asked with the same text and response options over multiple waves, the same variable name will be used in each dataset. Where there have been slight changes in question wording, the variable name will include a version number (v1, v2, etc., appended to the variable name). In the single wave NSEE datasets, variables are listed in the order that they were asked.

# LIST OF VARIABLES

| Variable | Label |
|---|---|
| RespNumb | Respondent Number |
| SAMPLE | Type of Sample |
| VERSION | Version of Survey |
| demog_age_list | Age: by category |
| demog_state | State of residence |
| demog_state_region | Region of country |
| weather_pastwinter | How would you describe the overall weather in your area this past winter |
| weather_snow | Which best describes the amount of snow in your area this past winter |
| weather_pastsummer_v2 | How would you describe the overall weather in your area this past summer |
| weather_today | In general how would you describe the overall weather in your area today |
| gw_belief | Is there solid evidence avg temp on earth has been warming in past 4 decades |
| believer_confidence | How confident are you that the average temperature on earth is increasing |
| believer_cause | Is the earth warming because of human activity or natural patterns |
| believer_factor_open | Belief factor: primary factor OPEN ENDED |
| believer_factor_open_coded | Belief factor: primary factor OPEN ENDED coded |
| believer_factor_glaciers | Belief factor: Declining glaciers & polar ice |
| believer_factor_warmer | Belief factor: warmer temps in your area |
| believer_factor_models | Belief factor: computer models that indicate the earth is getting warmer |
| believer_factor_hurricane | Belief factor: Strength of US hurricanes |
| believer_factor_mildwint | Belief factor: milder winters in your area |
| believer_factor_polarbrs | Belief factor: declining polar bears & penguins |
| believer_factor_droughts | Belief factor: Severe droughts across US |
| believer_factor_extremes | Belief factor: Extreme weather |
| nonbeliever_confidence | How confident are you that the average temperature on earth is NOT increasing |
| nonbeliever_factor_open | Nonbelief factor: primary factor OPEN ENDED |
| nonbeliever_factor_open_coded | Nonbelief factor: primary factor OPEN ENDED coded |
| nonbeliever_factor_weath | Nonbelief factor: Personal observations of weather in area |
| nonbeliever_factor_scievid | Nonbelief factor: Scientific evidence disproves existence of GW |
| nonbeliever_factor_distort | Nonbelief Factor: Reports that scientists distort data about GW |
| weather_extremes | Is weather in the US getting more or less extreme |
| weather_gwimpact | How likely is it that weather in the US is influenced by GW |
| demog_race | Race |
| demog_relig | Religious affiliation |
| demog_relig_evang | Religious affiliation: evangelical Christian |
| demog_edu | Highest level of education |
| demog_news | Primary source for national & world news |
| demog_polparty | Political party affiliation |
| demog_polviews | Political beliefs: conservative to liberal |
| demog_income | Family income |
| demog_gender | Gender: not asked; assessed by interviewer |

DATE                          Date and Time of Interview
TotalWeight                   Total Weight

# National Surveys on Energy and Environment: Spring 2016 Data

## RespNumb – Respondent Number

Respondent Number

**Representation**

Numeric

**Decimal Positions**

2

**Role**

input

## SAMPLE – Type of Sample

Type of Sample

**Representation**

| | |
|---|---|
| c | cell |
| l | land |

**Role**

input

## VERSION – Version of Survey

Version of Survey

| | |
|---|---|
| A | Weather questions before gw_belief |
| B | Weather questions before weather_extremes |

**Role**

input

**CODEBOOK NOTE:**

This variable indicates whether the battery of questions on weather (weather_pastwinter, weather_snow, weather_pastsummer_v2, and weather_today) was asked before or after the questions on belief in global warming/nonbelief in global warming.

## demog_age_list - Age: by category

Age: by category

QUESTIONNAIRE TEXT: In which category does your current age fall?

|    |                       |
|---:|-----------------------|
| 1  | 18-29                 |
| 2  | 30-44                 |
| 3  | 45-64                 |
| 4  | 65 and older          |
| 5  | Refused but 18 or over |
| 98 | Not sure              |
| 99 | Refused (terminate)   |

**Role**
input


## demog_state - State of residence

State of residence

QUESTIONNAIRE TEXT: What state do you currently reside in?

**Type**
Text

**Role**
input


## region - States coded to regions

States coded to regions

|    |           |
|---:|-----------|
| 1  | Northeast |
| 2  | South     |
| 3  | Midwest   |
| 4  | West      |
| 99 | Refused   |

**Role**
input

**CODEBOOK NOTE:**

States were coded into regions as follows:

Northeast (1)

ME,NH,VT,MA,RI,CT,NY,PA,NJ

South (2)

MD,DE,VA,NC,SC,GA,FL,WV,KY,TN,AL,MS,LA,AR,OK,TX,DC

Midwest (3)

OH,IN,IL,IA,WI,MN,MI,MO,NE,ND,SD,KS

West (4)

HI,AK,CA,OR,WA,MT,WY,CO,NM,AZ,UT,NV,ID

# weather_pastwinter - How would you describe the overall weather in your area this past winter

How would you describe the overall weather in your area this past winter

QUESTIONNAIRE TEXT: In general how would you describe the overall weather in your area this past winter? Would you say it was:

|    |                          |
|----|--------------------------|
| 1  | A lot warmer than usual  |
| 2  | Slightly warmer than usual |
| 3  | Slightly cooler than usual |
| 4  | A lot cooler than usual  |
| 5  | About the same as usual  |
| 98 | Not sure                 |
| 99 | Refused                  |

**Role**
input

**CODEBOOK NOTE:**
The battery of weather questions (weather_pastwinter, weather_snow, weather_pastsummer_v2, and weather_today) were asked as a split sample. Half of respondents were asked the question after demog_state, and the other half were asked the question immediately before weather_extremes. The variable VERSION shows which placement of weather_winter to weather_today applied for each respondent.

# weather_snow - Which best describes the amount of snow in your area this past winter

Which best describes the amount of snow in your area this past winter

QUESTIONNAIRE TEXT: Which of the following best describes the amount of snow your area received this past winter? My area received:

|   |                             |
|---|-----------------------------|
| 1 | A lot more snow than usual  |
| 2 | A little more snow than usual |
| 3 | A little less snow than usual |

| | | |
|---|---|---|
| | 4 | A lot less snow than usual |
| | 5 | About the same as usual |
| | 6 | Area doesn't receive snow |
| | 98 | Not sure |
| | 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The battery of weather questions (weather_pastwinter, weather_snow, weather_pastsummer_v2, and weather_today) were asked as a split sample. Half of respondents were asked the question after demog_state, and the other half were asked the question immediately before weather_extremes. The variable VERSION shows which placement of weather_winter to weather_today applied for each respondent.

## weather_pastsummer_v2 - How would you describe the overall weather in your area this past summer

How would you describe the overall weather in your area this past summer

QUESTIONNAIRE TEXT: Now thinking back to last summer how would you describe the overall weather in your area. Would you say the weather last summer was:

| | | |
|---|---|---|
| | 1 | A lot warmer than usual |
| | 2 | Slightly warmer than usual |
| | 3 | Slightly cooler than usual |
| | 4 | A lot cooler than usual |
| | 5 | About the same as usual |
| | 98 | Not sure |
| | 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The battery of weather questions (weather_pastwinter, weather_snow, weather_pastsummer_v2, and weather_today) were asked as a split sample. Half of respondents were asked the question after demog_state, and the other half were asked the question immediately before weather_extremes. The variable VERSION shows which placement of weather_winter to weather_today applied for each respondent.

## weather_today - In general how would you describe the overall weather in your area today

In general how would you describe the overall weather in your area today

QUESTIONNAIRE TEXT: In general how would you describe the overall weather in your area TODAY? Would you say it is:

| | |
|---|---|
| 1 | A lot warmer than usual |
| 2 | Slightly warmer than usual |
| 3 | Slightly cooler than usual |
| 4 | A lot cooler than usual |
| 5 | About the same as usual |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The battery of weather questions (weather_pastwinter, weather_snow, weather_pastsummer_v2, and weather_today) were asked as a split sample. Half of respondents were asked the question after demog_state, and the other half were asked the question immediately before weather_extremes. The variable VERSION shows which placement of weather_winter to weather_today applied for each respondent.

## gw_belief - Is there solid evidence avg temp on earth has been warming in past 4 decades

Is there solid evidence avg temp on earth has been warming in past 4 decades

QUESTIONNAIRE TEXT: Now I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?

| | |
|---|---|
| 1 | Yes |
| 2 | No |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## believer_confidence - How confident are you that the average temperature on earth is increasing

How confident are you that the average temperature on earth is increasing

QUESTIONNAIRE TEXT: How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing?

| | |
|---:|:---|
| -9 | Not asked - not applicable |
| 1 | Very confident |
| 2 | Fairly confident |
| 3 | Not too confident |
| 4 | Not confident at all |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**SKIP PATTERN:**
Not asked unless gw_belief=1

# believer_cause - Is the earth warming because of human activity or natural patterns

Is the earth warming because of human activity or natural patterns

QUESTIONNAIRE TEXT: Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment?

| | |
|---:|:---|
| -9 | Not asked - not applicable |
| 1 | Human activity |
| 2 | Natural patterns |
| 3 | A combination (volunteered) |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**SKIP PATTERN:**
Not asked unless gw_belief=1

# believer_factor_open - Belief factor: primary factor OPEN ENDED

Belief factor: primary factor OPEN ENDED

QUESTIONNAIRE TEXT: What is the primary factor that has caused you to believe that temperatures on earth are increasing?

**Type**
Text

**Role**
input

# believer_factor_open_coded - Belief factor: primary factor OPEN ENDED coded

Belief factor: primary factor OPEN ENDED coded

| | |
|---|---|
| -9 | Not asked - not applicable |
| 1 | Melting Glaciers |
| 2 | Warmer Temps Observed |
| 3 | Weather Change |
| 4 | Scientific Research |
| 6 | Media Coverage |
| 7 | Declining Species |
| 8 | Human Activity |
| 9 | Natural Patterns |
| 10 | Not Sure/Other |
| 11 | Ocean/sea-level rise |
| 12 | Religious factors |
| 13 | Population growth |
| 14 | Growing season/plants |

**Role**
input

# believer_factor_glaciers - Belief factor: Declining glaciers & polar ice

Belief factor: Declining glaciers & polar ice

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Declining glaciers and polar ice throughout the globe

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
Not asked unless gw_belief=1

# believer_factor_warmer - Belief factor: warmer temps in your area

Belief factor: warmer temps in your area

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer:

Warmer temperatures in your area during recent years

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

## believer_factor_models - Belief factor: computer models that indicate the earth is getting warmer

Belief factor: computer models that indicate the earth is getting warmer

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Computer models that indicate the earth is getting warmer

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

## believer_factor_hurricane - Belief factor: Strength of US hurricanes

Belief factor: Strength of US hurricanes

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: The strength of hurricanes hitting the United States

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |

| | |
|---|---|
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

# believer_factor_mildwint - Belief factor: milder winters in your area

Belief factor: milder winters in your area

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Milder winters in your area

| | |
|---|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

# believer_factor_polarbrs - Belief factor: declining polar bears & penguins

Belief factor: declining polar bears & penguins

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Declining numbers of polar bears and penguins

| | | |
|---|---|---|
| -9 | Not asked - not applicable | |
| 1 | Very large | |
| 2 | Somewhat large | |
| 3 | Not too large | |
| 4 | No effect | |
| 98 | Not sure | |
| 99 | Refused | |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

## believer_factor_droughts - Belief factor: Severe droughts across US

Belief factor: Severe droughts across US

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Severe droughts in areas across the United States

| | | |
|---|---|---|
| -9 | Not asked - not applicable | |
| 1 | Very large | |
| 2 | Somewhat large | |
| 3 | Not too large | |
| 4 | No effect | |
| 98 | Not sure | |
| 99 | Refused | |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

## believer_factor_extremes - Belief factor: Extreme weather

Belief factor: Extreme weather

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer: Extreme weather events such as major storms and floods

| | |
|---|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which the believer_factor variables (excluding believer_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=1

## nonbeliever_confidence - How confident are you that the average temperature on earth is NOT increasing

How confident are you that the average temperature on earth is NOT increasing

QUESTIONNAIRE TEXT: How confident are you that the average temperatures on earth are NOT increasing?    Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is NOT increasing?

| | |
|---|---|
| -9 | Not asked - not applicable |
| 1 | Very confident |
| 2 | Fairly confident |
| 3 | Not too confident |
| 4 | Not confident at all |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## nonbeliever_factor_open - Nonbelief factor: primary factor OPEN ENDED

Nonbelief factor: primary factor OPEN ENDED

QUESTIONNAIRE TEXT: What is the primary factor that makes you believe that temperatures on earth are not increasing?

**Type**
Text

**Role**
input

## nonbeliever_factor_open_coded - Nonbelief factor: primary factor OPEN ENDED coded

Nonbelief factor: primary factor OPEN ENDED coded

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Personal Observations |
| 2 | Natural Patterns |
| 3 | Lack of Evidence |
| 5 | Evidence Disproves |
| 7 | Political Factors |
| 8 | No Particular Reason |
| 9 | Not Sure/Other |

**Role**
input

## nonbeliever_factor_weath - Nonbelief factor: Personal observations of weather in area

Nonbelief factor: Personal observations of weather in area

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring: Your personal observations of weather in your area

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which nonbeliever_factor variables (excluding nonbeliever_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=2

## nonbeliever_factor_scievid - Nonbelief factor: Scientific evidence disproves existence of GW

Nonbelief factor: Scientific evidence disproves existence of GW

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring: Scientific evidence that disproves the existence of global warming.

| | |
|---:|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which nonbeliever_factor variables (excluding nonbeliever_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=2

## nonbeliever_factor_distort - Nonbelief Factor: Reports that scientists distort data about GW

Nonbelief Factor: Reports that scientists distort data about GW

QUESTIONNAIRE TEXT: Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring.    For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring: Reports that climate scientists have distorted data to demonstrate that global warming is occurring.

| | |
|---|---|
| -9 | Not asked - not applicable |
| 1 | Very large |
| 2 | Somewhat large |
| 3 | Not too large |
| 4 | No effect |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

**CODEBOOK NOTE:**
The order in which nonbeliever_factor variables (excluding nonbeliever_factor_open) were asked was rotated.

**SKIP PATTERN:**
not asked unless gw_belief=2

## weather_extremes - Is weather in the US getting more or less extreme

Is weather in the US getting more or less extreme

QUESTIONNAIRE TEXT: Now thinking about weather across the country, would you say weather in the US has been getting more extreme, less extreme or about the same?

| | |
|---|---|
| 1 | More extreme |

| | |
|---:|:---|
| 2 | Less extreme |
| 3 | About the same |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## weather_gwimpact - How likely is it that weather in the US is influenced by GW

How likely is it that weather in the US is influenced by GW

QUESTIONNAIRE TEXT: How likely is it that weather in the US is influenced by global warming?

| | |
|---:|:---|
| 1 | Very likely |
| 2 | Somewhat likely |
| 3 | Not likely |
| 4 | Not likely at all |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## demog_race - Race

Race

QUESTIONNAIRE TEXT: Finally a few questions about yourself. Which of the following categories best describes your racial identity?    Are you...

| | |
|---:|:---|
| 1 | White/Caucasian |
| 2 | African-American |
| 3 | Hispanic |
| 4 | Latino |
| 5 | Asian |
| 6 | Native American |
| 7 | Mixed race |
| 8 | Other |
| 9 | Hispanic/Latino |
| 10 | Mixed race and other |

**Role**
input

**CODEBOOK NOTE:**

In order to protect respondent confidentiality, CLOSUP recoded demog_race as follows:

- 3 "Hispanic" and 4 "Latino" were combined into 9 "Hispanic/Latino"
- 6 "Native American", 7 "Mixed race", and 8 "Other" were combined into 10 "Mixed race and other".

The original values of demog_race are not available to secondary data users.

# demog_relig - Religious affiliation

Religious affiliation

QUESTIONNAIRE TEXT: Which of the following categories best describes your religious affiliation?    Are you...

| | |
|---|---|
| 1 | Protestant |
| 2 | Catholic |
| 3 | Jewish |
| 4 | Muslim |
| 5 | Hindu |
| 6 | Other |
| 7 | Atheist |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

# demog_relig_evang - Religious affiliation: evangelical Christian

Religious affiliation: evangelical Christian

QUESTIONNAIRE TEXT: Would you describe yourself as an evangelical Christian?

| | |
|---|---|
| -9 | Not asked - not applicable |
| 1 | Yes |
| 2 | No |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

# demog_edu - Highest level of education

Highest level of education

QUESTIONNAIRE TEXT: What is your highest level of education?

|    |                                   |
|----|-----------------------------------|
| 1  | Less than HS graduate             |
| 2  | HS Graduate                       |
| 3  | Some college or technical school  |
| 4  | College    graduate               |
| 5  | Grad or professional degree       |
| 98 | Not sure                          |
| 99 | Refused                           |

**Role**
input

# demog_news - Primary source for national & world news

Primary source for national & world news

QUESTIONNAIRE TEXT: Which of the following is your primary source for national and world news?

|    |                      |
|----|----------------------|
| 1  | Television           |
| 2  | Newspapers           |
| 3  | Talk radio programs  |
| 4  | Radio news programs  |
| 5  | The internet         |
| 6  | Other                |
| 98 | Not sure             |
| 99 | Refused              |

**Role**
input

# demog_polparty - Political party affiliation

Political party affiliation

QUESTIONNAIRE TEXT: Which of the following best describes your political party affiliation?

| | |
|---:|---|
| 1 | Democrat |
| 2 | Republican |
| 3 | Other party |
| 4 | Independent |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## demog_polviews - Political beliefs: conservative to liberal

Political beliefs: conservative to liberal

QUESTIONNAIRE TEXT: Which of the following best describes your political beliefs?

| | |
|---:|---|
| 1 | Very conservative |
| 2 | Somewhat conservative |
| 3 | Moderate |
| 4 | Somewhat liberal |
| 5 | Very    liberal |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## demog_income - Family income

Family income

QUESTIONNAIRE TEXT: Which of the following categories best describes your family income? Is it...

| | |
|---:|---|
| 1 | Less than 20,000 |
| 2 | 20,000-40,000 |
| 3 | 40,000-60,000 |
| 4 | 60,000 - 80,000 |
| 5 | 80,000-100,000 |
| 6 | Over 100,000 |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## demog_gender - Gender: not asked; assessed by interviewer

Gender: not asked; assessed by interviewer

| | |
|---|---|
| 1 | Male |
| 2 | Female |
| 98 | Not sure |
| 99 | Refused |

**Role**
input

## DATE - Date and Time of Interview

Date and Time of Interview

**Type**
Text

**Role**
input

## TotalWeight - Total Weight

Total Weight

**Type**

Numeric

**Decimal Positions**

2

**Role**
input

**CODEBOOK NOTE:**

The data has been weighted by age, race, educational attainment, income and gender to reflect population parameters for these factors provided by the United States Census Bureau.

## National Surveys on Energy and the Environment (NSEE)
## Spring 2016
## FINAL INSTRUMENT


Hello.  My name is _____ and I'm a student at Muhlenberg College. We are conducting a research project regarding environmental issues in the United States.  Would you be able to help us by answering a few questions?

          Yes......................1
          No.......................2   (Thank and terminate)
          Not sure............98   (Thank and terminate)
          Refused............99   (Thank and terminate)

Q1.  Thank you. In which category does your current age fall? (READ LIST)

          18-34…………………………..1
          35-49…………………………..2
          50-64…………………………..3
          65 and older……………….…..4
          Not Sure (Volunteered)…………98
          Refused (Volunteered)…….……99

Q2.  What state do you currently reside in?

          (OPEN)  _____

          **(SPLIT SAMPLE – Half gets Q3 –Q6 here; Half gets these questions after Q23)**

Q3A.  In general how would you describe the overall weather in your area this past winter? Would you say it was:

          A LOT warmer than usual...................................1
          SLIGHTLY warmer than usual...........................2
          SLIGHTLY cooler than usual ............................3
          A LOT cooler than usual ...................................4
          Or about the same as usual? ..............................5
          Not Sure (Volunteered) .....................................98
          Refused (Volunteered........................................99

Q4A. Which of the following best describes the amount of snow your area received this past winter? My area received:

A LOT more snow than in a usual year........................ 1
A LITTLE more snow than in a usual year ................. 2
A LITTLE less snow than in a usual year ................... 3
A LOT less snow than in a usual year ......................... 4
About the same amount of snow as a usual year ......... 5
Or my area doesn't receive snow ................................ 6
Not sure (Volunteered) ............................................... 98
Refused (Volunteered) ................................................ 99

Q5A. Now thinking back to last summer how would you describe the overall weather in your area. Would you say the weather last summer was:

A LOT warmer than usual ................................... 1
SLIGHTLY warmer than usual ............................ 2
SLIGHTLY cooler than usual .............................. 3
A LOT cooler than usual ..................................... 4
Or about the same as usual? ............................... 5
Not sure (Volunteered) ........................................ 98
Refused (Volunteered) ......................................... 99

Q6A. In general how would you describe the overall weather in your area TODAY? Would you say it is:

A LOT warmer than usual ................................... 1
SLIGHTLY warmer than usual ............................ 2
SLIGHTLY cooler than usual .............................. 3
A LOT cooler than usual ..................................... 4
Or about the same as usual? ............................... 5
Not sure (Volunteered) ........................................ 98
Refused (Volunteered) ......................................... 99

**(END SPLIT SAMPLE – ALL RESPONDENTS)**

Q7. Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?

Yes .......................................... 1
No ........................................... 2    (SKIP TO Q19)
Not Sure (Volunteered) ........... 98  (SKIP TO Q24 FOR SAMP A; Q3B FOR SAMP B)
Refused (Volunteered) ............ 99  (SKIP TO Q24 FOR SAMP A; Q3B FOR SAMP B)

Q8. How confident are you that the average temperature on earth is increasing?  Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing?

> Very confident ......................................................1
> Fairly confident ...................................................2
> Not too confident.................................................3
> Not confident at all .............................................4
> Not Sure (Volunteered) ......................................98
> Refused (Volunteered) ........................................99

Q9. Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment?

> Human activity ...................................................1
> Natural patterns ..................................................2
> A combination (Volunteered)..............................3
> Not Sure (Volunteered) ......................................98
> Refused (Volunteered) ........................................99

Q10. What is the primary factor that has caused you to believe that temperatures on earth are increasing?

> (OPEN)_____

Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer. First, **[ROTATED LIST]**

|  | Very Large | Somewhat Large | Not Too Large | No Effect | Not Sure (Volunteered) | Refused (Volunteered) |
|---|---|---|---|---|---|---|
| Q11. Declining glaciers and polar ice throughout the globe | 1 | 2 | 3 | 4 | 98 | 99 |
| Q12. Warmer temperatures in your area during recent years | 1 | 2 | 3 | 4 | 98 | 99 |
| Q13. Computer models that indicate the earth is getting warmer | 1 | 2 | 3 | 4 | 98 | 99 |
| Q14. The strength of hurricanes hitting the United States | 1 | 2 | 3 | 4 | 98 | 99 |
| Q15. Milder winters in your area | 1 | 2 | 3 | 4 | 98 | 99 |
| Q16. Declining numbers of polar bears and penguins | 1 | 2 | 3 | 4 | 98 | 99 |
| Q17. Severe droughts in areas across the United States | 1 | 2 | 3 | 4 | 98 | 99 |
| Q18. Extreme weather events such as major storms and floods | 1 | 2 | 3 | 4 | 98 | 99 |

*******************SKIP TO Q24 FOR SAMP A; TO Q3B FOR SAMP B*******************

**ONLY THOSE WHO ANSWERED "NO" IN Q7 (i.e., do not believe temperatures are increasing)**

Q19. How confident are you that the average temperatures on earth are NOT increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is NOT increasing?

Very confident.....................................................1
Fairly confident ..................................................2
Not too confident.................................................3
Not confident at all .............................................4
Not Sure (Volunteered) .......................................98
Refused (Volunteered) ........................................99

Q20. What is the primary factor that makes you believe that temperatures on earth are not increasing?

(OPEN) _____

Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is NOT occurring. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is NOT occurring. First, **[ROTATED LIST]**

|  | Very Large | Somewhat Large | Not Too Large | No Effect | Not Sure (Volunteered) | Refused (Volunteered) |
|---|---|---|---|---|---|---|
| Q21. Your personal observations of weather in your area | 1 | 2 | 3 | 4 | 98 | 99 |
| Q22. Scientific evidence that disproves the existence of global warming | 1 | 2 | 3 | 4 | 98 | 99 |
| Q23. Reports that climate scientists have distorted data to demonstrate that global warming is occurring | 1 | 2 | 3 | 4 | 98 | 99 |

**\*\*\*SKIP TO Q24 FOR SAMPLE A; SAMPLE B CONTINUES WITH Q3B\*\*\***

Q3B. In general how would you describe the overall weather in your area this past winter? Would you say it was:

```
A LOT warmer than usual .....................................1
SLIGHTLY warmer than usual ...........................2
SLIGHTLY cooler than usual .............................3
A LOT cooler than usual .....................................4
Or about the same as usual? ...............................5
Not Sure (Volunteered) .......................................98
Refused (Volunteered ..........................................99
```

Q4B. Which of the following best describes the amount of snow your area received this past winter? My area received:

```
A LOT more snow than in a usual year ...................... 1
A LITTLE more snow than in a usual year ................ 2
A LITTLE less snow than in a usual year .................. 3
A LOT less snow than in a usual year ........................ 4
About the same amount of snow as a usual year ........ 5
Or my area doesn't receive snow ............................... 6
Not sure (Volunteered) ............................................... 98
Refused (Volunteered) ................................................ 99
```

Q5B.  Now thinking back to last summer how would you describe the overall weather in your area.
       Would you say the weather last summer was:

     A LOT warmer than usual....................................1
     SLIGHTLY warmer than usual...........................2
     SLIGHTLY cooler than usual ............................3
     A LOT cooler than usual ...................................4
     Or about the same as usual? ..............................5
     Not sure (Volunteered).......................................98
     Refused (Volunteered) .......................................99

Q6B.  In general how would you describe the overall weather in your area TODAY? Would you say it
       is:

     A LOT warmer than usual....................................1
     SLIGHTLY warmer than usual...........................2
     SLIGHTLY cooler than usual ............................3
     A LOT cooler than usual ...................................4
     Or about the same as usual? ..............................5
     Not sure (Volunteered).......................................98
     Refused (Volunteered) .......................................99


***FULL SAMPLE***

Q24.  Now thinking about weather across the country, would you say weather in the US has been getting
       more extreme, less extreme or about the same?

     More Extreme......................................................1
     Less Extreme ......................................................2
     About the Same ..................................................3
     Not sure (Volunteered).......................................98
     Refused (Volunteered) .......................................99

Q25.  How likely is it that weather in the US is influenced by global warming?

     Very likely........................................................... 1
     Somewhat likely ................................................2
     Not likely............................................................3
     Not at all likely..................................................4
     Not sure (Volunteered).......................................98
     Refused (Volunteered) .......................................99

Q26.  Finally a few questions about yourself. Which of the following categories best describes your racial identity?  Are you… **[READ LIST]**

>White/Caucasian...................................................1
>African-American..................................................2
>Hispanic...............................................................3
>Latino .................................................................4
>Asian....................................................................5
>Native American...................................................6
>Mixed race ..........................................................7
>Other ...................................................................8
>Not sure (Volunteered)........................................98
>Refused (Volunteered) .........................................99

Q27.  Which of the following categories best describes your religious affiliation?  Are you… **[READ LIST]**

>Protestant.............................................................1
>Catholic ...............................................................2   (SKIP TO Q29)
>Jewish..................................................................3   (SKIP TO Q29)
>Muslim.................................................................4   (SKIP TO Q29)
>Hindu...................................................................5   (SKIP TO Q29)
>Other Religion (Including agnostic).....................6   (SKIP TO Q29)
>or Atheist .............................................................7   (SKIP TO Q29)
>Not sure (Volunteered)........................................98  (SKIP TO Q29)
>Refused (Volunteered) .........................................99  (SKIP TO Q29)

Q28.  Would you describe yourself as an evangelical Christian?

>Yes.......................................................................1
>No ........................................................................2
>Not sure (Volunteered)........................................98
>Refused (Volunteered) .........................................99

Q29.  What is your highest level of education?  **[READ LIST]**

>Less than high school graduate ............................1
>High school graduate............................................2
>Some college or technical school .........................3
>College graduate..................................................4
>Graduate or professional degree..........................5
>Not sure (Volunteered)........................................98
>Refused (Volunteered) .........................................99

Q30. Which of the following is your primary source for national and world news? **[READ LIST]**

    Television ...........................................................1
    Newspapers .........................................................2
    Talk radio programs .............................................3
    Radio news programs ...........................................4
    The internet..........................................................5
    Other (Volunteered) ............................................6
    Not sure (Volunteered) .......................................98
    Refused (Volunteered) ........................................99

Q31. Which of the following best describes your political party affiliation? **[READ LIST]**

    Democrat .............................................................1
    Republican............................................................2
    Other party............................................................3
    Independent ..........................................................4
    Not sure (Volunteered).........................................98
    Refused (Volunteered) .........................................99

Q32. Which of the following best describes your political beliefs? **[READ LIST]**

    Very Conservative................................................1
    Somewhat Conservative ........................................2
    Moderate................................................................3
    Somewhat Liberal..................................................4
    Very Liberal ..........................................................5
    Not sure (Volunteered) .........................................98
    Refused (Volunteered) .........................................99

Q33. Which of the following categories best describes your family income? Is it… **[READ LIST]**

    Less than 20,000...................................................1
    20,000-40,000.......................................................2
    40,000-60,000.......................................................3
    60,000-80,000.......................................................4
    80,000-100,000.....................................................5
    Over 100,000 ........................................................6
    Not sure (Volunteered).........................................98
    Refused (Volunteered) .........................................99

Q34. What is the zip code of your current residence?

    (Response) _____

Q35. Thank you for your help with the survey. We appreciate your time. **[DO NOT ASK!]**

    Male.......................................................................1
    Female ...................................................................2
    Not Sure ................................................................98

# Center for Local, State, and Urban Policy
## UNIVERSITY OF MICHIGAN

# The National Surveys on Energy and Environment (NSEE)
# Spring 2016 Data Tables

| Survey Methodology | |
|---|---|
| N | 768 (212 Land Line & 556 Cell Phone) |
| Margin of Error | +/- 4% |
| Fielding Dates | April 5, 2016 - April 26, 2016 |
| AAPOR RR3 Response Rate | 9% |
| Data tables below are weighted by Gender, Age, Race, Income, and Education | |

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## Perceptions of US Weather

### Demographics

**Hello. My name is _____ and I'm a student at Muhlenberg College. We are conducting a research project regarding environmental issues in the United States. Would you be able to help us by answering a few questions?**

**Q1. Thank you. In which category does your current age fall? [READ LIST]**

|  |  | Total |
|---|---|---|
| Thank you. In which category does your current age fall? [READ LIST] | 18-29 | 25% |
|  | 30-44 | 25% |
|  | 45-64 | 30% |
|  | 65 and older | 20% |
|  | Refused, but stated they are 18 or over | <1% |
|  | N | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q2. What state do you currently reside in? [CODED INTO REGIONS]**

|  |  | Total |
|---|---|---|
| What state do you currently reside in? [CODED INTO REGIONS] | Northeast | 19% |
|  | South | 40% |
|  | Midwest | 22% |
|  | West | 20% |
|  | N | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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**Note: Questions 3 through 6 below were asked of respondents at two different places in the survey. Sample A received these questions after Question 2. Sample B received these questions after Question 23.**

**Q3. In general how would you describe the overall weather in your area this past winter? Would you say it was: [SPLIT SAMPLE]**

| | | Sample A | Sample B | Total |
|---|---|---|---|---|
| In general how would you describe the overall weather in your area this past winter? Would you say it was: [SPLIT SAMPLE] | A lot warmer than usual | 20% | 28% | 24% |
| | Slightly warmer than usual | 36% | 35% | 36% |
| | Slightly cooler than usual | 9% | 9% | 9% |
| | A lot cooler than usual | 6% | 8% | 7% |
| | About the same as usual | 26% | 18% | 22% |
| | Not Sure (Volunteered) | 2% | 2% | 2% |
| | *N* | 385 | 383 | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q4. Which of the following best describes the amount of snow your area received this past winter? My area received: [SPLIT SAMPLE]

| | | Sample A | Sample B | Total |
|---|---|---|---|---|
| Which of the following best describes the amount of snow your area received this past winter? My area received: [SPLIT SAMPLE] | A lot more snow than usual | 6% | 5% | 5% |
| | A little more snow than usual | 5% | 6% | 5% |
| | A little less snow than usual | 19% | 19% | 19% |
| | A lot less snow than usual | 27% | 27% | 27% |
| | About the same as usual | 12% | 15% | 13% |
| | Area does not receive snow | 32% | 26% | 29% |
| | Not Sure (Volunteered) | <1% | 3% | 2% |
| | *N* | 385 | 382 | 767 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q5. Now thinking back to last summer how would you describe the overall weather in your area. Would you say the weather last summer was: [SPLIT SAMPLE]

| | | Sample A | Sample B | Total |
|---|---|---|---|---|
| Now thinking back to last summer how would you describe the overall weather in your area. Would you say the weather last summer was: [SPLIT SAMPLE] | A lot warmer than usual | 19% | 15% | 17% |
| | Slightly warmer than usual | 23% | 23% | 23% |
| | Slightly cooler than usual | 13% | 14% | 14% |

|  |  | Sample A | Sample B | Total |
|---|---|---|---|---|
|  | A lot cooler than usual | 3% | 3% | 3% |
|  | About the same as usual | 40% | 41% | 41% |
|  | Not Sure (Volunteered) | 3% | 4% | 3% |
|  | N | 385 | 383 | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q6. In general how would you describe the overall weather in your area today? Would you say it is: [SPLIT SAMPLE]**

|  |  | Sample A | Sample B | Total |
|---|---|---|---|---|
| In general how would you describe the overall weather in your area today? Would you say it is: [SPLIT SAMPLE] | A lot warmer than usual | 14% | 13% | 13% |
|  | Slightly warmer than usual | 21% | 23% | 22% |
|  | Slightly cooler than usual | 17% | 19% | 18% |
|  | A lot cooler than usual | 4% | 6% | 5% |
|  | About the same as usual | 42% | 38% | 40% |
|  | Not Sure (Volunteered) | 1% | 2% | 2% |
|  | N | 385 | 383 | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q7. Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades?**

|  |  | Total |
|---|---|---|
| Next, I would like to ask you a few questions on the issue of global warming. From what you've read and heard. Is there solid evidence that the average temperature on earth has been getting warmer over the past four decades? | Yes | 66% |
|  | No | 15% |
|  | Not Sure (Volunteered) | 19% |
|  | N | 767 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q8. How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing?**

|  |  | Total |
|---|---|---|

| How confident are you that the average temperature on earth is increasing? Are you very confident, fairly confident, not too confident or not confident at all that the average temperature on earth is increasing? (Among those who said there is solid evidence of global warming) | Very Confident | 71% |
| | Fairly Confident | 24% |
| | Not Too Confident | 3% |
| | Not Confident At All | 1% |
| | Not Sure (Volunteered) | 1% |
| | N | 503 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q9. Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment?

| | | Total |
|---|---|---|
| Is the earth getting warmer because of human activity such as burning fossil fuels, or mostly because of natural patterns in the earth's environment? (Among those who said there is solid evidence of global warming) | Human Activity | 46% |
| | Natural Patterns | 16% |
| | A Combination (Volunteered) | 32% |
| | Not Sure (Volunteered) | 6% |
| | N | 503 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q10. What is the primary factor that has caused you to believe that temperatures on earth are increasing? [Coded open-end response]

| | | Total |
|---|---|---|
| What is the primary factor that has caused you to believe that temperatures on earth are increasing? (Among those who said there is solid evidence of global warming) [Coded open-end response] | Declining Glaciers and Polar Ice | 11% |
| | Warmer Temperatures Observed | 15% |
| | Weather Changes | 16% |
| | Scientific Research/Data | 15% |
| | Media Coverage | 9% |
| | Declining Species | 0% |
| | Human Activity | 16% |
| | Natural Patterns | 2% |
| | Ocean / Sea-level Rise | 1% |
| | Religious Factors | <1% |
| | Population Growth | 1% |
| | Growing Season / Plants | <1% |
| | Not Sure/Other | 13% |
| | N | 499 |

*Columns may not sum to 100% due to rounding within cells.*

**Q11-18.** Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer. [ROTATED LIST]

| | | Declining glaciers and polar ice throughout the globe | Warmer temperatures in your area during recent years | Computer models that indicate the earth is getting warmer | The strength of hurricanes hitting the United States | Milder winters in your area | Declining numbers of polar bears and penguins | Severe droughts in areas across the United States | Extreme weather events such as major storms and floods |
|---|---|---|---|---|---|---|---|---|---|
| Next I would like to read you a list of factors that may or may not have had an effect on your view that the earth is getting warmer.  For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that the earth is getting warmer." (Among those who said there is solid evidence of global warming) [ROTATED LIST] | Very Large | 59% | 35% | 25% | 38% | 30% | 33% | 50% | 51% |
| | Somewhat Large | 27% | 36% | 27% | 35% | 36% | 28% | 33% | 33% |
| | Not Too Large | 6% | 17% | 12% | 14% | 18% | 9% | 7% | 5% |
| | No Effect | 5% | 9% | 15% | 9% | 15% | 12% | 5% | 9% |
| | Not Sure (Volunteered) | 3% | 3% | 21% | 5% | 2% | 18% | 4% | 3% |
| | N | 503 | 503 | 501 | 503 | 503 | 503 | 503 | 503 |

*Columns may not sum to 100% due to rounding within cells.*

**Q19.** How confident are you that the average temperatures on earth are not increasing?  Are you very confident, fairly confident, not too confident, or not confident at all that the average temperature on earth is not increasing?

| | | Total |
|---|---|---|
| How confident are you that the average temperatures on earth are not increasing?  Are you very confident, fairly confident, not too confident or | Very Confident | 55% |

| not confident at all that the average temperature on earth is not increasing? (Among those who said there is not solid evidence of global warming) | | Total |
|---|---|---|
| | Fairly Confident | 29% |
| | Not Too Confident | 11% |
| | Not Confident At All | 3% |
| | Not Sure (Volunteered) | 3% |
| | *N* | 118 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q20. What is the primary factor that makes you believe that temperatures on earth are not increasing? [Coded open-end response]**

| | | Total |
|---|---|---|
| What is the primary factor that makes you believe that temperatures on earth are not increasing? (Among those who said there is not solid evidence of global warming) [Coded open-end response] | Personal Observations | 29% |
| | Natural Patterns | 28% |
| | Not Enough Evidence | 6% |
| | Media has Misled | 4% |
| | Evidence Disproves | 11% |
| | Religious Factors | 2% |
| | Political Factors | 1% |
| | No Particular Reason | 3% |
| | Not Sure/Other | 17% |
| | *N* | 116 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q21-23. Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is not occurring. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring. [ROTATED LIST]**

| | | Your personal observations of weather in your area | Scientific evidence that disproves the existence of global warming | Reports that climate scientists have distorted data to demonstrate that global warming is occurring |
|---|---|---|---|---|
| Next I would like to read you a list of factors that may or may not have had an effect on your view that global warming is not occurring. For each factor that I mention please indicate if it has had a very large, somewhat large, not too large, or no effect on your view that global warming is not occurring. (Among those who said there is not solid evidence of global warming) [ROTATED LIST] | Very Large | 28% | 19% | 30% |
| | Somewhat Large | 25% | 22% | 25% |
| | Not Too Large | 20% | 23% | 9% |
| | No Effect | 25% | 30% | 27% |
| | Not Sure (Volunteered) | 2% | 7% | 8% |
| | *N* | 118 | 118 | 118 |

*Columns may not sum to 100% due to rounding within cells.*

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**Q24. Now thinking about weather across the country, would you say weather in the US has been getting more extreme, less extreme or about the same?**

| | | Total |
|---|---|---|
| Now thinking about weather across the country, would you say weather in the US has been getting more extreme, less extreme or about the same? | More Extreme | 65% |
| | Less Extreme | 2% |
| | About the Same | 26% |
| | Not Sure (Volunteered) | 7% |
| | *N* | *767* |

*Columns may not sum to 100% due to rounding within cells.*

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**Q25. How likely is it that weather in the US is influenced by global warming?**

| | | Total |
|---|---|---|
| How likely is it that weather in the US is influenced by global warming? | Very Likely | 43% |
| | Somewhat Likely | 34% |
| | Not Likely | 7% |
| | Not At All Likely | 9% |
| | Not Sure (Volunteered) | 7% |
| | *N* | *765* |

*Columns may not sum to 100% due to rounding within cells.*

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**Finally a few questions about yourself.**

**Q26. Which of the following categories best describes your racial identity? Are you [READ LIST]**

| | | Total |
|---|---|---|
| Finally a few questions about yourself. Which of the following categories best describes your racial identity? Are you [READ LIST] | White/Caucasian | 62% |
| | African-American | 12% |
| | Hispanic | 12% |
| | Latino | 3% |
| | Asian | 4% |
| | Native American | 1% |
| | Mixed Race | 4% |
| | Other | 2% |
| | *N* | *718* |

*Columns may not sum to 100% due to rounding within cells.*

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**Q27. Which of the following categories best describes your religious affiliation? Are you [READ LIST]**

| | | Total |
|---|---|---|
| Which of the following categories best describes your religious affiliation? Are you [READ LIST] | Protestant | 35% |
| | Catholic | 25% |
| | Jewish | 1% |
| | Muslim | <1% |
| | Hindu | 2% |
| | Other Religion (Including Agnostic) | 28% |
| | Atheist | 4% |
| | Not Sure (Volunteered) | 3% |
| | N | 680 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q28. Would you describe yourself as an evangelical Christian?

| | | Total |
|---|---|---|
| Would you describe yourself as an evangelical Christian? (Among those who identified as Protestant) | Yes | 25% |
| | No | 64% |
| | Not Sure (Volunteered) | 10% |
| | N | 237 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q29. What is your highest level of education? [READ LIST]

| | | Total |
|---|---|---|
| What is your highest level of education? [READ LIST] | Less Than High School Graduate | 7% |
| | High School Graduate | 24% |
| | Some College or Technical School | 30% |
| | College Graduate | 26% |
| | Graduate or Professional Degree | 13% |
| | Not Sure (Volunteered) | 0% |
| | N | 759 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q30. Which of the following is your primary source for national and world news? [READ LIST]

| | | Total |
|---|---|---|
| | | |

| Which of the following is your primary source for national and world news? [READ LIST] | Television | 42% |
|---|---|---|
| | Newspapers | 8% |
| | Talk Radio Programs | 3% |
| | Radio News Programs | 3% |
| | The Internet | 40% |
| | Other (Volunteered) | 2% |
| | Not Sure (Volunteered) | 1% |
| | N | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q31. Which of the following best describes your political party affiliation? [READ LIST]

| | | Total |
|---|---|---|
| Which of the following best describes your political party affiliation? [READ LIST] | Democrat | 37% |
| | Republican | 21% |
| | Other Party | 7% |
| | Independent | 30% |
| | Not Sure (Volunteered) | 6% |
| | N | 673 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q32. Which of the following best describes your political beliefs? [READ LIST]

| | | Total |
|---|---|---|
| Which of the following best describes your political beliefs? [READ LIST] | Very Conservative | 12% |
| | Somewhat Conservative | 18% |
| | Moderate | 31% |
| | Somewhat Liberal | 20% |
| | Very Liberal | 10% |
| | Not Sure (Volunteered) | 8% |
| | N | 693 |

*Columns may not sum to 100% due to rounding within cells.*

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## Q33. Which of the following categories best describes your family income? Is it [READ LIST]

| | | Total |
|---|---|---|
| Which of the following categories best describes your family income? Is it [READ LIST] | Less than 20,000 | 15% |
| | 20,000 - 40,000 | 20% |

| | | Total |
|---|---|---|
| | 40,000 - 60,000 | 21% |
| | 60,000 - 80,000 | 12% |
| | 80,000 - 100,000 | 10% |
| | Over 100,000 | 17% |
| | Not Sure (Volunteered) | 4% |
| | N | 597 |

*Columns may not sum to 100% due to rounding within cells.*

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## Respondent Gender

| | | Total |
|---|---|---|
| Respondent Gender | Male | 49% |
| | Female | 51% |
| | N | 768 |

*Columns may not sum to 100% due to rounding within cells.*

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**Thank you for your help with the survey. We appreciate your time.**