# CLIMATE CHANGE IN THE AMERICAN MIND

# Beliefs & Attitudes

FALL 2023





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This report is based on findings from a nationally representative survey – *Climate Change in the American Mind* – conducted jointly by the <u>Yale Program on Climate Change Communication</u> and the <u>George Mason University Center for Climate Change Communication</u>. Interview dates: October 20 – 26, 2023. Interviews: 1,033 adults (18+). Average margin of error: +/- 3 percentage points at the 95% confidence level. The research was funded by the 11th Hour Project, the Energy Foundation, the MacArthur Foundation, the Heising-Simons Foundation, King Philanthropies, and the Grantham Foundation.

Climate Change in the American Mind is conducted jointly by the Yale Program on Climate Change Communication and the George Mason University Center for Climate Change Communication.

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#### **Executive Summary**

Drawing on a nationally representative survey (n = 1,033) conducted from October 20 – 26, 2023, this report describes Americans' beliefs and attitudes about global warming. Among the key findings of this report:

#### **Global Warming Beliefs**

- Americans who think global warming is happening outnumber those who think it is not happening by a ratio of nearly 5 to 1 (72% versus 15%).
- Those who are "very" or "extremely" sure global warming is happening outnumber those who are "very" or "extremely" sure it is not happening by about 6 to 1 (49% versus 8%).
- 58% of Americans understand that global warming is mostly human-caused. By contrast, 29% think it is caused mostly by natural changes in the environment.
- 53% of Americans understand that most scientists think global warming is happening.

#### Perceived Risks and Impacts of Global Warming

- 46% of Americans think people in the United States are being harmed by global warming "right now," and 43% say they have personally experienced the effects of global warming.
- Majorities of Americans think global warming will harm plant and animal species (71%), future generations of people (70%), the world's poor (67%), people in developing countries (66%), people in the United States (59%), and people in their community (50%). Many also think their family (49%) and they themselves (45%) will be harmed.
- 10% of Americans have considered moving to avoid the impacts of global warming.
- 61% of Americans think global warming is affecting weather in the United States, including 33% who think weather is being affected "a lot."
- Majorities of Americans think global warming is affecting many environmental problems in the United States, including extreme heat (75%), droughts (71%), wildfires (70%), air pollution (66%), water shortages (66%), flooding (66%), rising sea levels (66%), hurricanes (64%), reduced snow pack (61%), tornados (61%), agricultural pests and diseases (59%), water pollution (58%), and electricity power outages (57%).
- 52% of Americans think extreme weather poses either a "high" (16%) or "moderate" (36%) risk to their community over the next 10 years.
- Majorities of Americans are worried their local area might be harmed by electricity power outages (74%), air pollution (73%), extreme heat (70%), water pollution (67%), droughts (63%), agricultural pests and diseases (63%), flooding (58%), water shortages (56%), tornados (56%), and wildfires (52%). Many Americans are also worried their local area might be harmed by hurricanes (39%), rising sea levels (38%), and reduced snow pack (37%).

<sup>&</sup>lt;sup>1</sup> Throughout this report, we use the term "Americans" to refer to adults (18+) who reside in the United States (the 50 states plus the District of Columbia).





#### Global Warming, Emotional Responses, and Mental Health

- 65% of Americans say they are at least "somewhat worried" about global warming. This includes 29% who say they are "very worried."
- About one in ten Americans report experiencing symptoms of anxiety or depression because of global warming for several or more days out of the last two weeks.

#### Personal and Social Engagement with Global Warming

- 65% of Americans say they "rarely" or "never" discuss global warming with family and friends, while 35% say they do so "occasionally" or "often."
- 40% of Americans think it is at least "moderately" important to their family and friends that *they* take action to reduce global warming (an injunctive norm), and 35% say their family and friends make at least "a moderate amount of effort" to reduce global warming (a descriptive norm).
- 51% of Americans say they hear about global warming in the media about once a month or more frequently. Fewer (20%) say they hear people they know talk about global warming once a month or more frequently.
- Given the opportunity to talk to an expert on global warming, the questions Americans would most commonly ask are: "What can the nations of the world do to reduce global warming?" (74%); "What can the United States do to reduce global warming?" (72%); "How do you know that global warming is caused mostly by human activities, not natural changes in the environment?" (70%); and "Is there still time to reduce global warming, or is it too late?" (69%).
- 67% of Americans say the issue of global warming is either "extremely," "very," or "somewhat" important to them personally, while 33% say it is either "not too" or "not at all" personally important.
- 63% of Americans say they feel a personal sense of responsibility to help reduce global warming.

#### **Fatalism**

- 13% of Americans agree with the statement "it's already too late to do anything about global warming," while many more (60%) disagree.
- 47% of Americans agree with the statement "the actions of a single individual won't make any difference in global warming," while 53% disagree.





#### 1. Global Warming Beliefs

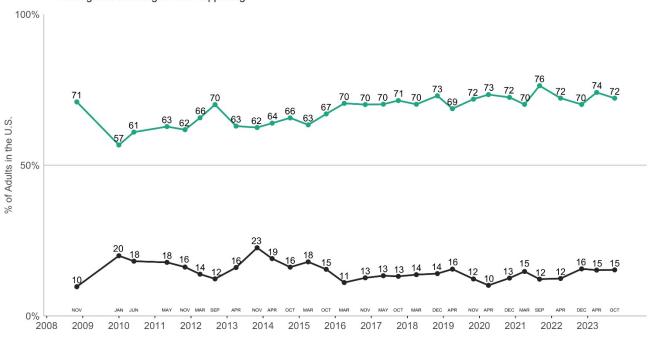
#### 1.1. Most Americans think global warming is happening.

Americans who think global warming is happening outnumber those who think it is not happening by a ratio of nearly 5 to 1.

About seven in ten Americans (72%) think global warming is happening. By contrast, only 15% of Americans think global warming is not happening. Twelve percent say they don't know if global warming is happening (refer to data tables, p. 31).

### Most Americans think global warming is happening

- Think global warming is happening
- Think global warming is NOT happening



Do you think global warming is happening?

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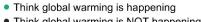


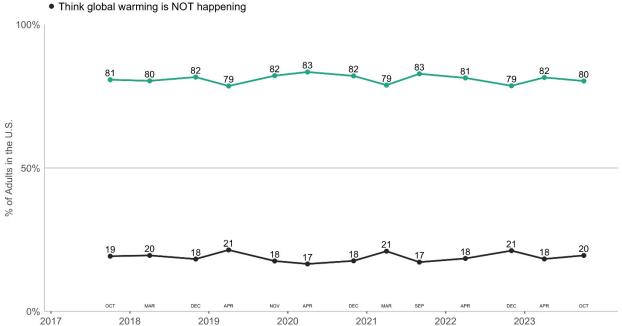
### 1.2. When Americans who "don't know" if global warming is happening are asked for their best guess, more say "yes" than "no."

Survey respondents who say they "don't know" whether global warming is happening in response to the question in Section 1.1 (refer to data tables, p. 31) are then asked to provide their best guess as to whether or not global warming is happening. Over time, this follow-up question has produced a relatively stable pattern in which more of these Americans "lean" toward "yes" than "no" (refer to data tables, p. 32).

When the "leaners," as determined by this follow-up question, are added to the totals of those who responded "yes" or "no" to the question reported in Section 1.1, we find that a total of 80% of Americans think global warming is happening or lean toward that position, while 20% think global warming is not happening or lean toward that position.

### When Americans who "don't know" if global warming are asked their best guess, more say "yes" than "no"





Even if you don't know, what's your best guess about whether global warming is happening?

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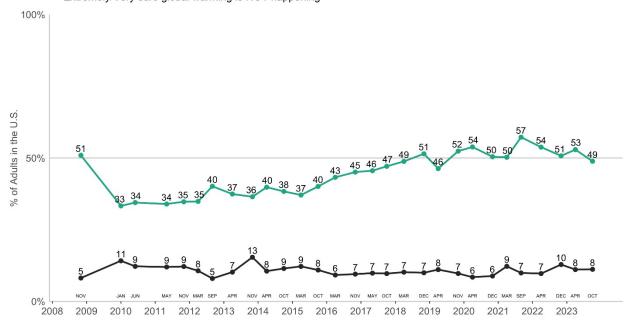


### 1.3. About half of Americans are "extremely" or "very" sure global warming is happening.

About half of Americans (49%) are either "extremely" or "very" sure global warming is happening. Far fewer (8%) are "extremely" or "very" sure global warming is not happening.

### About half of Americans are "extremely" or "very" sure global warming is happening

- Extremely/Very sure global warming is happening
- Extremely/Very sure global warming is NOT happening



How sure are you that global warming is/is not happening?

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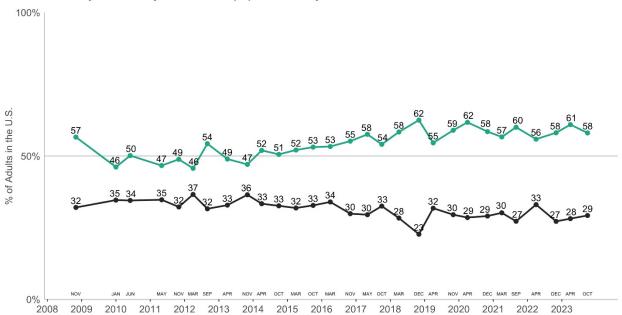
#### 1.4. A majority of Americans think global warming is mostly human-caused.

The Intergovernmental Panel on Climate Change's Sixth Assessment <u>synthesis report</u>, summarizing the work of thousands of climate experts worldwide, states: "Human activities, principally through emissions of greenhouse gases, have unequivocally caused global warming."<sup>2</sup>

A majority of Americans (58%) understand that global warming is mostly human-caused. By contrast, 29% think it is caused mostly by natural changes in the environment.

### A majority of Americans think global warming is mostly human-caused

- Think global warming is caused mostly by human activities
- Think global warming is caused mostly by natural changes in the environment



Assuming global warming is happening, do you think it is . . .

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<sup>&</sup>lt;sup>2</sup> IPCC. (2023). Summary for Policymakers. In Core Writing Team, Lee, H., & Romero, J. (eds.). Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. IPCC, Geneva, Switzerland. doi: 10.59327/IPCC/AR6-9789291691647.001





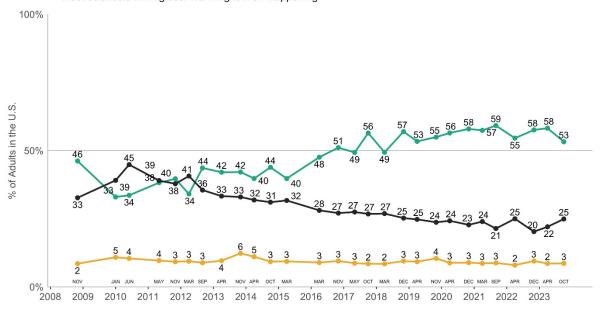
#### 1.5. About half of Americans understand that most scientists think global warming is happening.

A review by Cook and colleagues<sup>3</sup> found that six independent, peer-reviewed studies examining the scientific consensus about global warming have concluded that between 90% and 100% of climate scientists are convinced human-caused global warming is happening. A more recent study found that as many as 98% of climate scientists are convinced global warming is happening and human-caused.<sup>4</sup>

About half of Americans (53%) understand that most scientists think global warming is happening. By contrast, one in four (25%) think there is a lot of disagreement among scientists about whether or not global warming is happening. Very few Americans (3%) believe most scientists think global warming is not happening.

### About half of Americans understand that most scientists think global warming is happening

- Most scientists think global warming is happening
- There is a lot of disagreement among scientists
- Most scientists think global warming is NOT happening



What comes closest to your own view?

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Source: Yale Program on Climate Change Communication; George Mason University Center for Climate Change Communication

<sup>3</sup> Cook, J., Oreskes, N., Doran, P. T., Anderegg, W. R. I., Verheggen, B., Maibach, E. W., Carlton, J. S., Lewandowsky, S., Skuce, A. G., Green, S. A., Nuccitelli, D., Jacobs, P., Richardson, M., Winkler, B., Painting, R., & Rice., K. (2016). Consensus on consensus: A synthesis of consensus estimates on human-caused global warming. *Environmental Research Letters*, 11(4). doi:10.1088/1748-9326/11/4/048002

<sup>&</sup>lt;sup>4</sup> Myers, K. F., Doran, P. T., Cook, J., Kotcher, J. E., & Myers, T. A. (2021). Consensus revisited: Quantifying scientific agreement on climate change and climate expertise among Earth scientists 10 years later. *Environmental Research Letters*, 16(10). doi:10.1088/1748-9326/ac2774





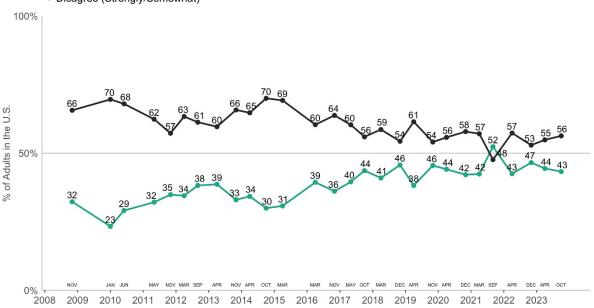
### 2. Perceived Risks of Global Warming

### 2.1. Many Americans say they have personally experienced the effects of global warming.

Many Americans (43%) agree with the statement "I have personally experienced the effects of global warming," although a majority of Americans (56%) disagree.

### Many Americans say they have personally experienced the effects of global warming

- Agree (Strongly/Somewhat)
- Disagree (Strongly/Somewhat)



How much do you agree or disagree with the following statement? I have personally experienced the effects of global warming.

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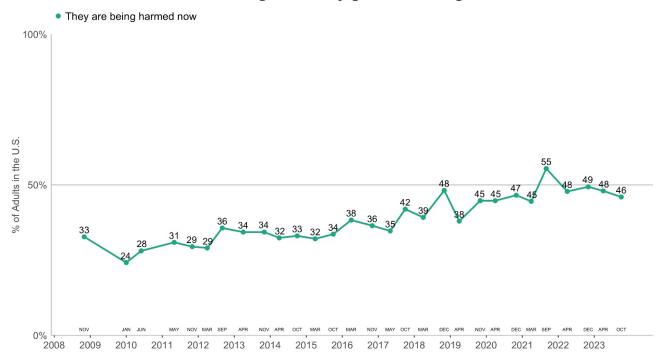




### 2.2. Many Americans think people in the U.S. are being harmed "right now" by global warming.

Just under half of Americans (46%) think people in the U.S. are being harmed by global warming "right now."

Many Americans think people in the U.S. are being harmed "right now" by global warming



When do you think global warming will start to harm people in the United States?

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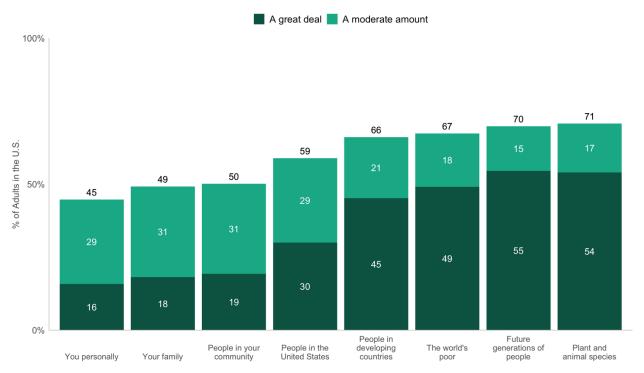




#### 2.3. Many Americans think global warming will harm them, but more think others will be harmed.

A majority of Americans understand that global warming will cause harm. Half or more Americans think global warming will cause either "a great deal" or "a moderate amount" of harm to plant and animal species (71%), future generations of people (70%), the world's poor (67%), people in developing countries (66%), people in the United States (59%), and people in their community (50%). Many Americans also think their family (49%) and they themselves (45%) will be harmed.

### Many Americans think global warming will harm them, but more think others will be harmed



How much do you think global warming will harm . . .?

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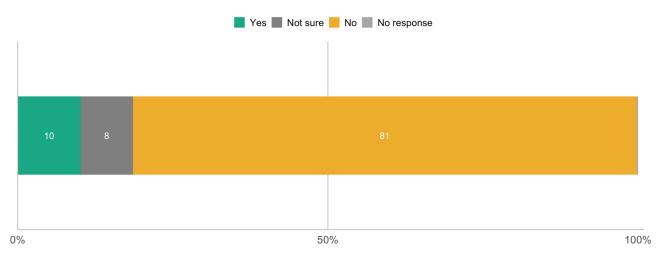




### 2.4. One in ten Americans have considered moving to avoid the impacts of global warming.

Research indicates<sup>5</sup> that an increasing number of people in the United States may be considering moving away from areas particularly vulnerable to climate change impacts. We find that 10% of Americans have considered moving to avoid the impacts of global warming, while 81% have not, and 8% are not sure.

### One in ten Americans have considered moving to avoid the impacts of global warming



Have you ever considered moving to a different home to avoid the impacts of global warming, such as sea-level rise, flooding, heat waves, or wildfires?

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<sup>&</sup>lt;sup>5</sup> Hauer, M. E. (2017). Migration induced by sea-level rise could reshape the US population landscape. *Nature Climate Change*, *7*(5), 321-325. doi:10.1038/nclimate3271



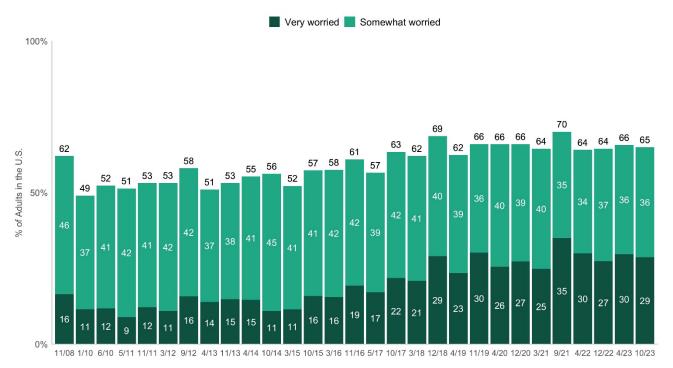


#### 3. Global Warming, Emotional Responses, and Mental Health

### 3.1. A majority of Americans are worried about global warming.

About two-thirds of Americans (65%) say they are at least "somewhat worried" about global warming. This includes 29% of Americans who say they are "very worried" about global warming, a response with a general upward trend since the survey began in 2008.

#### A majority of Americans are worried about global warming



How worried are you about global warming?

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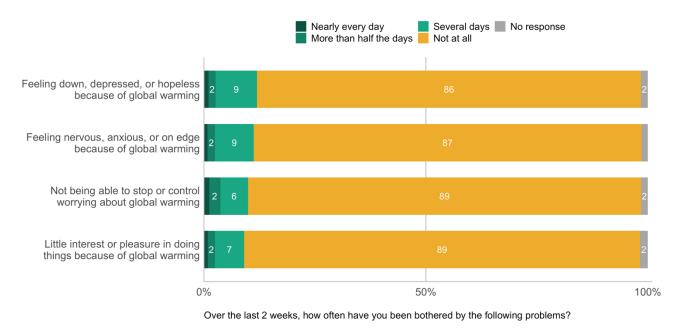


### 3.2. A small but notable percentage of Americans are experiencing psychological distress because of global warming.

To assess anxiety and depression symptoms arising from people's concerns about global warming, we adapted previously validated brief screening instruments for general anxiety disorder (the <u>GAD-2</u>)<sup>6</sup> and depression (the <u>PHQ-2</u>).<sup>7</sup>

We found that about one in ten Americans report experiencing symptoms of depression because of global warming for at least "several days" out of the last two weeks, including "feeling down, depressed, or hopeless because of global warming" (12%) or having "little interest or pleasure in doing things because of global warming" (9%). Similar percentages report experiencing symptoms of anxiety because of global warming for at least "several days" out of the last two weeks, including "feeling nervous, anxious, or on edge because of global warming" (11%) or "not being able to stop or control worrying about global warming" (10%).

## A small but notable percentage of Americans are experiencing psychological distress because of global warming



Source: Yale Program on Climate Change Communication; George Mason University Center for Climate Change Communication

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<sup>&</sup>lt;sup>6</sup> Kroenke, K., Spitzer, R. L., Williams, J. B., Monahan, P. O., & Löwe, B. (2007). Anxiety disorders in primary care: prevalence, impairment, comorbidity, and detection. *Annals of internal medicine*, 146(5), 317-325. <a href="https://doi.org/10.7326/0003-4819-146-5-200703060-00004">doi:10.7326/0003-4819-146-5-200703060-00004</a>

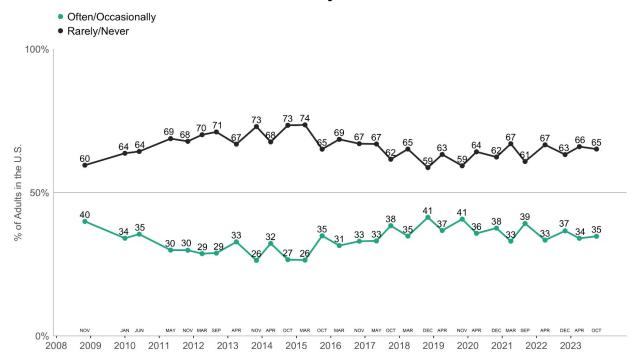
<sup>&</sup>lt;sup>7</sup> Kroenke, K., Spitzer, R. L., & Williams, J. B. (2003). The Patient Health Questionnaire-2: validity of a two-item depression screener. *Medical care*, 1284-1292. doi:jstor.org/stable/3768417

### 4. Personal and Social Engagement with Global Warming

### 4.1. Most Americans "rarely" or "never" discuss global warming with family and friends.

Most Americans (65%) say they either "rarely" (32%) or "never" (33%) discuss global warming with family and friends (refer to data tables, p. 55), while 35% say they discuss global warming either "occasionally" (30%) or "often" (5%).

### Most Americans "rarely" or "never" discuss global warming with family and friends



How often do you discuss global warming with your family and friends?

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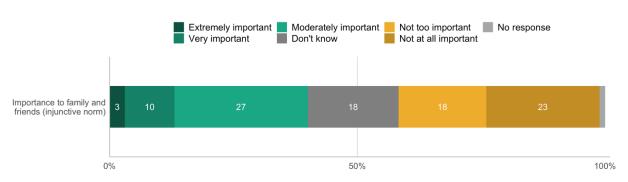


### 4.2. Fewer than half of Americans perceive social norms for taking action on global warming.

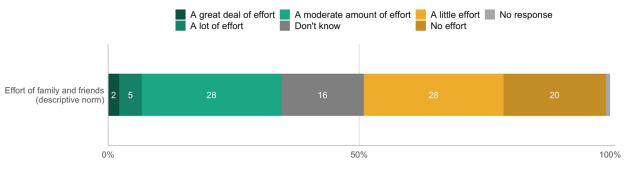
Social science research has shown that two types of social norms can have a powerful influence on people's behavior: injunctive norms (the belief that friends and family expect you to behave in a given way) and descriptive norms (the belief that friends and family are themselves behaving in that way).<sup>8</sup>

Four in ten Americans (40%) perceive an injunctive norm, saying it is either "extremely" (3%), "very" (10%), or "moderately" (27%) important to their family and friends that *they* take action to reduce global warming. Similarly, 35% perceive a descriptive norm, saying their family and friends make either "a great deal of effort" (2%), "a lot of effort" (5%), or "a moderate amount of effort" (28%) to reduce global warming.

### Fewer than half of Americans perceive social norms for taking action on global warming



How important is it to your family and friends that you take action to reduce global warming?



How much of an effort do your family and friends make to reduce global warming?

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<sup>&</sup>lt;sup>8</sup> Schultz, P. W., Nolan, J. M., Cialdini, R. B., Goldstein, N. J., & Griskevicius, V. (2007). The constructive, destructive, and reconstructive power of social norms. *Psychological Science*, *18*(5), 429-434. doi:10.1111/j.1467-9280.2007.01917.x



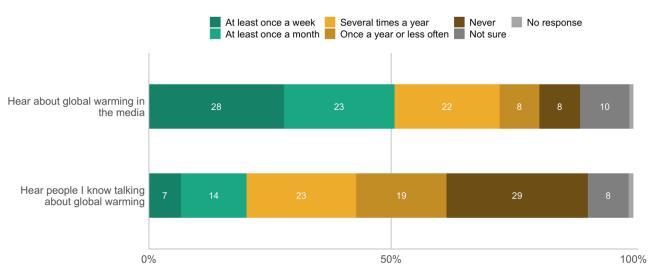


### 4.3. About half of Americans hear about global warming in the media at least once a month; fewer hear people they know talking about it at least once a month.

About half of Americans (51%) say they hear about global warming in the media once a month or more often, while 38% say they hear about global warming in the media several times a year or less often, including 8% who say they never hear about global warming in the media.

In contrast, only one in five Americans (20%) say they hear people they know talk about global warming once a month or more often, while 70% say they hear people they know talk about it several times a year or less often, including 29% who say they never hear people they know talk about global warming.

### About half of Americans hear about global warming in the media at least once a month



About how often do you hear about global warming in the media (TV, movies, radio, newspapers/news websites, magazines, etc.)?

About how often do you hear other people you know (your family, friends, co-workers, etc.) talk about global warming?

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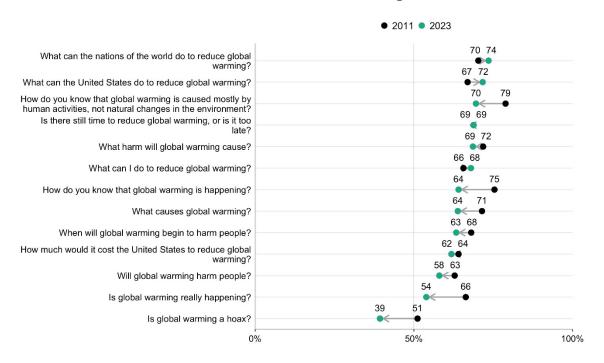


#### 4.4. Americans most want to ask a global warming expert about climate change solutions and causes.

About seven in ten or more Americans say that if they had the opportunity to talk to an expert on global warming, they would like to ask, "what can the nations of the world do to reduce global warming?" (74%), "what can the United States do to reduce global warming?" (72%), "how do you know that global warming is caused mostly by human activities, not natural changes in the environment (70%), and "is there still time to reduce global warming, or is it too late?" (69%).

These top responses contrast somewhat with the responses given in 2011 (refer to data tables, pp. 60 - 72), in which the top response, "how do you know global warming is caused mostly by human activities, not natural changes in the environment?" (79%) was followed by other basic knowledge questions, including "how do you know that global warming is happening?" (75%), "what harm will global warming cause?" (72%), and "what causes global warming?" (71%).

### Americans most want to ask a global warming expert about climate change solutions and causes



If you had the opportunity to talk to an expert on global warming, which of the following questions would you like to ask them?

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<sup>&</sup>lt;sup>9</sup> Respondents were presented 13 questions they could potentially ask and were prompted to respond either "yes" or "no" to each one. The identical set of questions was asked in the May 2011 wave of the *Climate Change in the American Mind* survey.





### 4.5. When asked to choose *one* question for a global warming expert, Americans most want to know about climate change causes and solutions.

After responding to each of the 13 questions they could potentially ask an expert on global warming, respondents were shown the list of questions to which they had answered "yes," and were asked the following question about them: "If you could ask the expert on global warming ONLY ONE QUESTION, which question would you ask?" <sup>10</sup>

Using this method, the top *single* question Americans would ask an expert on global warming is "how do you know that global warming is caused by human activities, not natural changes in the environment?" (16%), followed by "what can the nations of the world do to reduce global warming?" (14%), "is there still time to reduce global warming, or is it too late?" (13%), and "what can the United States do to reduce global warming?" (9%).

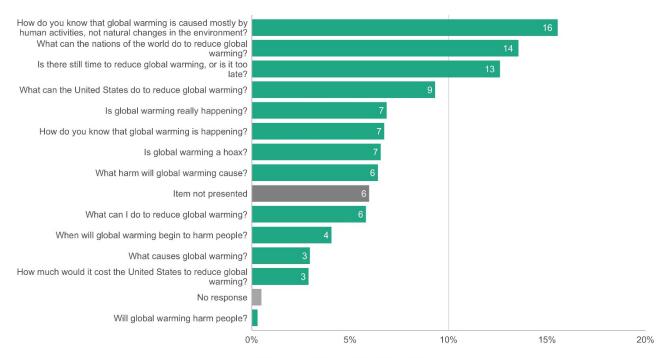
These are similar to the top responses given to this question in May 2011 (refer to data tables, p. 73), which included "how do you know that global warming is caused by human activities, not natural changes in the environment?" (16%), "how do you know that global warming is happening?" (10%), "is there still time to reduce global warming, or is it too late?" (10%), and "what can the nations of the world do to reduce global warming?" (10%).

 $<sup>^{10}</sup>$  This is identical to the procedure used in the May 2011 Climate Change in the American Mind survey.





## When asked to choose one question for a global warming expert, Americans most want to know about climate change causes and solutions



If you could ask the expert on global warming ONLY ONE QUESTION, which question would you ask?

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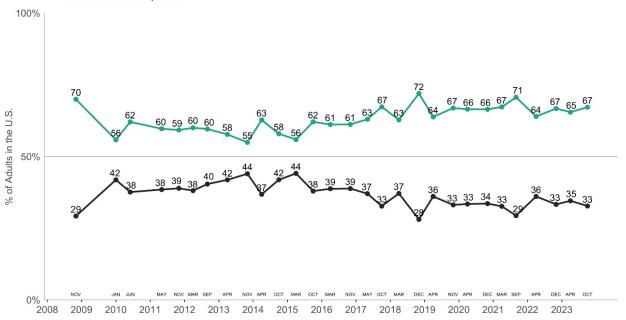


### 4.6. A majority of Americans say the issue of global warming is personally important.

Two in three Americans (67%) say the issue of global warming is either "extremely" (14%), "very" (23%), or "somewhat" (30%) important to them personally (refer to data tables, p. 77). One in three (33%) say global warming is either "not too" (13%) or "not at all" (20%) personally important.

### A majority of Americans say the issue of global warming is personally important

- Extremely/Very/Somewhat important
- Not too/Not at all important



How important is the issue of global warming to you personally?

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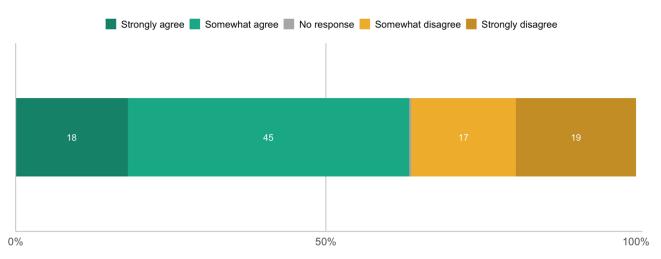




### 4.7. A majority of Americans feel a personal sense of responsibility to help reduce global warming.

A majority of Americans (63%) agree either "strongly" (18%) or "somewhat" (45%) that they feel a personal sense of responsibility to help reduce global warming.

### A majority of Americans feel a personal sense of responsibility to help reduce global warming



How much do you agree or disagree with the following statements? I feel a personal sense of responsibility to help reduce global warming

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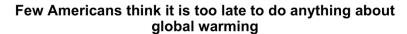


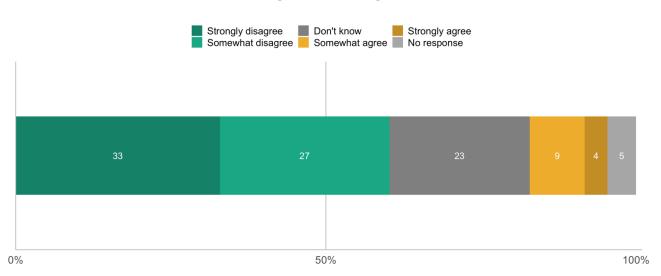


#### 5. Fatalism

### 5.1. Few Americans think it is too late to do anything about global warming.

Six in ten Americans (60%) either "strongly" (33%) or "somewhat" (27%) disagree with the statement: "it's already too late to do anything about global warming." By contrast, relatively few Americans (13%) either "strongly" (4%) or "somewhat" (9%) agree with this statement.





Please indicate how strongly you agree or disagree with the following statement: It's already too late to do anything about global warming.

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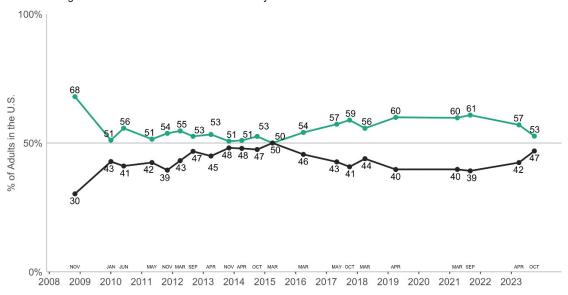


### 5.2. About half of Americans disagree with the statement "the actions of a single individual won't make any difference in global warming."

About half of Americans (53%) either "strongly" (18%) or "somewhat" (35%) disagree with the statement "the actions of a single individual won't make any difference in global warming" (refer to data tables, p. 80), while 47% of Americans either "strongly" (18%) or "somewhat" (29%) agree that individual actions won't make a difference.

## About half of Americans disagree with the statement "the actions of a single individual won't make any difference in global warming"

- · Disagree that individual actions won't make any difference
- · Agree that individual actions won't make any difference



How much do you agree or disagree with the following statements? The actions of a single individual won't make any difference in global warming

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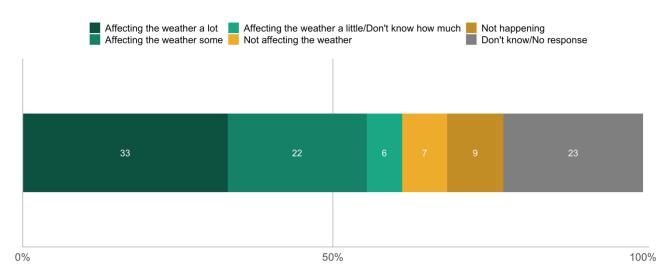


### 6. Impacts of Global Warming

#### 6.1. A majority of Americans think global warming is affecting weather in the United States.

About six in ten Americans (61%) think global warming is affecting weather in the United States, including a majority (55%) who think global warming is affecting U.S. weather either "a lot" (33%) or "some" (22%).





Which statement best reflects your view? (a) Global warming is affecting weather in the United States; (b) Global warming is not affecting weather in the United States; (c) Global warming isn't happening; (d) dont know; (e) Prefer not to answer. [If (a) selected] How much do you think global warming is affecting weather in the United States?

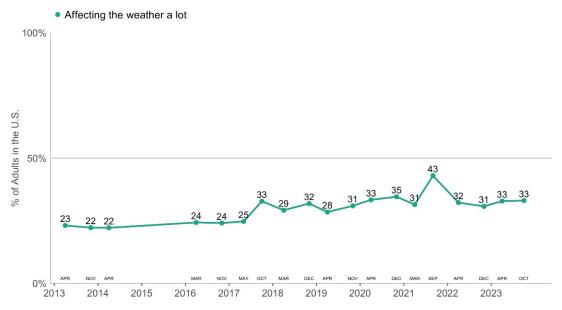
Fall 2023





As noted above, 33% of Americans think global warming is affecting weather "a lot." This is about the same level as in most of our surveys since October 2017.

### One in three Americans think global warming is affecting weather "a lot"



Which statement best reflects your view? (a) Global warming is affecting weather in the United States; (b) Global warming is not affecting weather in the United States; (c) Global warming isn't happening; (d) dont know; (e) Prefer not to answer. [If (a) selected] How much do you think global warming is affecting weather in the United States?

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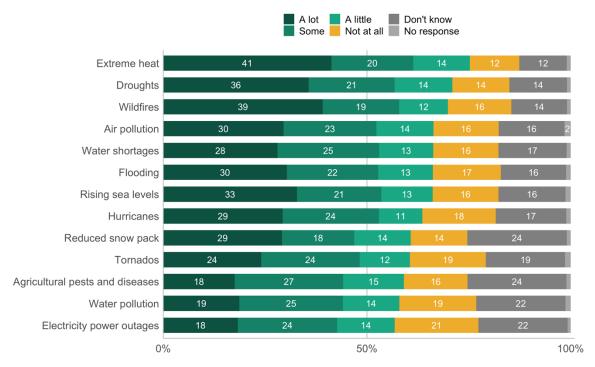




### 6.2. Most Americans think global warming is affecting environmental problems in the United States.

Most Americans think global warming is affecting many environmental problems in the United States at least "a little." This includes three in four who think global warming is affecting extreme heat (75%), and about seven in ten who think global warming is affecting droughts (71%) and wildfires (70%). Two in three think global warming is affecting air pollution, water shortages, flooding, and rising sea levels (all 66%). Majorities also think global warming is affecting hurricanes (64%), reduced snow pack (61%), tornados (61%), agricultural pests and diseases (59%), water pollution (58%), and electricity power outages (57%).

### Most Americans think global warming is affecting environmental problems in the United States



How much do you think global warming is affecting the following in the United States?

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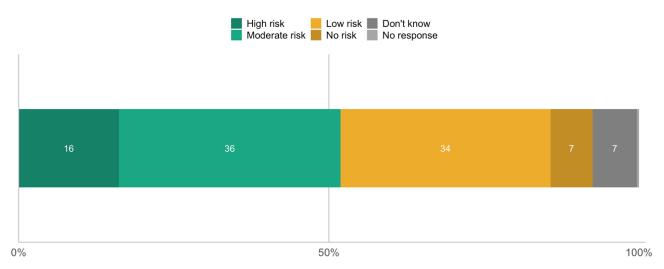




### 6.3. About half of Americans think extreme weather poses a risk to their community.

About half of Americans (52%) think extreme weather poses either a "high" (16%) or "moderate" (36%) risk to their community over the next 10 years. Fewer think extreme weather poses either a "low" risk (34%) or "no" risk (7%).

### About half of Americans think extreme weather poses a risk to their community



In your opinion, over the next 10 years how much risk does extreme weather pose to your community?

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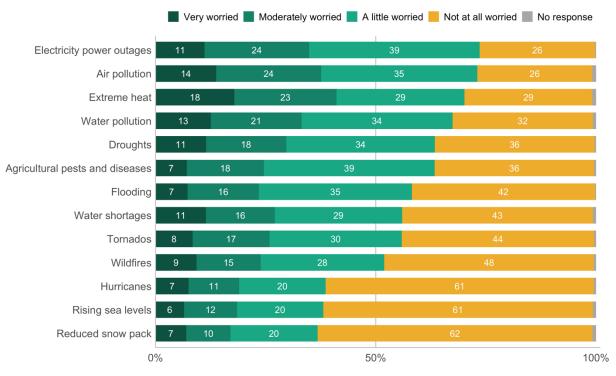




### 6.4. A majority of Americans are worried about harm from environmental problems in their local area.

Section 6.2 of this report outlines the degree to which Americans think global warming is already affecting numerous environmental problems. This section details how worried Americans are that each of those environmental problems will harm their local area in the future. Majorities of Americans are at least "a little worried" their local area might be harmed by electricity power outages (74%), air pollution (73%), extreme heat (70%), water pollution (67%), droughts (63%), agricultural pests and diseases (63%), flooding (58%), water shortages (56%), tornados (56%), and wildfires (52%). Many Americans are also worried their local area might be harmed by hurricanes (39%), rising sea levels (38%), and reduced snow pack (37%).

### A majority of Americans are worried about harm from environmental problems in their local area



How worried are you that the following might harm your local area?

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### **Appendix I: Data Tables**

#### Table Notes:

- In all tables, the base is all Americans age 18+.
- In the first row of each table, "Unweighted Base" refers to the unweighted number of respondents in each column.
- Percentages reported are weighted to match U.S. Census parameters.
- A dash ("-") denotes that there were no responses in that cell, and "0" denotes that the cell value is greater than 0 but less than 0.50.
- If a dash ("-") appears for all possible responses for a given question and wave, then that question was not asked in that survey wave.

## 1.1 Recently, you may have noticed that global warming has been getting some attention in the news. Global warming refers to the idea that the world's average temperature has been increasing over the past 150 years, may be increasing more in the future, and that the world's climate may change as a result.

#### What do you think: Do you think that global warming is happening?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	71	57	61	63	62	66	70	63	62
No (%)	10	20	18	18	16	14	12	16	23
Don't know (%)	19	22	21	18	19	20	18	20	14
No response (%)	0	1	0	1	3	1	-	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	64	66	63	67	70	70	70	71	70
No (%)	19	16	18	15	11	13	13	13	14
Don't know (%)	17	18	19	18	18	17	16	15	16
No response (%)	0	0	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	73	69	72	73	72	70	76	72	70
No (%)	14	16	12	10	13	15	12	12	16
Don't know (%)	13	16	16	16	15	15	11	15	14
No response (%)	0	-	0	-	0	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	74	72
No (%)	15	15
Don't know (%)	11	12
No response (%)	0	0





### 1.2 Even if you don't know, what's your best guess about whether global warming is happening?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes, global warming is	-	-	-	-	-	-	-	-	-
happening (%)									
No, global warming is not	-	-	-	-	-	-	-	-	-
happening (%)									
No response (%)	-	-	-	-	-	-	-	-	-
Not applicable (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes, global warming is	-	-	-	-	-	-	-	9	10
happening (%)									
No, global warming is not	-	-	-	-	-	-	-	6	6
happening (%)									
No response (%)	-	-	-	-	-	-	-	-	0
Not applicable (%)	-	-	-	-	-	-	-	85	84

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes, global warming is	9	10	10	10	10	9	6	9	9
happening (%)									
No, global warming is not	4	6	5	6	5	6	5	6	6
happening (%)									
No response (%)	0	-	0	-	0	0	-	0	0
Not applicable (%)	87	84	84	84	85	85	89	85	86

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes, global warming is	7	8
happening (%)		
No, global warming is not	3	4
happening (%)		
No response (%)	0	0
Not applicable (%)	89	87





### 1.3 How sure are you that global warming is happening?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Extremely sure (%)	25	14	12	13	14	13	19	17	17
Very sure (%)	26	20	22	21	21	22	21	21	20
Somewhat sure (%)	17	21	24	25	24	27	28	23	24
Not at all sure (%)	3	3	2	4	3	3	2	2	2
No response (%)	-	0	0	-	0	0	-	-	-
Not applicable (%)	29	43	39	37	38	34	30	37	38

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Extremely sure (%)	19	16	17	19	21	24	22	25	29
Very sure (%)	21	23	20	21	22	21	24	22	20
Somewhat sure (%)	21	25	24	25	24	23	23	23	19
Not at all sure (%)	3	2	2	2	3	2	1	1	2
No response (%)	-	-	-	-	-	-	-	-	-
Not applicable (%)	36	34	37	33	30	30	30	29	30

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Extremely sure (%)	31	27	31	32	31	27	35	32	31
Very sure (%)	21	19	21	22	20	23	23	21	20
Somewhat sure (%)	20	20	17	18	21	19	17	17	18
Not at all sure (%)	2	2	2	2	1	1	2	2	2
No response (%)	-	-	0	-	-	-	-	-	-
Not applicable (%)	27	31	28	27	28	30	24	28	30

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Extremely sure (%)	30	29
Very sure (%)	22	20
Somewhat sure (%)	19	21
Not at all sure (%)	2	2
No response (%)	-	-
Not applicable (%)	26	28





### - How sure are you that global warming is not happening?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Extremely sure (%)	3	5	4	4	3	2	2	3	5
Very sure (%)	3	6	6	5	6	6	3	5	8
Somewhat sure (%)	4	7	8	7	6	5	6	7	8
Not at all sure (%)	1	1	1	2	1	1	2	2	2
No response (%)	-	1	-	-	0	-	-	-	-
Not applicable (%)	90	80	82	82	84	86	88	84	77

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Extremely sure (%)	3	4	4	3	2	3	4	2	2
Very sure (%)	5	5	6	5	4	4	3	4	5
Somewhat sure (%)	9	6	7	6	4	5	5	5	5
Not at all sure (%)	2	2	2	2	1	1	1	1	2
No response (%)	-	-	-	-	-	-	-	-	-
Not applicable (%)	81	84	82	85	89	87	87	87	86

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Extremely sure (%)	3	3	4	2	2	4	3	3	5
Very sure (%)	4	5	3	4	4	5	4	4	5
Somewhat sure (%)	6	6	5	4	4	5	4	4	4
Not at all sure (%)	1	2	1	1	2	1	1	2	1
No response (%)	-	0	0	-	0	-	-	-	-
Not applicable (%)	86	84	88	90	87	85	88	88	84

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Extremely sure (%)	4	3
Very sure (%)	4	5
Somewhat sure (%)	6	5
Not at all sure (%)	1	2
No response (%)	-	-
Not applicable (%)	85	85





### 1.4 Assuming global warming is happening, do you think it is . . .

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Caused mostly by human activities (%)	57	46	50	47	49	46	54	49	47
Caused by human activities and natural changes (%)	5	6	7	7	6	9	5	7	5
Caused mostly by natural changes in the environment (%)	32	35	34	35	32	37	32	33	36
Neither because global warming isn't happening (%)	4	9	6	8	8	5	7	8	8
Other (%)	1	1	1	1	2	2	1	2	3
Don't know (%)	1	1	1	1	1	1	1	0	-
No response (%)	1	2	1	1	3	1	-	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Caused mostly by human activities (%)	52	51	52	53	53	55	58	54	58
Caused by human activities and natural changes (%)	5	6	4	5	5	5	6	6	5
Caused mostly by natural changes in the environment (%)	33	33	32	33	34	30	30	33	28
Neither because global warming isn't happening (%)	7	9	10	8	7	8	6	6	7
Other (%)	1	1	1	1	1	1	1	1	1
Don't know (%)	1	1	1	0	1	1	1	0	0
No response (%)	1	-	-	-	-	0	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Caused mostly by human activities (%)	62	55	59	62	58	57	60	56	58
Caused by human activities and natural changes (%)	6	6	5	5	6	5	6	5	4
Caused mostly by natural changes in the environment (%)	23	32	30	29	29	30	27	33	27
Neither because global warming isn't happening (%)	8	6	5	5	5	8	5	5	10
Other (%)	0	1	1	0	1	0	1	1	1
Don't know (%)	0	1	0	0	0	0	1	0	0
No response (%)	0	0	0	0	0	-	0	-	0





	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Caused mostly by human	61	58
activities (%)		
Caused by human	4	6
activities and natural		
changes (%)		
Caused mostly by natural	28	29
changes in the		
environment (%)		
Neither because global	6	6
warming isn't happening		
(%)		
Other (%)	1	1
Don't know (%)	0	0
No response (%)	0	0





## 1.5 Which comes closest to your own view?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Most scientists think	46	33	34	38	40	34	44	42	42
global warming is									
happening (%)									
There is a lot of	33	39	45	39	38	41	36	33	33
disagreement among									
scientists about whether or									
not global warming is									
happening (%)									
Most scientists think	2	5	4	4	3	3	3	4	6
global warming is not									
happening (%)									
Don't know enough to say	18	21	17	18	17	21	18	20	18
(%)									
No response (%)	1	2	0	1	2	1	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Most scientists think	40	44	40	-	48	51	49	56	49
global warming is									
happening (%)									
There is a lot of	32	31	32	-	28	27	27	27	27
disagreement among									
scientists about whether or									
not global warming is									
happening (%)									
Most scientists think	5	3	3	-	3	3	3	2	2
global warming is not									
happening (%)									
Don't know enough to say	23	22	25	-	21	18	21	14	21
(%)									
No response (%)	0	-	-	-	0	0	-	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Most scientists think	57	53	55	56	58	57	59	55	58
global warming is									
happening (%)									
There is a lot of	25	25	24	24	23	24	21	25	20
disagreement among									
scientists about whether or									
not global warming is									
happening (%)									
Most scientists think	3	3	4	3	3	3	3	2	3
global warming is not									
happening (%)									
Don't know enough to say	14	19	17	16	16	16	17	19	19
(%)									
No response (%)	0	0	-	0	0	-	-	-	-





	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Most scientists think	58	53
global warming is		
happening (%)		
There is a lot of	22	25
disagreement among		
scientists about whether or		
not global warming is		
happening (%)		
Most scientists think	2	3
global warming is not		
happening (%)		
Don't know enough to say	17	19
(%)		
No response (%)	-	-





## 2.1 How much do you agree or disagree with the following statements?

#### I have personally experienced the effects of global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Strongly agree (%)	4	4	5	5	7	5	4	6	6
Somewhat agree (%)	28	19	24	27	28	30	34	33	27
Somewhat disagree (%)	42	32	34	32	34	30	30	29	30
Strongly disagree (%)	24	37	34	30	23	33	31	31	36
No response (%)	2	7	3	6	8	2	0	2	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Strongly agree (%)	5	4	4	-	7	7	5	8	5
Somewhat agree (%)	29	26	27	-	33	29	34	36	36
Somewhat disagree (%)	29	29	29	-	29	29	29	30	27
Strongly disagree (%)	35	41	40	-	31	35	31	26	32
No response (%)	1	0	-	-	0	0	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Strongly agree (%)	11	6	10	9	12	7	12	9	12
Somewhat agree (%)	35	32	35	35	30	36	40	33	34
Somewhat disagree (%)	24	28	23	26	24	26	21	25	22
Strongly disagree (%)	31	33	31	30	34	31	26	33	31
No response (%)	-	0	0	0	-	1	-	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Strongly agree (%)	8	9
Somewhat agree (%)	37	35
Somewhat disagree (%)	26	24
Strongly disagree (%)	29	32
No response (%)	1	0





## 2.2 When do you think global warming will start to harm people in the United States?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
They are being harmed	33	24	28	31	29	29	36	34	34
now (%)									
In 10 years (%)	13	12	12	11	10	11	13	11	10
In 25 years (%)	13	13	11	13	13	13	11	12	14
In 50 years (%)	13	12	13	12	15	14	12	12	11
In 100 years (%)	12	13	14	11	15	15	13	13	12
Never (%)	14	23	19	19	16	15	15	17	18
No response (%)	3	2	3	2	3	2	1	1	2

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
They are being harmed	32	33	32	34	38	36	35	42	39
now (%)									
In 10 years (%)	9	10	10	13	12	14	11	12	11
In 25 years (%)	14	14	13	14	13	15	13	12	12
In 50 years (%)	15	12	11	11	12	10	13	11	12
In 100 years (%)	14	13	13	10	10	9	13	11	11
Never (%)	16	18	20	18	14	16	15	12	15
No response (%)	1	0	0	0	0	0	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
They are being harmed	48	38	45	45	47	45	55	48	49
now (%)									
In 10 years (%)	7	10	12	13	12	11	9	9	9
In 25 years (%)	14	13	12	12	10	10	8	10	9
In 50 years (%)	7	11	9	9	9	8	7	9	8
In 100 years (%)	9	12	9	8	9	9	8	8	8
Never (%)	14	15	14	13	14	16	13	16	16
No response (%)	0	0	0	0	0	0	0	0	0

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
They are being harmed	48	46
now (%)		
In 10 years (%)	10	11
In 25 years (%)	9	10
In 50 years (%)	9	9
In 100 years (%)	10	8
Never (%)	14	16
No response (%)	0	0





#### You personally

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	9	13	10	11	9	11	16	15	13
A moderate amount (%)	22	23	21	18	20	18	26	25	25
Only a little (%)	24	21	27	27	28	30	25	26	27
Not at all (%)	22	30	24	25	24	29	20	23	26
Don't know (%)	23	11	18	17	16	11	13	11	8
No response (%)	1	2	0	2	3	1	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	13	12	10	14	12	14	13	16	14
A moderate amount (%)	25	24	26	27	28	27	29	33	28
Only a little (%)	26	26	26	26	24	25	26	24	27
Not at all (%)	25	27	25	20	23	25	22	19	20
Don't know (%)	10	11	13	12	12	8	9	7	11
No response (%)	1	0	0	0	0	-	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	22	14	18	13	15	15	21	17	16
A moderate amount (%)	27	29	26	29	28	30	29	30	28
Only a little (%)	20	24	24	26	24	24	21	21	23
Not at all (%)	20	25	22	21	23	22	20	23	22
Don't know (%)	10	8	11	10	10	10	9	9	12
No response (%)	0	0	0	-	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	18	16
A moderate amount (%)	29	29
Only a little (%)	22	24
Not at all (%)	23	22
Don't know (%)	8	10
No response (%)	0	0





### Your family

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	11	15	11	12	10	12	18	17	17
A moderate amount (%)	24	25	25	21	23	21	28	27	25
Only a little (%)	23	21	23	25	27	28	23	23	25
Not at all (%)	18	27	21	23	21	26	17	20	24
Don't know (%)	23	11	19	17	17	12	14	11	8
No response (%)	1	2	0	2	2	1	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	16	15	13	-	15	17	16	19	17
A moderate amount (%)	27	28	28	-	30	30	31	35	30
Only a little (%)	24	23	23	-	22	24	25	22	25
Not at all (%)	21	23	22	-	21	21	19	16	17
Don't know (%)	11	11	13	-	12	8	9	8	12
No response (%)	1	0	0	-	-	-	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	27	18	21	16	19	17	26	21	18
A moderate amount (%)	29	30	28	30	30	32	29	30	30
Only a little (%)	17	22	22	24	20	22	18	21	20
Not at all (%)	17	22	18	19	21	19	18	20	20
Don't know (%)	9	9	11	11	10	10	9	9	12
No response (%)	-	0	0	-	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	20	18
A moderate amount (%)	31	31
Only a little (%)	20	21
Not at all (%)	20	20
Don't know (%)	9	9
No response (%)	0	0





#### People in your community

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	13	15	11	12	10	12	19	17	14
A moderate amount (%)	26	27	25	21	23	21	29	28	29
Only a little (%)	20	21	23	25	26	29	23	23	24
Not at all (%)	17	24	21	21	20	24	15	18	23
Don't know (%)	23	11	19	18	17	13	13	13	9
No response (%)	1	3	0	2	3	2	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	16	16	14	-	15	19	16	21	17
A moderate amount (%)	28	27	29	-	31	30	32	34	32
Only a little (%)	24	23	24	-	23	22	23	22	22
Not at all (%)	20	22	20	-	19	20	18	15	16
Don't know (%)	11	11	14	-	12	9	10	8	12
No response (%)	1	0	0	-	0	-	-	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	27	19	22	17	19	18	25	19	20
A moderate amount (%)	30	30	29	31	32	33	31	33	30
Only a little (%)	16	22	20	23	19	21	17	20	20
Not at all (%)	16	21	17	17	19	18	16	18	18
Don't know (%)	10	8	11	11	10	11	10	9	12
No response (%)	0	0	0	0	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	21	19
A moderate amount (%)	34	31
Only a little (%)	17	20
Not at all (%)	19	19
Don't know (%)	10	11
No response (%)	0	0





#### **People in the United States**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	21	22	16	16	15	18	26	22	23
A moderate amount (%)	28	28	28	26	28	28	31	30	30
Only a little (%)	15	15	21	22	23	23	17	18	19
Not at all (%)	13	21	17	17	16	17	12	16	20
Don't know (%)	22	12	17	18	16	12	13	12	7
No response (%)	1	3	0	2	3	2	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	23	23	19	23	24	28	25	34	28
A moderate amount (%)	30	30	30	33	35	32	33	33	30
Only a little (%)	18	20	20	18	16	17	19	14	18
Not at all (%)	18	17	17	14	15	15	15	11	12
Don't know (%)	10	11	14	12	10	8	9	7	12
No response (%)	1	0	0	0	0	-	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	38	30	35	29	32	31	38	31	33
A moderate amount (%)	27	28	30	33	30	32	29	33	29
Only a little (%)	12	15	12	16	14	13	12	14	13
Not at all (%)	13	17	13	12	13	14	11	14	14
Don't know (%)	10	9	10	10	11	9	9	8	11
No response (%)	0	0	0	-	-	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	36	30
A moderate amount (%)	28	29
Only a little (%)	14	16
Not at all (%)	14	15
Don't know (%)	8	10
No response (%)	0	0





### People in developing countries

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	31	28	22	23	22	26	35	30	32
A moderate amount (%)	21	24	27	21	27	25	29	25	24
Only a little (%)	10	14	17	19	17	18	10	18	17
Not at all (%)	13	19	15	16	15	16	11	13	19
Don't know (%)	24	13	18	18	17	14	15	13	8
No response (%)	1	2	0	2	3	2	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	31	29	27	34	36	40	37	47	38
A moderate amount (%)	24	26	26	27	27	25	25	25	24
Only a little (%)	17	16	17	13	12	12	16	10	12
Not at all (%)	16	17	15	13	13	13	13	10	12
Don't know (%)	11	12	15	13	12	11	9	9	13
No response (%)	1	0	0	0	-	-	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	48	42	48	44	46	47	52	44	47
A moderate amount (%)	20	22	19	22	21	21	19	25	19
Only a little (%)	8	11	8	10	10	9	7	9	9
Not at all (%)	11	15	12	10	10	12	11	12	13
Don't know (%)	13	10	12	14	13	11	11	10	13
No response (%)	0	0	0	-	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	50	45
A moderate amount (%)	18	21
Only a little (%)	9	10
Not at all (%)	12	12
Don't know (%)	10	12
No response (%)	0	0





#### The world's poor

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	-	-	-	-	-	-	-	-	-
A moderate amount (%)	-	-	-	-	-	-	-	-	-
Only a little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	-	-	30	36	40	43	39	49	40
A moderate amount (%)	-	-	23	25	22	21	23	21	22
Only a little (%)	-	-	16	12	12	11	15	10	13
Not at all (%)	-	-	16	13	13	13	13	10	12
Don't know (%)	-	-	15	13	14	12	10	9	13
No response (%)	-	-	-	0	0	0	-	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	50	44	50	46	48	47	55	50	50
A moderate amount (%)	17	20	16	21	18	21	16	20	17
Only a little (%)	8	11	9	11	10	9	8	8	9
Not at all (%)	12	15	13	10	12	13	11	13	13
Don't know (%)	13	10	12	12	13	11	11	10	12
No response (%)	-	0	0	-	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	51	49
A moderate amount (%)	18	18
Only a little (%)	9	8
Not at all (%)	12	13
Don't know (%)	11	11
No response (%)	0	0





#### Future generations of people

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	43	41	39	36	40	42	47	42	46
A moderate amount (%)	17	21	22	22	21	22	21	21	19
Only a little (%)	7	9	11	10	13	12	9	12	11
Not at all (%)	10	15	12	11	9	11	8	12	15
Don't know (%)	22	12	16	18	15	13	14	12	9
No response (%)	2	3	1	3	2	1	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	49	46	42	51	48	53	50	54	52
A moderate amount (%)	18	18	21	19	22	18	20	21	18
Only a little (%)	10	11	10	8	8	9	10	8	9
Not at all (%)	11	13	12	11	10	10	11	9	9
Don't know (%)	11	13	15	11	11	10	8	8	12
No response (%)	1	0	0	0	0	-	-	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	59	52	57	53	55	55	58	54	53
A moderate amount (%)	16	17	15	20	17	16	16	18	15
Only a little (%)	6	9	7	9	8	8	7	10	8
Not at all (%)	9	13	10	7	8	11	9	10	12
Don't know (%)	10	9	11	11	12	10	10	9	12
No response (%)	-	0	0	-	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	56	55
A moderate amount (%)	15	15
Only a little (%)	9	8
Not at all (%)	11	11
Don't know (%)	9	11
No response (%)	0	0





#### Plant and animal species

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal (%)	45	41	40	38	40	43	43	39	46
A moderate amount (%)	17	19	20	18	18	21	25	24	19
Only a little (%)	8	10	12	12	15	13	11	13	11
Not at all (%)	9	15	13	12	9	10	8	13	15
Don't know (%)	20	12	15	17	14	12	13	10	7
No response (%)	2	3	1	2	3	1	0	1	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal (%)	47	44	42	-	48	50	49	54	53
A moderate amount (%)	19	20	21	-	23	19	22	21	18
Only a little (%)	12	10	12	-	9	10	10	9	9
Not at all (%)	12	13	12	-	11	11	11	8	9
Don't know (%)	10	12	13	-	10	9	8	7	10
No response (%)	1	0	0	-	0	0	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal (%)	58	52	57	54	55	53	59	54	52
A moderate amount (%)	16	19	16	19	18	18	17	18	18
Only a little (%)	8	10	7	9	9	9	7	10	8
Not at all (%)	9	11	10	8	8	11	8	9	11
Don't know (%)	9	8	10	10	10	9	9	9	12
No response (%)	0	0	0	-	0	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal (%)	54	54
A moderate amount (%)	16	17
Only a little (%)	9	9
Not at all (%)	11	11
Don't know (%)	9	9
No response (%)	0	0





# 2.4 Have you ever considered moving to a different home to avoid the impacts of global warming, such as sea-level rise, flooding, heat waves, or wildfires?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	-	-	-	-	-	-
Not sure (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
Not sure (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	13	10
Not sure (%)	-	-	-	-	-	-	-	8	8
No (%)	-	-	-	-	-	-	-	78	82
No response (%)	-	-	-	-	-	-	-	1	0

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	11	10
Not sure (%)	6	8
No (%)	83	81
No response (%)	1	0





### 3.1 How worried are you about global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	16	11	12	9	12	11	16	14	15
Somewhat worried (%)	46	37	41	42	41	42	42	37	38
Not very worried (%)	24	27	30	28	30	30	25	30	26
Not at all worried (%)	13	22	18	20	15	16	17	19	20
No response (%)	1	2	0	1	2	1	0	0	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	15	11	11	16	16	19	17	22	21
Somewhat worried (%)	41	45	41	41	42	42	39	42	41
Not very worried (%)	27	26	29	27	25	24	27	23	22
Not at all worried (%)	18	18	19	16	18	15	17	14	16
No response (%)	0	-	-	-	-	-	-	-	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	29	23	30	26	27	25	35	30	27
Somewhat worried (%)	40	39	36	40	39	40	35	34	37
Not very worried (%)	19	23	19	22	20	19	18	19	19
Not at all worried (%)	13	14	15	12	14	17	12	17	16
No response (%)	0	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	30	29
Somewhat worried (%)	36	36
Not very worried (%)	19	20
Not at all worried (%)	16	15
No response (%)	-	0





## 3.2 Over the last 2 weeks, how often have you been bothered by the following problems?

#### Feeling nervous, anxious, or on edge because of global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Nearly every day (%)	-	-	-	-	-	-	-	-	1
More than half the days	-	-	-	-	-	-	-	-	2
(%)									
Several days (%)	-	-	-	-	-	-	-	-	8
Not at all (%)	-	-	-	-	-	-	-	-	88
No response (%)	-	-	-	-	-	-	-	-	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Nearly every day (%)	-	1
More than half the days	-	2
(%)		
Several days (%)	-	9
Not at all (%)	-	87
No response (%)	-	1





## - Over the last 2 weeks, how often have you been bothered by the following problems?

#### Not being able to stop or control worrying about global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Nearly every day (%)	-	-	-	-	-	-	-	-	1
More than half the days	-	-	-	-	-	-	-	-	2
(%)									
Several days (%)	-	-	-	-	-	-	-	-	6
Not at all (%)	-	-	-	-	-	-	-	-	90
No response (%)	-	-	-	-	-	-	-	-	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Nearly every day (%)	-	1
More than half the days	-	2
(%)		
Several days (%)	-	6
Not at all (%)	-	89
No response (%)	-	2





## - Over the last 2 weeks, how often have you been bothered by the following problems?

#### Little interest or pleasure in doing things because of global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Nearly every day (%)	-	-	-	-	-	-	-	-	1
More than half the days	-	-	-	-	-	-	-	-	2
(%)									
Several days (%)	-	-	-	-	-	-	-	-	4
Not at all (%)	-	-	-	-	-	-	-	-	92
No response (%)	-	-	-	-	-	-	-	-	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Nearly every day (%)	-	1
More than half the days	-	2
(%)		
Several days (%)	-	7
Not at all (%)	-	89
No response (%)	-	2





## - Over the last 2 weeks, how often have you been bothered by the following problems?

#### Feeling down, depressed, or hopeless because of global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Nearly every day (%)	-	-	-	-	-	-	-	-	-
More than half the days	-	-	-	-	-	-	-	-	-
(%)									
Several days (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Nearly every day (%)	-	-	-	-	-	-	-	-	1
More than half the days	-	-	-	-	-	-	-	-	2
(%)									
Several days (%)	-	-	-	-	-	-	-	-	6
Not at all (%)	-	-	-	-	-	-	-	-	90
No response (%)	-	-	-	-	-	-	-	-	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Nearly every day (%)	-	1
More than half the days	-	2
(%)		
Several days (%)	-	9
Not at all (%)	-	86
No response (%)	-	2





## 4.1 How often do you discuss global warming with your family and friends?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Often (%)	5	6	5	4	4	5	3	4	3
Occasionally (%)	35	29	30	26	26	24	26	28	23
Rarely (%)	33	34	39	41	39	40	38	39	38
Never (%)	26	30	25	28	29	30	34	28	34
No response (%)	1	2	0	1	2	1	0	0	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Often (%)	4	3	3	5	4	6	5	6	5
Occasionally (%)	28	24	23	29	27	27	28	32	30
Rarely (%)	39	36	38	33	36	36	36	37	34
Never (%)	29	37	36	32	32	31	31	25	31
No response (%)	0	-	-	-	-	-	-	-	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Often (%)	8	6	9	5	6	6	7	5	8
Occasionally (%)	34	31	32	31	32	27	32	28	29
Rarely (%)	33	33	32	38	31	34	30	35	30
Never (%)	26	30	27	26	32	33	30	32	33
No response (%)	-	-	-	0	0	-	-	-	0

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Often (%)	5	5
Occasionally (%)	29	30
Rarely (%)	34	32
Never (%)	32	33
No response (%)	-	0





## 4.2 How much of an effort do your family and friends make to reduce global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A great deal of effort (%)	-	-	-	-	-	-	-	-	-
A lot of effort (%)	-	-	-	-	-	-	-	-	-
A moderate amount of	-	-	-	-	-	-	-	-	-
effort (%)									
A little effort (%)	-	-	-	-	-	-	-	-	-
No effort (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A great deal of effort (%)	-	-	-	-	-	-	3	-	-
A lot of effort (%)	-	-	-	-	-	-	8	-	-
A moderate amount of	-	-	-	-	-	-	31	-	-
effort (%)									
A little effort (%)	-	-	-	-	-	-	29	-	-
No effort (%)	-	-	-	-	-	-	19	-	-
Don't know (%)	-	-	-	-	-	-	10	-	-
No response (%)	-	-	-	-	-	-	0	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A great deal of effort (%)	4	3	3	2	3	3	3	4	3
A lot of effort (%)	7	8	7	6	7	7	7	7	5
A moderate amount of	29	30	30	37	26	27	28	29	28
effort (%)									
A little effort (%)	29	24	28	29	31	31	30	28	27
No effort (%)	16	19	16	12	19	18	17	19	23
Don't know (%)	14	15	15	14	13	13	15	14	13
No response (%)	1	1	1	0	0	1	1	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A great deal of effort (%)	2	2
A lot of effort (%)	6	5
A moderate amount of	30	28
effort (%)		
A little effort (%)	28	28
No effort (%)	23	20
Don't know (%)	10	16
No response (%)	0	1





## - How important is it to your family and friends that you take action to reduce global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Extremely important (%)	-	-	-	-	-	-	-	-	-
Very important (%)	-	-	-	-	-	-	-	-	-
Moderately important (%)	-	-	-	-	-	-	-	-	-
Not too important (%)	-	-	-	-	-	-	-	-	-
Not at all important (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Extremely important (%)	-	-	-	-	-	-	5	-	-
Very important (%)	-	-	-	-	-	-	13	-	-
Moderately important (%)	-	-	-	-	-	-	27	-	-
Not too important (%)	-	-	-	-	-	-	23	-	-
Not at all important (%)	-	-	-	-	-	-	20	-	-
Don't know (%)	-	-	-	-	-	-	11	-	-
No response (%)	-	-	-	-	-	-	0	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Extremely important (%)	6	5	6	5	6	5	5	6	4
Very important (%)	13	14	11	12	12	12	13	10	10
Moderately important (%)	27	26	26	30	27	25	25	24	26
Not too important (%)	19	17	20	20	21	20	20	19	19
Not at all important (%)	18	19	19	17	21	22	20	24	24
Don't know (%)	16	17	17	15	12	15	16	16	15
No response (%)	1	2	1	0	0	1	1	1	0

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Extremely important (%)	3	3
Very important (%)	13	10
Moderately important (%)	25	27
Not too important (%)	20	18
Not at all important (%)	26	23
Don't know (%)	13	18
No response (%)	1	1





# 4.3 About how often do you hear about global warming in the media (TV, movies, radio, newspapers/news websites, magazines, etc.)?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
At least once a week (%)	-	-	-	-	-	-	-	-	-
At least once a month (%)	-	-	-	-	-	-	-	-	-
Several times a year (%)	-	-	-	-	-	-	-	-	-
Once a year or less often	-	-	-	-	-	-	-	-	-
(%)									
Never (%)	-	-	-	-	-	-	-	-	-
Not sure (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
At least once a week (%)	-	-	19	25	22	-	23	24	20
At least once a month (%)	-	-	21	23	22	-	20	28	23
Several times a year (%)	-	-	30	26	26	-	26	25	28
Once a year or less often	-	-	8	8	8	-	9	7	9
(%)									
Never (%)	-	-	6	6	7	-	9	3	7
Not sure (%)	-	-	15	11	15	-	11	13	12
No response (%)	-	-	0	1	0	-	1	1	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
At least once a week (%)	34	31	35	24	27	27	35	33	35
At least once a month (%)	22	20	21	24	23	21	22	24	23
Several times a year (%)	22	21	19	24	24	27	18	19	18
Once a year or less often (%)	5	6	6	8	7	6	5	7	6
Never (%)	6	8	6	8	7	7	9	6	8
Not sure (%)	8	13	13	12	10	11	10	11	9
No response (%)	2	1	1	1	1	1	1	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
At least once a week (%)	31	28
At least once a month (%)	22	23
Several times a year (%)	20	22
Once a year or less often	9	8
(%)		
Never (%)	9	8
Not sure (%)	9	10
No response (%)	1	1





## - About how often do you hear other people you know (your family, friends, co-workers, etc.) talk about global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
At least once a week (%)	-	-	-	-	-	-	-	-	-
At least once a month (%)	-	-	-	-	-	-	-	-	-
Several times a year (%)	-	-	-	-	-	-	-	-	-
Once a year or less often	-	-	-	-	-	-	-	-	-
(%)									
Never (%)	-	-	-	-	-	-	-	-	-
Not sure (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
At least once a week (%)	-	-	4	6	5	-	6	7	5
At least once a month (%)	-	-	12	15	13	-	13	17	15
Several times a year (%)	-	-	23	22	25	-	21	24	24
Once a year or less often	-	-	21	22	19	-	22	21	20
(%)									
Never (%)	-	-	25	26	24	-	28	18	22
Not sure (%)	-	-	14	9	13	-	10	12	13
No response (%)	-	-	0	1	1	-	1	1	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
At least once a week (%)	9	8	8	6	5	6	9	8	8
At least once a month (%)	17	15	16	16	16	13	15	15	17
Several times a year (%)	24	23	23	24	23	22	23	20	21
Once a year or less often (%)	19	16	15	23	21	20	15	19	17
Never (%)	22	24	25	24	28	28	28	28	28
Not sure (%)	7	12	12	8	7	9	9	8	8
No response (%)	1	1	1	1	0	1	1	0	0

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
At least once a week (%)	9	7
At least once a month (%)	14	14
Several times a year (%)	22	23
Once a year or less often	18	19
(%)		
Never (%)	28	29
Not sure (%)	8	8
No response (%)	1	1





### Is global warming really happening?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	66	-	-	-	-	-
No (%)	-	-	-	31	-	-	-	-	-
No response (%)	-	-	-	2	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	54
No (%)	-	45
No response (%)	-	1





### How do you know that global warming is happening?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	75	-	-	-	-	-
No (%)	-	-	-	22	-	-	-	-	-
No response (%)	-	-	-	3	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	64
No (%)	-	35
No response (%)	-	1





### What causes global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	71	-	-	-	-	-
No (%)	-	-	-	25	-	-	-	-	-
No response (%)	-	-	-	3	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	64
No (%)	-	35
No response (%)	-	1





#### How do you know that global warming is caused mostly by human activities, not natural changes in the environment?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	79	-	-	-	-	-
No (%)	-	-	-	18	-	-	-	-	-
No response (%)	-	-	-	3	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	70
No (%)	-	29
No response (%)	-	1





### What harm will global warming cause?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	72	-	-	-	-	-
No (%)	-	-	-	25	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	69
No (%)	-	30
No response (%)	-	2





### Will global warming harm people?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	63	-	-	-	-	-
No (%)	-	-	-	33	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	58
No (%)	-	40
No response (%)	-	2





### When will global warming begin to harm people?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	68	-	-	-	-	-
No (%)	-	-	-	27	-	-	-	-	-
No response (%)	-	-	-	5	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	63
No (%)	-	35
No response (%)	-	1





### What can the United States do to reduce global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	67	_	_	-	-	-
No (%)	-	-	-	29	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	72
No (%)	-	27
No response (%)	-	1





### What can I do to reduce global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	66	-	-	-	-	-
No (%)	-	-	-	30	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	68
No (%)	-	31
No response (%)	-	1





### How much would it cost the United States to reduce global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	64	-	-	-	-	-
No (%)	-	-	-	31	-	-	-	-	-
No response (%)	-	-	-	5	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	62
No (%)	-	36
No response (%)	-	2





### What can the nations of the world do to reduce global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	70	-	-	-	-	-
No (%)	-	-	-	25	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	74
No (%)	-	25
No response (%)	-	1





### Is there still time to reduce global warming, or is it too late?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	69	-	-	-	-	-
No (%)	-	-	-	28	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	69
No (%)	-	30
No response (%)	-	1





# - If you had the opportunity to talk to an expert on global warming, which of the following questions would you like to ask them?

### Is global warming a hoax?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Yes (%)	-	-	-	51	-	-	-	-	-
No (%)	-	-	-	45	-	-	-	-	-
No response (%)	-	-	-	4	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Yes (%)	-	-	-	-	-	-	-	-	-
No (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Yes (%)	-	39
No (%)	-	59
No response (%)	-	1





### 4.5 If you could ask the expert on global warming ONLY ONE QUESTION, which question would you ask?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
How do you know that	-	-	-	16	-	-	-	-	-
global warming is caused									
mostly by human									
activities, not natural									
changes in the									
environment? (%)									
How do you know that	-	-	-	10	-	-	-	-	-
global warming is									
happening? (%)									
How much would it cost	-	-	-	1	-	-	-	-	-
the United States to reduce									
global warming? (%)									
Is global warming a hoax?	-	-	-	5	-	-	-	-	-
(%)									
Is global warming really	-	-	-	9	-	-	-	-	-
happening? (%)									
Is there still time to reduce	-	-	-	10	-	-	-	-	-
global warming, or is it too									
late? (%)									
What can I do to reduce	-	-	-	6	-	-	-	-	-
global warming? (%)									
What can the nations of	-	-	-	10	-	-	-	-	-
the world do to reduce									
global warming? (%)									
What can the United States	-	-	-	4	-	-	-	-	-
do to reduce global									
warming? (%)				_					
What causes global	-	-	-	7	-	-	-	-	-
warming? (%)				0					
What harm will global	-	-	-	8	-	-	-	-	-
warming cause? (%)				4					
When will global warming	-	-	-	4	-	-	-	-	-
begin to harm people? (%)				2					
Will global warming harm people? (%)	-	-	-	2	-	-	-	-	-
Item not presented (%)	-	-	-	8	-	-	-	-	-
No response (%)	-	_	-	0	-	-	-	-	-





	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
How do you know that	-	-	-	-	-	-	-	-	-
global warming is caused									
mostly by human									
activities, not natural									
changes in the									
environment? (%)									
How do you know that	-	-	-	-	-	-	-	-	-
global warming is									
happening? (%)									
How much would it cost	-	-	-	-	-	-	-	-	-
the United States to reduce									
global warming? (%)									
Is global warming a hoax?	-	-	-	-	-	-	-	-	-
(%)									
Is global warming really	-	-	-	-	-	-	-	-	-
happening? (%)									
Is there still time to reduce	-	-	-	-	-	-	-	-	-
global warming, or is it too									
late? (%)									
What can I do to reduce	-	-	-	-	-	-	-	-	-
global warming? (%)									
What can the nations of	-	-	-	-	-	-	-	-	-
the world do to reduce									
global warming? (%)									
What can the United States	-	-	-	-	-	-	-	-	-
do to reduce global									
warming? (%)									
What causes global	-	-	-	-	-	-	-	-	-
warming? (%)									
What harm will global	-	-	-	-	-	-	-	-	-
warming cause? (%)									
When will global warming begin to harm people? (%)	-	-	-	-	-	-	-	-	-
Will global warming harm people? (%)	-	-	-	-	-	-	-	-	-
Item not presented (%) No response (%)	-	-	-	-	-	-	-	-	-
140 response (%)	-	-	-	-	-	-	-	-	





	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
How do you know that	-	-	-	-	-	-	-	-	-
global warming is caused									
mostly by human									
activities, not natural									
changes in the									
environment? (%)									
How do you know that	-	-	-	-	-	-	-	-	-
global warming is									
happening? (%)									
How much would it cost	-	-	-	-	-	-	-	-	-
the United States to reduce									
global warming? (%)									
Is global warming a hoax?	-	-	-	-	-	-	-	-	-
(%)									
Is global warming really	-	-	-	-	-	-	-	-	-
happening? (%)									
Is there still time to reduce	-	-	-	-	-	-	-	-	-
global warming, or is it too									
late? (%)									
What can I do to reduce	-	-	-	-	-	-	-	-	-
global warming? (%)									
What can the nations of	-	-	-	-	-	-	-	-	-
the world do to reduce									
global warming? (%)									
What can the United States	-	-	-	-	-	-	-	-	-
do to reduce global									
warming? (%) What causes global									
warming? (%)	-	-	-	-	-	-	-	-	-
What harm will global									
warming cause? (%)	-	-	-	-	-	-	-	-	-
When will global warming	_	_	_	_	_	_	_	_	
begin to harm people? (%)									
Will global warming harm	_	_	_	_	_	_	_	_	_
people? (%)									
Item not presented (%)	-	_	_	_	_	_	_	_	_
No response (%)	_	_	_	_	_	_	_	_	_





	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
How do you know that	-	16
global warming is caused		
mostly by human		
activities, not natural		
changes in the		
environment? (%)		
How do you know that	-	7
global warming is		
happening? (%)		
How much would it cost	-	3
the United States to reduce		
global warming? (%)		
Is global warming a hoax?	-	7
(%)		
Is global warming really	-	7
happening? (%)		
Is there still time to reduce	-	13
global warming, or is it too		
late? (%)		
What can I do to reduce	-	6
global warming? (%)		
What can the nations of	-	14
the world do to reduce		
global warming? (%)		
What can the United States	-	9
do to reduce global		
warming? (%)		
What causes global	-	3
warming? (%)		
What harm will global	-	6
warming cause? (%)		
When will global warming	-	4
begin to harm people? (%)		
Will global warming harm	-	0
people? (%)		
Item not presented (%)	-	6
No response (%)	-	0





### 4.6 How important is the issue of global warming to you personally?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Extremely important (%)	10	5	6	7	6	6	6	8	8
Very important (%)	20	14	18	15	13	14	17	13	14
Somewhat important (%)	39	37	38	37	40	40	36	36	33
Not too important (%)	18	23	24	24	24	23	24	24	25
Not at all important (%)	11	19	14	14	15	16	17	18	18
No response (%)	1	2	0	2	2	2	0	0	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Extremely important (%)	8	5	6	7	9	10	10	12	10
Very important (%)	17	16	15	18	17	17	16	19	18
Somewhat important (%)	38	37	35	37	35	34	38	37	35
Not too important (%)	21	24	24	21	21	22	22	19	22
Not at all important (%)	16	18	20	17	17	16	15	14	15
No response (%)	0	0	-	-	0	-	-	-	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Extremely important (%)	16	12	18	13	13	13	19	15	14
Very important (%)	24	18	24	24	24	22	24	24	21
Somewhat important (%)	32	33	26	29	30	33	28	25	31
Not too important (%)	15	19	18	20	17	16	15	18	16
Not at all important (%)	14	17	16	13	16	17	15	18	18
No response (%)	-	0	-	0	-	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Extremely important (%)	13	14
Very important (%)	22	23
Somewhat important (%)	30	30
Not too important (%)	18	13
Not at all important (%)	17	20
No response (%)	-	0





### 4.7 How much do you agree or disagree with the following statements?

### I feel a personal sense of responsibility to help reduce global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Strongly agree (%)	-	-	-	-	-	-	-	-	-
Somewhat agree (%)	-	-	-	-	-	-	-	-	-
Somewhat disagree (%)	-	-	-	-	-	-	-	-	-
Strongly disagree (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Strongly agree (%)	-	-	-	-	-	-	-	-	-
Somewhat agree (%)	-	-	-	-	-	-	-	-	-
Somewhat disagree (%)	-	-	-	-	-	-	-	-	-
Strongly disagree (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Strongly agree (%)	-	-	-	22	22	16	21	-	19
Somewhat agree (%)	-	-	-	44	42	49	48	-	44
Somewhat disagree (%)	-	-	-	18	17	18	15	-	16
Strongly disagree (%)	-	-	-	16	19	16	16	-	21
No response (%)	-	-	-	0	-	1	-	-	0

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Strongly agree (%)	17	18
Somewhat agree (%)	44	45
Somewhat disagree (%)	18	17
Strongly disagree (%)	20	19
No response (%)	1	0





### **5.1** Please indicate how strongly you agree or disagree with the following statement:

#### It's already too late to do anything about global warming.

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Strongly agree (%)	-	-	-	-	-	-	-	-	-
Somewhat agree (%)	-	-	-	-	-	-	-	-	-
Somewhat disagree (%)	-	-	-	-	-	-	-	-	-
Strongly disagree (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
Prefer not to answer (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Strongly agree (%)	-	-	-	-	-	-	-	-	-
Somewhat agree (%)	-	-	-	-	-	-	-	-	-
Somewhat disagree (%)	-	-	-	-	-	-	-	-	-
Strongly disagree (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
Prefer not to answer (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Strongly agree (%)	2	3	3	2	3	3	3	4	3
Somewhat agree (%)	12	9	9	9	11	9	10	13	10
Somewhat disagree (%)	28	25	28	24	24	25	26	22	26
Strongly disagree (%)	38	39	38	44	44	38	41	39	34
Don't know (%)	15	17	16	14	15	18	15	17	19
Prefer not to answer (%)	4	5	5	6	3	5	5	5	6
No response (%)	1	1	1	0	0	1	1	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Strongly agree (%)	2	4
Somewhat agree (%)	11	9
Somewhat disagree (%)	29	27
Strongly disagree (%)	38	33
Don't know (%)	15	23
Prefer not to answer (%)	5	4
No response (%)	1	1





### 5.2 How much do you agree or disagree with the following statements?

#### The actions of a single individual won't make any difference in global warming

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Strongly agree (%)	9	15	13	14	11	18	19	16	17
Somewhat agree (%)	22	27	28	29	29	25	28	29	31
Somewhat disagree (%)	44	35	41	34	40	34	34	35	34
Strongly disagree (%)	24	16	15	18	13	21	19	19	16
No response (%)	2	6	3	6	7	2	1	2	1

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Strongly agree (%)	15	19	17	-	15	-	17	15	15
Somewhat agree (%)	32	29	33	-	31	-	26	26	29
Somewhat disagree (%)	34	32	33	-	32	-	37	37	36
Strongly disagree (%)	17	20	17	-	22	-	20	22	20
No response (%)	1	-	-	-	0	-	0	0	0

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Strongly agree (%)	-	15	-	-	-	16	14	-	-
Somewhat agree (%)	-	25	-	-	-	24	25	-	-
Somewhat disagree (%)	-	37	-	-	-	38	38	-	-
Strongly disagree (%)	-	23	-	-	-	21	23	-	-
No response (%)	-	0	-	-	-	0	-	-	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Strongly agree (%)	16	18
Somewhat agree (%)	26	29
Somewhat disagree (%)	38	35
Strongly disagree (%)	19	18
No response (%)	1	0





### 6.1a Which statement below best reflects your view?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	526	398
Global warming is	-	-	-	-	-	-	-	58	56
affecting weather in the									
United States (%)									
Global warming is not	-	-	-	-	-	-	-	7	7
affecting weather in the									
United States (%)									
Global warming isn't	-	-	-	-	-	-	-	10	13
happening (%)									
Don't know (%)	-	-	-	-	-	-	-	19	17
Prefer not to answer (%)	-	-	-	-	-	-	-	5	5
No response (%)	-	-	-	-	-	-	-	1	2

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Global warming is	57	-	-	-	60	59	59	64	61
affecting weather in the									
United States (%)									
Global warming is not	8	-	-	-	5	7	5	6	5
affecting weather in the									
United States (%)									
Global warming isn't	10	-	-	-	9	9	10	8	9
happening (%)									
Don't know (%)	19	-	-	-	20	21	21	18	18
Prefer not to answer (%)	5	-	-	-	5	4	5	5	6
No response (%)	1	-	-	-	0	0	1	0	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Global warming is	65	60	64	66	63	61	70	63	60
affecting weather in the									
United States (%)									
Global warming is not	6	7	6	5	8	7	6	9	7
affecting weather in the									
United States (%)									
Global warming isn't	8	11	9	7	8	9	7	6	11
happening (%)									
Don't know (%)	15	18	16	17	18	16	13	16	17
Prefer not to answer (%)	4	3	4	4	2	5	4	5	5
No response (%)	2	1	1	0	1	1	1	0	0

1,011	1,033
	,,
65	61
7	7
9	9
15	18
3	4
1	1
	15





### 6.1b How much do you think global warming is affecting weather in the United States?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	526	398
A lot (%)	-	-	-	-	-	-	-	23	22
Some (%)	-	-	-	-	-	-	-	27	26
A little (%)	-	-	-	-	-	-	-	6	6
Don't know (%)	-	-	-	-	-	-	-	1	2
Prefer not to answer (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	1	0
Not applicable (%)	-	-	-	-	-	-	-	42	44

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	22	-	-	-	24	24	25	33	29
Some (%)	25	-	-	-	28	26	27	23	25
A little (%)	8	-	-	-	7	8	5	6	6
Don't know (%)	1	-	-	-	1	2	1	1	1
Prefer not to answer (%)	-	-	-	-	-	-	0	0	0
No response (%)	0	-	-	-	0	0	0	0	-
Not applicable (%)	43	-	-	-	40	41	41	36	39

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	32	28	31	33	35	31	43	32	31
Some (%)	26	22	25	25	21	23	22	24	23
A little (%)	5	7	6	6	6	5	4	5	5
Don't know (%)	1	2	2	1	0	2	0	1	1
Prefer not to answer (%)	-	0	0	0	-	0	0	-	-
No response (%)	1	0	0	0	-	0	0	0	-
Not applicable (%)	35	40	36	34	37	39	30	37	40

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	33	33
Some (%)	25	22
A little (%)	5	4
Don't know (%)	2	1
Prefer not to answer (%)	0	-
No response (%)	0	0
Not applicable (%)	35	39





#### Extreme heat

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	49	40	37
Some (%)	-	-	-	-	-	-	19	22	23
A little (%)	-	-	-	-	-	-	9	13	10
Not at all (%)	-	-	-	-	-	-	10	13	16
Don't know (%)	-	-	-	-	-	-	10	11	13
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	42	41
Some (%)	22	20
A little (%)	12	14
Not at all (%)	13	12
Don't know (%)	11	12
No response (%)	1	1





#### **Flooding**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	42	31	27
Some (%)	-	-	-	-	-	-	22	26	26
A little (%)	-	-	-	-	-	-	8	14	13
Not at all (%)	-	-	-	-	-	-	12	15	17
Don't know (%)	-	-	-	-	-	-	13	14	16
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	34	30
Some (%)	24	22
A little (%)	11	13
Not at all (%)	16	17
Don't know (%)	13	16
No response (%)	2	1





#### Wildfires

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	50	42	38
Some (%)	-	-	-	-	-	-	17	19	20
A little (%)	-	-	-	-	-	-	9	11	12
Not at all (%)	-	-	-	-	-	-	11	15	16
Don't know (%)	-	-	-	-	-	-	11	11	13
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	40	39
Some (%)	20	19
A little (%)	11	12
Not at all (%)	15	16
Don't know (%)	13	14
No response (%)	1	1





#### Hurricanes

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	42	32	28
Some (%)	-	-	-	-	-	-	21	22	24
A little (%)	-	-	-	-	-	-	10	15	11
Not at all (%)	-	-	-	-	-	-	12	15	18
Don't know (%)	-	-	-	-	-	-	14	15	16
No response (%)	-	-	-	-	-	-	1	1	2

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	32	29
Some (%)	26	24
A little (%)	10	11
Not at all (%)	17	18
Don't know (%)	14	17
No response (%)	1	1





#### **Droughts**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	45	38	35
Some (%)	-	-	-	-	-	-	21	23	24
A little (%)	-	-	-	-	-	-	10	12	11
Not at all (%)	-	-	-	-	-	-	10	13	15
Don't know (%)	-	-	-	-	-	-	13	13	13
No response (%)	-	-	-	-	-	-	1	1	2

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	38	36
Some (%)	20	21
A little (%)	13	14
Not at all (%)	15	14
Don't know (%)	13	14
No response (%)	2	1





#### Water shortages

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	38	32	29
Some (%)	-	-	-	-	-	-	24	24	25
A little (%)	-	-	-	-	-	-	11	14	13
Not at all (%)	-	-	-	-	-	-	11	15	16
Don't know (%)	-	-	-	-	-	-	15	14	16
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	33	28
Some (%)	23	25
A little (%)	13	13
Not at all (%)	15	16
Don't know (%)	15	17
No response (%)	1	1





#### Reduced snow pack

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

-	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	36	33	29
Some (%)	-	-	-	-	-	-	22	20	21
A little (%)	-	-	-	-	-	-	11	14	11
Not at all (%)	-	-	-	-	-	-	11	12	17
Don't know (%)	-	-	-	-	-	-	19	19	21
No response (%)	-	-	-	-	-	-	1	1	2

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	29	29
Some (%)	21	18
A little (%)	13	14
Not at all (%)	16	14
Don't know (%)	21	24
No response (%)	1	1





#### Rising sea levels

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	43	37	31
Some (%)	-	-	-	-	-	-	20	20	25
A little (%)	-	-	-	-	-	-	11	15	12
Not at all (%)	-	-	-	-	-	-	11	13	16
Don't know (%)	-	-	-	-	-	-	14	14	15
No response (%)	-	-	-	-	-	-	1	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	37	33
Some (%)	22	21
A little (%)	13	13
Not at all (%)	14	16
Don't know (%)	13	16
No response (%)	1	1





#### Agricultural pests and diseases

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	28	21	19
Some (%)	-	-	-	-	-	-	27	27	26
A little (%)	-	-	-	-	-	-	12	18	15
Not at all (%)	-	-	-	-	-	-	13	16	17
Don't know (%)	-	-	-	-	-	-	19	18	21
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	19	18
Some (%)	25	27
A little (%)	16	15
Not at all (%)	16	16
Don't know (%)	22	24
No response (%)	1	1





#### **Tornados**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	32	29	22
Some (%)	-	-	-	-	-	-	24	25	26
A little (%)	-	-	-	-	-	-	11	14	14
Not at all (%)	-	-	-	-	-	-	14	15	18
Don't know (%)	-	-	-	-	-	-	17	16	19
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	31	24
Some (%)	23	24
A little (%)	12	12
Not at all (%)	16	19
Don't know (%)	17	19
No response (%)	1	1





#### Air pollution

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

-	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	39	29	27
Some (%)	-	-	-	-	-	-	22	26	23
A little (%)	-	-	-	-	-	-	13	15	14
Not at all (%)	-	-	-	-	-	-	12	15	18
Don't know (%)	-	-	-	-	-	-	13	14	17
No response (%)	-	-	-	-	-	-	2	1	2

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	29	30
Some (%)	26	23
A little (%)	12	14
Not at all (%)	17	16
Don't know (%)	14	16
No response (%)	2	2





#### Water pollution

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

-	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	29	23	21
Some (%)	-	-	-	-	-	-	24	25	24
A little (%)	-	-	-	-	-	-	12	14	13
Not at all (%)	-	-	-	-	-	-	14	18	20
Don't know (%)	-	-	-	-	-	-	18	18	20
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	21	19
Some (%)	26	25
A little (%)	13	14
Not at all (%)	19	19
Don't know (%)	19	22
No response (%)	1	1





#### **Electricity power outages**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
A lot (%)	-	-	-	-	-	-	-	-	-
Some (%)	-	-	-	-	-	-	-	-	-
A little (%)	-	-	-	-	-	-	-	-	-
Not at all (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
A lot (%)	-	-	-	-	-	-	28	19	17
Some (%)	-	-	-	-	-	-	27	27	25
A little (%)	-	-	-	-	-	-	11	16	15
Not at all (%)	-	-	-	-	-	-	16	21	21
Don't know (%)	-	-	-	-	-	-	17	17	21
No response (%)	-	-	-	-	-	-	2	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
A lot (%)	20	18
Some (%)	26	24
A little (%)	12	14
Not at all (%)	21	21
Don't know (%)	19	22
No response (%)	1	1





### 6.3 In your opinion, over the next 10 years how much risk does extreme weather pose to your community?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
High risk (%)	-	-	-	-	-	-	-	-	-
Moderate risk (%)	-	-	-	-	-	-	-	-	-
Low risk (%)	-	-	-	-	-	-	-	-	-
No risk (%)	-	-	-	-	-	-	-	-	-
Don't know (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
High risk (%)	-	-	-	-	10	-	-	15	-
Moderate risk (%)	-	-	-	-	40	-	-	42	-
Low risk (%)	-	-	-	-	33	-	-	30	-
No risk (%)	-	-	-	-	5	-	-	5	-
Don't know (%)	-	-	-	-	11	-	-	8	-
No response (%)	-	-	-	-	0	-	-	0	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
High risk (%)	=	-	18	16	13	14	20	19	17
Moderate risk (%)	-	-	38	40	42	41	43	37	38
Low risk (%)	-	-	31	33	34	31	26	31	30
No risk (%)	-	-	7	5	5	7	5	6	6
Don't know (%)	-	-	7	5	6	7	6	7	8
No response (%)	-	-	0	0	-	0	0	0	-

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
High risk (%)	18	16
Moderate risk (%)	38	36
Low risk (%)	32	34
No risk (%)	6	7
Don't know (%)	6	7
No response (%)	-	0





#### Extreme heat

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	13
Moderately worried (%)	-	-	-	-	-	-	-	-	21
A little worried (%)	-	-	-	-	-	-	-	-	29
Not at all worried (%)	-	-	-	-	-	-	-	-	36
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	11	13	14	12	11	13	22	21	23
Moderately worried (%)	21	23	22	22	21	23	25	23	26
A little worried (%)	29	34	28	32	33	32	29	26	26
Not at all worried (%)	39	30	36	33	35	31	24	28	25
No response (%)	-	0	0	0	0	0	0	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	21	18
Moderately worried (%)	24	23
A little worried (%)	28	29
Not at all worried (%)	27	29
No response (%)	1	1





#### **Flooding**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	7
Moderately worried (%)	-	-	-	-	-	-	-	-	22
A little worried (%)	-	-	-	-	-	-	-	-	31
Not at all worried (%)	-	-	-	-	-	-	-	-	39
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	6	9	9	6	7	6	9	11	13
Moderately worried (%)	17	19	19	17	12	15	18	18	20
A little worried (%)	38	32	30	37	33	35	35	33	32
Not at all worried (%)	39	40	41	40	47	44	38	38	35
No response (%)	0	0	1	1	1	0	0	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	9	7
Moderately worried (%)	17	16
A little worried (%)	31	35
Not at all worried (%)	43	42
No response (%)	0	0





#### Wildfires

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	9
Moderately worried (%)	-	-	-	-	-	-	-	-	12
A little worried (%)	-	-	-	-	-	-	-	-	21
Not at all worried (%)	-	-	-	-	-	-	-	-	57
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	9	9	10	9	10	11	14	16	16
Moderately worried (%)	13	14	13	12	12	14	13	17	19
A little worried (%)	20	25	20	25	24	23	25	28	27
Not at all worried (%)	59	51	56	52	54	52	48	38	37
No response (%)	0	0	0	1	0	0	1	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	12	9
Moderately worried (%)	14	15
A little worried (%)	24	28
Not at all worried (%)	49	48
No response (%)	0	0





#### Hurricanes

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	9
Moderately worried (%)	-	-	-	-	-	-	-	-	12
A little worried (%)	-	-	-	-	-	-	-	-	17
Not at all worried (%)	-	-	-	-	-	-	-	-	62
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	8	9	9	8	8	7	10	12	12
Moderately worried (%)	12	14	13	13	12	9	14	14	15
A little worried (%)	20	16	18	20	19	19	23	20	21
Not at all worried (%)	59	60	59	58	61	64	53	53	51
No response (%)	0	0	1	1	0	0	1	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	8	7
Moderately worried (%)	12	11
A little worried (%)	21	20
Not at all worried (%)	59	61
No response (%)	0	0





#### **Droughts**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	11
Moderately worried (%)	-	-	-	-	-	-	-	-	19
A little worried (%)	-	-	-	-	-	-	-	-	31
Not at all worried (%)	-	-	-	-	-	-	-	-	39
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	10	10	11	9	10	9	16	19	24
Moderately worried (%)	17	21	20	17	18	19	19	21	22
A little worried (%)	31	34	30	39	36	33	33	29	29
Not at all worried (%)	42	35	39	35	36	39	32	31	25
No response (%)	0	0	1	0	0	0	0	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	15	11
Moderately worried (%)	20	18
A little worried (%)	34	34
Not at all worried (%)	31	36
No response (%)	1	0





#### Water shortages

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	9
Moderately worried (%)	-	-	-	-	-	-	-	-	17
A little worried (%)	-	-	-	-	-	-	-	-	25
Not at all worried (%)	-	-	-	-	-	-	-	-	48
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	8	10	9	10	9	9	15	20	21
Moderately worried (%)	14	17	18	15	15	17	17	21	23
A little worried (%)	29	31	27	31	30	30	32	27	28
Not at all worried (%)	49	41	45	44	45	43	36	32	27
No response (%)	0	0	0	0	0	0	0	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	13	11
Moderately worried (%)	17	16
A little worried (%)	30	29
Not at all worried (%)	39	43
No response (%)	1	1





#### Reduced snow pack

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	5
Moderately worried (%)	-	-	-	-	-	-	-	-	10
A little worried (%)	-	-	-	-	-	-	-	-	16
Not at all worried (%)	-	-	-	-	-	-	-	-	68
No response (%)	-	-	-	-	-	-	-	-	1

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	5	4	5	5	6	7	10	11	11
Moderately worried (%)	11	10	12	10	12	11	14	15	17
A little worried (%)	21	19	20	23	18	20	23	18	21
Not at all worried (%)	63	66	62	62	64	61	53	55	50
No response (%)	0	0	1	0	0	1	0	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	6	7
Moderately worried (%)	11	10
A little worried (%)	19	20
Not at all worried (%)	64	62
No response (%)	0	1





#### Rising sea levels

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	-	-	-	-	6	6	8	13	12
Moderately worried (%)	-	-	-	-	10	11	14	14	18
A little worried (%)	-	-	-	-	22	24	25	22	22
Not at all worried (%)	-	-	-	-	61	59	52	51	47
No response (%)	-	-	-	-	0	0	1	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	8	6
Moderately worried (%)	13	12
A little worried (%)	20	20
Not at all worried (%)	58	61
No response (%)	0	1





#### Agricultural pests and diseases

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	-	-	-	-	7	8	9	14	14
Moderately worried (%)	-	-	-	-	16	17	20	25	25
A little worried (%)	-	-	-	-	40	40	37	31	35
Not at all worried (%)	-	-	-	-	36	35	33	30	25
No response (%)	-	-	-	-	0	0	0	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	8	7
Moderately worried (%)	18	18
A little worried (%)	35	39
Not at all worried (%)	39	36
No response (%)	1	0





#### **Tornados**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	-	-	-	-	7	6	6	13	13
Moderately worried (%)	-	-	-	-	16	15	19	20	18
A little worried (%)	-	-	-	-	30	32	33	27	31
Not at all worried (%)	-	-	-	-	46	47	41	40	38
No response (%)	-	-	-	-	0	0	0	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	10	8
Moderately worried (%)	16	17
A little worried (%)	31	30
Not at all worried (%)	43	44
No response (%)	1	0





#### Air pollution

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	-	-	-	-	12	12	17	18	22
Moderately worried (%)	-	-	-	-	24	23	22	31	29
A little worried (%)	-	-	-	-	37	36	37	25	27
Not at all worried (%)	-	-	-	-	26	28	23	26	21
No response (%)	-	-	-	-	0	1	0	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	17	14
Moderately worried (%)	22	24
A little worried (%)	34	35
Not at all worried (%)	27	26
No response (%)	1	1





### Water pollution

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	-	-	-	-	12	14	15	20	24
Moderately worried (%)	-	-	-	-	21	23	24	27	26
A little worried (%)	-	-	-	-	41	36	34	30	29
Not at all worried (%)	-	-	-	-	26	26	27	23	20
No response (%)	-	-	-	-	0	0	0	1	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	16	13
Moderately worried (%)	21	21
A little worried (%)	35	34
Not at all worried (%)	27	32
No response (%)	0	1





#### **Electricity power outages**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013	Nov 2013
Unweighted Base	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045	830
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
Unweighted Base	1,013	1,275	1,263	1,330	1,204	1,226	1,266	1,304	1,278
Very worried (%)	-	-	-	-	-	-	-	-	-
Moderately worried (%)	-	-	-	-	-	-	-	-	-
A little worried (%)	-	-	-	-	-	-	-	-	-
Not at all worried (%)	-	-	-	-	-	-	-	-	-
No response (%)	-	-	-	-	-	-	-	-	-

	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021	Sep 2021	Apr 2022	Dec 2022
Unweighted Base	1,114	1,291	1,303	1,029	1,036	1,037	1,006	1,018	1,085
Very worried (%)	-	-	-	-	-	-	13	18	18
Moderately worried (%)	-	-	-	-	-	-	24	27	28
A little worried (%)	-	-	-	-	-	-	37	34	34
Not at all worried (%)	-	-	-	-	-	-	25	22	20
No response (%)	-	-	-	-	-	-	0	0	1

	Apr 2023	Oct 2023
Unweighted Base	1,011	1,033
Very worried (%)	13	11
Moderately worried (%)	22	24
A little worried (%)	37	39
Not at all worried (%)	28	26
No response (%)	1	0





### **Appendix II: Survey Method**

The data in this report are based on a nationally representative survey of 1,033 American adults, aged 18 and older. The survey was conducted October 20 –26, 2023. All questionnaires were self-administered by respondents in a web-based environment. The median completion time for the survey was 22 minutes.

The sample was drawn from the Ipsos KnowledgePanel®, an online panel of members drawn using probability sampling methods. Prospective members are recruited using a combination of random digit dial and address-based sampling techniques that cover virtually all (non-institutional) resident phone numbers and addresses in the United States. Those contacted who would choose to join the panel but do not have access to the Internet are loaned computers and provided Internet access so they may participate.

The sample therefore includes a representative cross-section of American adults – irrespective of whether they have Internet access, use only a cell phone, etc. Key demographic variables were weighted, post survey, to match US Census Bureau norms.

From November 2008 to December 2018, no KnowledgePanel® member participated in more than one *Climate Change in the American Mind* (CCAM) survey. Beginning with the April 2019 survey, panel members who have participated in CCAM surveys in the past, excluding the most recent two surveys, may be randomly selected for participation. In the current survey, 276 respondents participated in a previous CCAM survey.

The survey instrument was designed by Anthony Leiserowitz, Seth Rosenthal, Jennifer Carman, Marija Verner, Matthew Ballew, Sanguk Lee, Matthew Goldberg, and Jennifer Marlon of Yale University, and Edward Maibach, John Kotcher, Teresa Myers, Nicholas Badullovich, and Kathryn Thier of George Mason University. The figures and tables were constructed by Emily Goddard of Yale University.





#### Sample details and margins of error

All samples are subject to some degree of sampling error – that is, statistical results obtained from a sample can be expected to differ somewhat from results that would be obtained if every member of the target population were interviewed. Average margins of error for each wave of CCAM, at the 95% confidence level, are plus or minus 3 percentage points except where noted.

- October 2023: Fielded October 20 26 (n = 1,033)
- April 2023: Fielded April  $18 \text{May } 1 \ (n = 1,011)$
- December 2022: Fielded December 2 12 (n = 1,085)
- April 2022: Fielded April 13 May 2 (n = 1,018)
- September 2021: Fielded September 10 20 (n = 1,006)
- March 2021: Fielded March 18 29 (n = 1,037)
- December 2020: Fielded December 3 16 (n = 1,036)
- April 2020: Fielded April 7 17 (n = 1,029)
- November 2019: Fielded November 8 20 (n = 1,303)
- April 2019: Fielded March 29 April 8 (n = 1,291)
- December 2018: Fielded November 28 December 11 (n = 1,114)
- March 2018: Fielded March 7 24 (n = 1,278)
- October 2017: Fielded October 20 November 1 (n = 1,304)
- May 2017: Fielded May  $18 \text{June } 6 \ (n = 1,266)$
- November 2016: Fielded November 18 December 1 (n = 1,226)
- March 2016: Fielded March 18 31 (n = 1,204)
- October 2015: Fielded September 30 October 19 (n = 1,330)
- March 2015: Fielded February 27 March 10 (n = 1,263)
- October 2014: Fielded October 17 28 (n = 1,275)
- April 2014: Fielded April 15 22 (n = 1,013)
- November 2013: Fielded November 23 December 9 (n = 830)
- April 2013: Fielded April 10 15 (n = 1,045)
- September 2012: Fielded August 31 September 12 (n = 1,061)
- March 2012: Fielded March 12 30 (n = 1,008)
- November 2011: Fielded October 20 November 16 (n = 1,000)
- May 2011: Fielded April 23 May 12 (n = 1,010)
- June 2010: Fielded May  $14 \text{June } 1 \ (n = 1,024)$
- January 2010: Fielded December 24, 2009 January 3, 2010 (*n* = 1,001).
- November 2008: Fielded October 7 November 12 (n = 2,164).
  - Data were collected over two periods: from October 7 October 20 and from October 24 November 12. Margin of error plus or minus 2 percentage points.

#### Rounding error and tabulation

In data tables, bases specified are unweighted, while percentages are weighted to match national population parameters.

For tabulation purposes, percentage points are rounded to the nearest whole number. As a result, percentages in a given figure or table may total slightly higher or lower than 100%. Summed response categories (e.g., "strongly agree" + "somewhat agree") are rounded after sums are calculated. For example, in some cases, the sum of 25% + 25% might be reported as 51% (e.g., 25.3% + 25.3% = 50.6%, which, after rounding, would be reported as 25% + 25% = 51%).





## **Appendix III: Sample Demographics**

	n (unweighted)	% (weighted)
Total	1,033	100
Female	512	51
Male	521	49
Generation Z (1997 - )	65	11
Millennials (1981 - 1996)	231	27
Generation X (1965 - 1980)	262	25
Baby Boomers (1946 - 1964)	377	30
Silent (1928 - 1945)	98	7
Less than high school	56	9
High school	251	29
Some college	280	26
Bachelor's degree or higher	446	36
<\$25K	90	11
\$25K-<\$50K	175	15
\$50K-<\$75K	161	15
\$75K-<\$100K	153	13
\$100K-<\$125K	117	11
\$125K+	337	34
White, Non-Hispanic	715	61
Black, Non-Hispanic	104	12
Hispanic	141	17
2+ Races, Non-Hispanic	36	2
Other, Non-Hispanic	37	7
Northeast	181	17
Midwest	217	21
South	407	39
West	228	24



