CLIMATE CHANGE IN THE AMERICAN MIND

April 2019

VALE PROGRAM ON Climate Change Communication



GEORGE MASON UNIVERSITY CENTER for CLIMATE CHANGE COMMUNICATION

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Introduction

This report is based on findings from a nationally representative survey – Climate Change in the American Mind – conducted by the Yale Program on Climate Change Communication (climatecommunication.yale.edu) and the George Mason University Center for Climate Change Communication (climatechangecommunication.org). Interview dates: March 29-April 8, 2019. Interviews: 1,291 adults in the U.S. (18+). Average margin of error +/- 3 percentage points at the 95% confidence level. The research was funded by the 11th Hour Project, the Endeavor Foundation, the Energy Foundation, the TomKat Foundation, and the MacArthur Foundation. A special thank you goes to Parrish Bergquist, Ph.D. and Matto Mildenberger, Ph.D. for creating an automated version of this report.

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1 Executive Summary

- About seven in ten Americans (69%) think global warming is happening. Only about one in six Americans (16%) think global warming is not happening. Americans who think global warming is happening outnumber those who think it isn't by more than a 4 to 1 ratio.
- Many Americans are certain that global warming is happening; 46% are "extremely" or "very" sure it is happening. By contrast, far fewer (8%) are "extremely" or "very sure" global warming is not happening.
- A majority of Americans (55%) understand that global warming is mostly human-caused. By contrast, only about one in three (32%) think it is due mostly to natural changes in the environment.
- More than half of Americans (53%) understand that most scientists think global warming is happening. However, only about one in six (17%) understand how strong the level of consensus among scientists is (i.e., that more than 90% of climate scientists think human-caused global warming is happening).
- About six in ten Americans (62%) say they are at least "somewhat worried" about global warming. More than one in five (23%) are "very worried" about it.
- Nearly four in ten Americans (38%) say they have personally experienced the effects of global warming.
- About four in ten Americans (38%) think people in the United States are being harmed by global warming "right now."
- More than four in ten Americans (44%) think they will be harmed by global warming, while more think their family (48%), and/or people in their community (48%) will be harmed. More than half of Americans think global warming will harm people in the U.S. (59%), people in developing countries (64%), the world's poor (64%), future generations of people (69%), and/or plant and animal species (71%).
- More than six in ten Americans (64%) say the issue of global warming is either "extremely," "very," or "somewhat" important to them personally, while about one in three (36%) say it is either "not too" or "not at all" personally important.
- About six in ten Americans (63%) say they "rarely" or "never" discuss global warming with family and friends, while 37% say they do so "occasionally" or "often".
- About half of Americans (51%) say they hear about global warming in the media at least once a month. Fewer (23%) say they hear people they know talking about global warming at least once a month.
- Fewer than half of Americans perceive a social norm in which their friends and family expect them to take action on global warming. Forty-five percent think it is at least moderately important to their family and friends that they take action (an injunctive norm), and about four in ten (41%) say their family and friends make at least a moderate effort to reduce global warming (a descriptive norm).
- About half of Americans (54%) say they have thought about global warming more than "a little."
- Very few Americans (12%) think it is too late to do anything about global warming, and only four in ten (40%) think the actions of a single individual won't make any difference in global warming. About half of Americans (49%) think new technologies can solve global warming without individuals having to make big changes in their lives.
- Majorities of Americans think of global warming as an environmental (75%), scientific (69%), severe weather (64%), agricultural (63%), health (58%), political (57%), economic (54%) and/or humanitarian (51%) issue. Fewer think it is a moral (38%), poverty (29%), national security (27%), social justice (24%), and/or religious issue (9%).
- Six in ten Americans (60%) think global warming is affecting weather in the United States, and about three in ten think weather is being affected "a lot" (28%).
- A majority of Americans are worried about harm from extreme events in their local area including extreme heat (69%), droughts (64%), flooding (60%), and/or water shortages (59%).

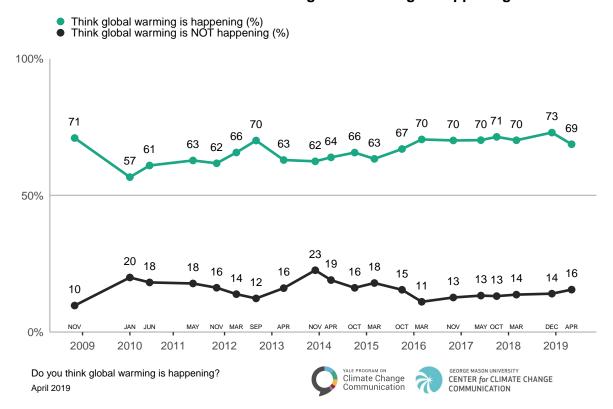
Please note: In consultation with independent statisticians and survey methodologists, we and Ipsos KnowledgePanel[®] (our survey provider) have slightly modified the sampling method for our current and future surveys. In the past, KnowledgePanel[®] members who had participated in one of our prior surveys were not eligible to participate in any subsequent *Climate Change in the American Mind* studies. Details about our modified sampling method are described in Appendix II.

2 Global Warming Beliefs

2.1 About seven in ten Americans think global warming is happening

Americans who think global warming is happening outnumber those who think it is not by more than 4 to 1.

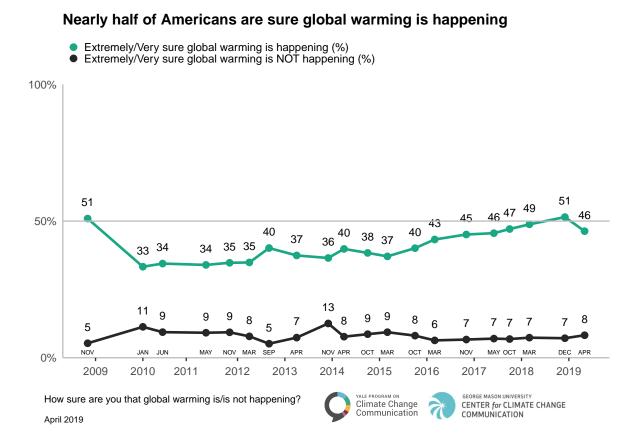
About seven in ten Americans (69%) think global warming is happening. By contrast, only about one in six Americans (16%) think global warming is not happening.





2.2 Nearly half of Americans are "extremely" or "very" sure global warming is happening. Fewer than one in ten are as sure it isn't happening.

Forty-six percent of Americans are either "extremely" or "very" sure global warming is happening. Far fewer (8%) are "extremely" or "very" sure global warming is not happening.

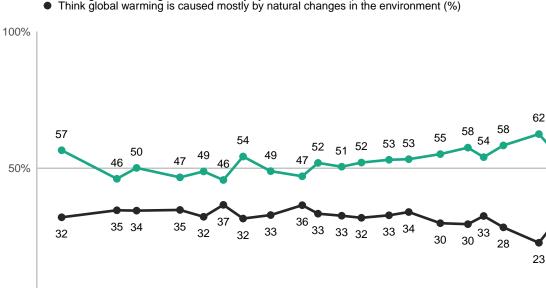


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More than half of Americans think global warming is mostly human-caused. 2.3

The 2018 U.S. National Climate Assessment (written and reviewed by hundreds of climate experts over the course of four years) states: "Greenhouse gas emissions from human activities are the only factors that can account for the observed warming over the last century; there are no credible alternative human or natural explanations supported by the observational evidence" (pp. 39-40).¹

A majority of Americans (55%) understand that global warming is mostly human-caused. By contrast, about one in three (32%) think it is due mostly to natural changes in the environment.



APR

2013

NOV APR

2014

More than half of Americans think global warming is mostly human-caused

NOV MAR SEP

2012

MAY

- 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... April 2019

2011

JAN JUN

2010



OCT MAR

2015

OCT MAR

2016

NOV

2017

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MAY OCT MAR

2018

55

32

DEC APR

2019

NOV

2009

0%

¹http://nca2018.globalchange.gov

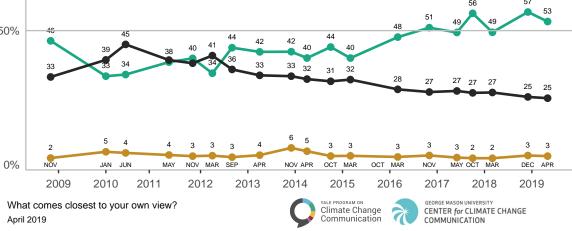
2.4 More than half of Americans understand that most scientists think global warming is happening.

A recent review study by John Cook and colleagues² found that six, independent, peer-reviewed studies about the extent of the scientific consensus about global warming have reached similar conclusions: between 90% and 100% of climate scientists are convinced that human-caused climate change is happening. The most rigorous of these studies found that 97% of climate scientists are convinced that human-caused climate change is happening.

Now, more than half of Americans (53%) understand most scientists think global warming is happening, an increase of four percentage points since our March 2018 survey, and a large increase (+20 percentage points) since the lowest level for this response in 2010. By contrast, one in four Americans (25%) think there is a lot of disagreement among scientists about whether or not global warming is happening, the lowest level since our surveys began. Very few Americans (3%) believe that most scientists think global warming is not happening.

most scientists think global warming is happening Most scientists think global warming is happening (%) • Most scientists think global warming is NOT happening (%) There is a lot of disagreement among scientists (%) 100% 50%

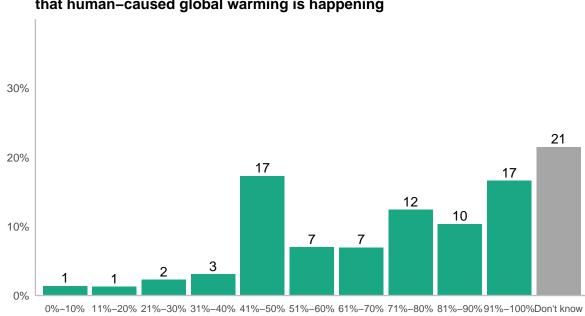




²Cook, J., Oreskes, N., Doran, P. T., Anderegg, W. R. I., Verheggen, B., Maibach, E. W., Carlton, J. S., Lewandowsky, S., Skuce, A. G., Green, S. A., Nuccitelli, D., Jacobs, P., Richardson, M., Winkler, B., Painting, R., & Rice., K. (2016). Consensus on consensus: A synthesis of consensus estimates on human-caused global warming. *Environmental Research Letters* 11(4). doi:10.1088/1748-9326/11/4/048002

2.5 Only about one in six Americans understand that almost all climate scientists (more than 90%) have concluded that human-caused global warming is happening.

Although the majority of Americans now understand that most scientists think global warming is happening, fewer understand just how strong the level of consensus among scientists is. Only about one in six Americans (17%) understand that nearly all climate scientists (more than 90%) are convinced that human-caused global warming is happening. A higher proportion of Americans (21%) say they "don't know" what percentage of climate scientists think human-caused climate change is happening.³



Only one in six Americans understand that almost all climate scientists (more than 90%) have concluded that human-caused global warming is happening

To the best of your knowledge, what percentage of climate scientists think that human–caused global warming is happening? Please click on the slider bar below to indicate your answer. You can slide the indicator to the position that best describes your opinion. If the slider does not work, you can enter a number in the number box. April 2019
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Public misunderstanding of the scientific consensus – which has been found in each of our surveys since 2008 – has significant consequences. Other research has identified public understanding of the scientific consensus as an important "gateway belief" that influences other important beliefs (i.e., that global warming is happening, human-caused, and worrisome) and support for action.⁴

 $^{^{3}}$ Respondents were asked to estimate the percentage of climate scientists who have concluded that human-caused global warming is happening by moving a simulated slider bar which appeared on the screen of their computer. This slider allowed respondents to move the marker from 0% on the left to 100% on the right, or to any whole number between the two. A "don't know" response option appeared below the slider bar.

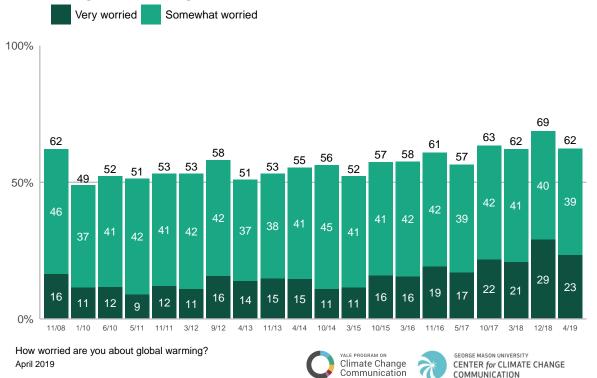
⁴For more information, see: van der Linden, S. L., Leiserowitz, A. A., Feinberg, G. D., & Maibach, E. W. (2015). The scientific consensus on climate change as a gateway belief: Experimental evidence. *PLoS ONE, 10*(2).

3 Emotional Responses to Global Warming

3.1 About six in ten Americans are at least "somewhat worried" about global warming.

About six in ten Americans (62%) say they are at least "somewhat worried" about global warming. More than one in five Americans (23%) are "very worried."

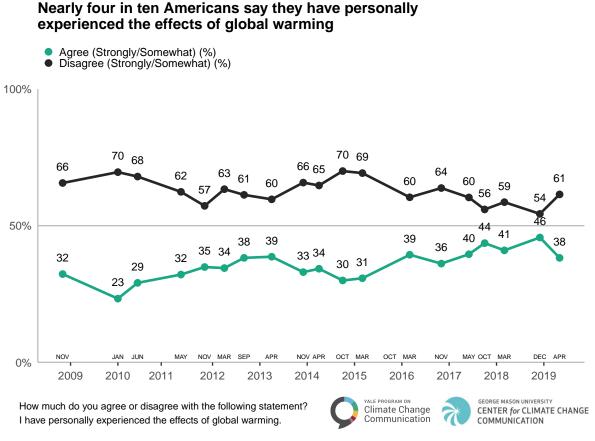
About six in ten Americans are at least 'somewhat worried' about global warming



4 Perceived Risks of Global Warming

4.1 Nearly four in ten Americans say they have personally experienced the effects of global warming.

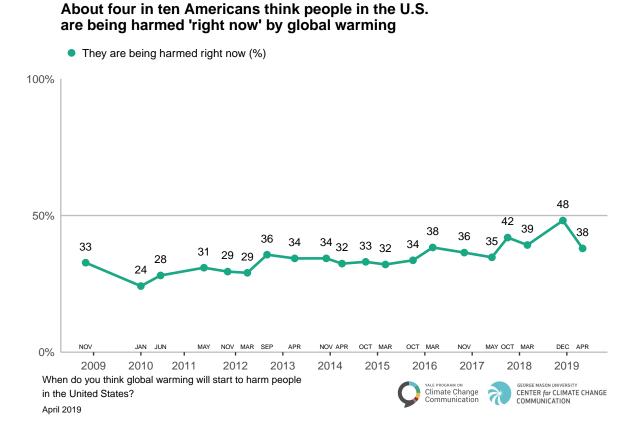
Nearly four in ten Americans (38%) say they have personally experienced the effects of global warming, while about six in ten (61%) say they have not.



April 2019

4.2 About four in ten Americans think people in the U.S. are being harmed "right now" by global warming.

About four in ten (38%) think people in the U.S. are being harmed by global warming "right now."



4.3 Many Americans think they will be harmed by global warming, but they think others will be harmed more.

Many Americans understand that global warming will cause harm. Americans are most likely to think that plant and animal species (71%) and/or future generations of people (69%) will be harmed a "moderate amount" or a "great deal" by global warming. About half or more also think the world's poor (64%), people in developing countries (64%), people in the U.S. (59%), people in their community (48%), and/or their family (48%) will be harmed. Americans are least likely to think they themselves will be harmed (44%).

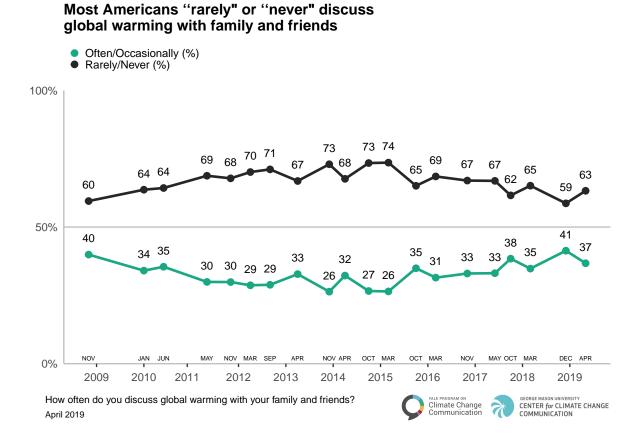
A great deal A moderate amount 100% 71 69 64 64 59 48 50% 48 44 28 29 52 52 44 42 30 19 18 14 0% People in People in the People in Plant/animal You personally Your family The world's Future your community U.S. developing poor generations species countries of people How much do you think global warming will harm ...? GEORGE MASON UNIVERSITY CENTER for CLIMATE CHANGE COMMUNICATION April 2019 Climate Change Communication 1

Many Americans think they will be harmed by global warming – But think others will be harmed more –

5 Personal and Social Engagement with Global Warming

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

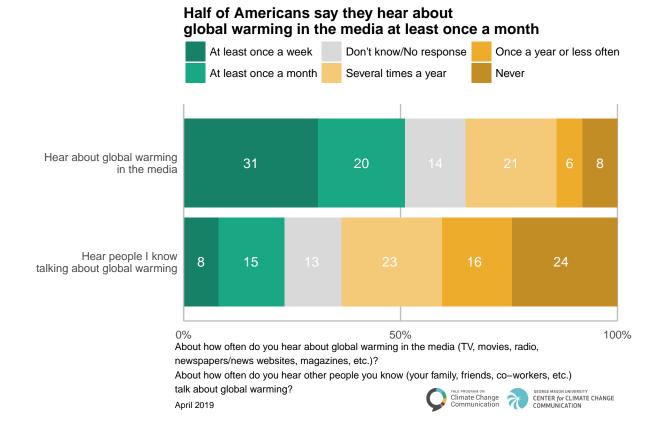
About six in ten Americans (63%) say they "rarely" or "never" discuss global warming with family and friends, while 37% say they do so "occasionally" or "often."



5.2 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 frequently, an increase of eight percentage points since our March 2018 survey. About one in four Americans (27%) say they hear about it in the media only several times a year or less, and 8% say they never hear about it.

Only about one in four Americans (23%) say they hear people they know talking about global warming once a month or more. In contrast, 39% say they hear people they know talking about it only several times a year or less, and about one in four (24%) say they never hear people they know talk about global warming.

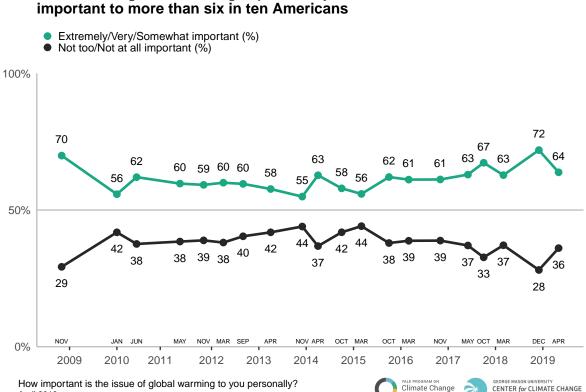


16

The issue of global warming is personally important to more than six in ten 5.3 Americans.

The issue of global warming is personally

More than six in ten Americans (64%) say the issue of global warming is either "extremely" (12%), "very" (18%), or "somewhat" (33%) important to them personally. About one in three (36%) say global warming is either "not too" (19%) or "not at all" (17%) personally important.

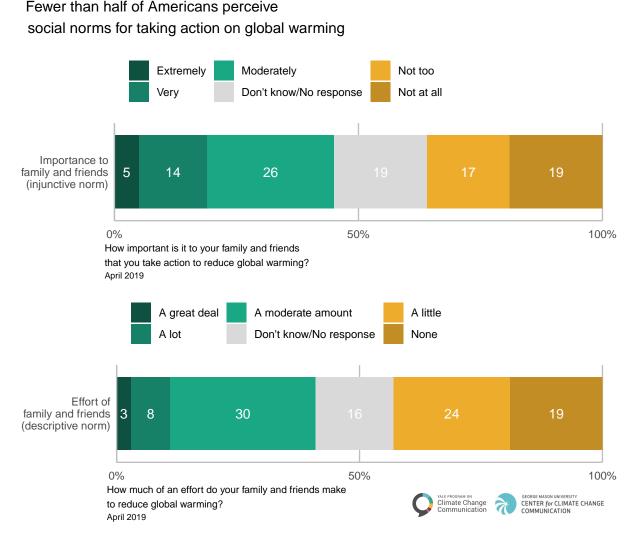


How important is the issue of global warming to you personally? April 2019

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5.4 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.⁵⁶⁷⁸

Fewer than half of Americans (45%) perceive an injunctive norm, saying it is either "extremely" (5%), "very" (14%), or "moderately" important (26%) to their family and friends that they take action to reduce global warming. About four in ten Americans (41%) perceive a descriptive norm, saying their family and friends make either "a great deal of effort" (3%), "a lot of effort" (8%), or "a moderate amount of effort" (30%) to reduce global warming.

⁵Ballew, M. T., Goldberg, M. H., Rosenthal, S. A., Cutler, M. J., & Leiserowitz, A. (2019). Climate change activism among Latino and White Americans. *Frontiers in Communication*, *3*(58), 1-15. https://www.frontiersin.org/articles/10.3389/fcomm.2018.00058/full

⁶Cialdini, R. B. (2003). Crafting normative messages to protect the environment. Current Directions in Psychological Science, 12(4), 105-109. https://journals.sagepub.com/doi/10.1111/1467-8721.01242

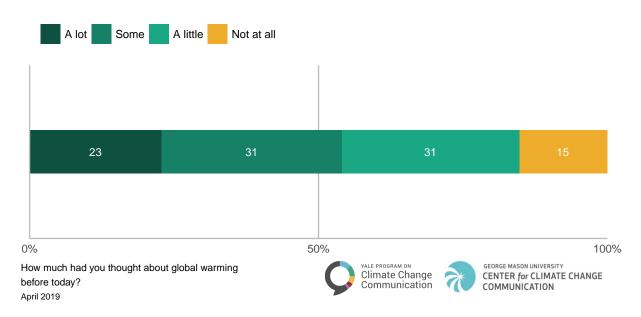
⁷Doherty, K. L., & Webler, T. N. (2016). Social norms and efficacy beliefs drive the Alarmed segment's public-sphere climate actions. *Nature Climate Change*, 6, 879-884. https://www.nature.com/articles/nclimate3025

⁸Schultz, 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. https://journals.sagepub.com/doi/10.1111/j.1467-9280.2007.01917.x

5.5 About half of Americans have thought about global warming more than "a little."

About half of Americans say they have thought about global warming before today either "a lot" (23%) or "some" (31%). Fewer say they have thought about global warming just "a little" (31%) or "not at all"(15%).

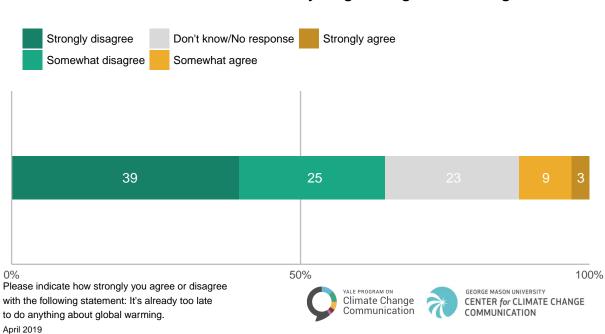
About half of Americans have thought about global warming more than "a little"



6 Efficacy Beliefs

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

Only about one in eight Americans (12%) agree either strongly (3%) or somewhat (9%) that it is too late to do anything about global warming. In contrast, almost two in three Americans (64%) are more optimistic – they either strongly (39%) or somewhat (25%) disagree that it is too late to do anything about global warming.

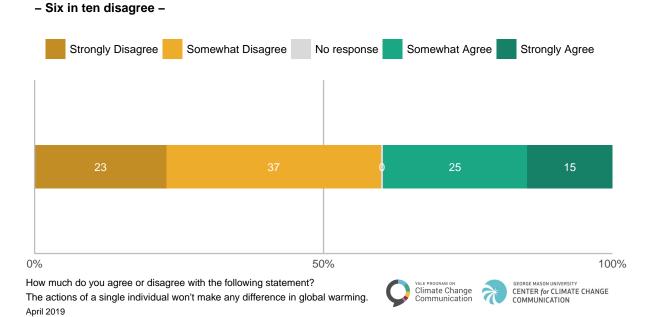


Few Americans think it is too late to do anything about global warming

6.2 Four in ten Americans think the actions of a single individual won't make any difference in global warming.

Four in ten (40%) Americans think the actions of a single individual won't make any difference in global warming. A majority of Americans (60%) disagree with this statement.

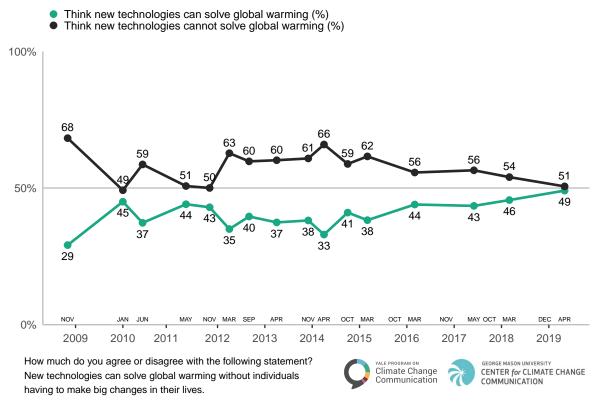
Four in ten Americans think the actions of a single individual won't make any difference in global warming



6.3 About half of Americans think new technologies can solve global warming.

About half of Americans (49%) think new technologies can solve global warming without individuals having to make big changes in their lives. There has been an upward trend in this belief over the past five years, with the percentage increasing by 16 percentage points since April 2014.

About half of Americans think new technologies can solve global warming



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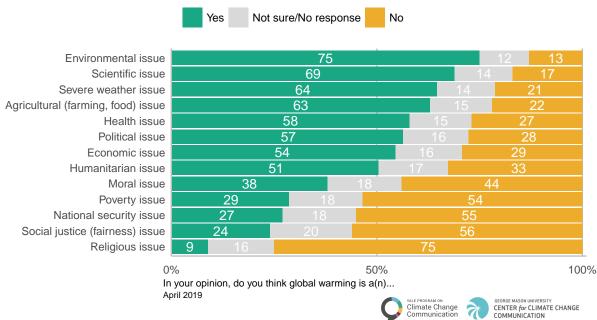
7 How Americans Conceptualize Global Warming

7.1 Americans are most likely to think of global warming as an environmental and/or scientific issue.

Global warming is a complex challenge with many dimensions. Understanding how people conceptualize the issue is critical to formulating effective communication strategies. To better understand how Americans think about global warming, we asked respondents to indicate what kind of issue, if any, they consider it to be: environmental, scientific, economic, health, moral, religious, etc.

A large majority of Americans (75%) think global warming is an environmental issue, and/or a scientific issue (69%). Majorities also think global warming is a severe weather (64%), agricultural (63%), health (58%), political (57%), economic (54%), and/or humanitarian (51%) issue.

Fewer consider global warming a moral (38%), poverty (29%), national security (27%), social justice (24%), and/or religious (9%) issue.



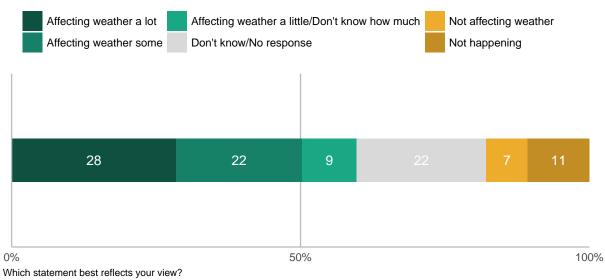
Americans are most likely to think of global warming as an environmental and/or scientific issue

8 Global Warming and Severe Weather

8.1 Six in ten Americans think global warming is affecting weather in the United States.

Six in ten Americans (60%) think global warming is affecting weather in the United States, including half (50%) who think global warming is affecting U.S. weather either "a lot" (28%) or "some" (22%).

Six in ten Americans think global warming is affecting weather in the United States



(a) Global warming is affecting weather in the U.S.; (b) Global warming is not affecting weather in the U.S.;

(c) Global warming isn't happening; (d) Don't know; (e) Prefer not to answer.

[If (a) selected]: How much do you think global warming

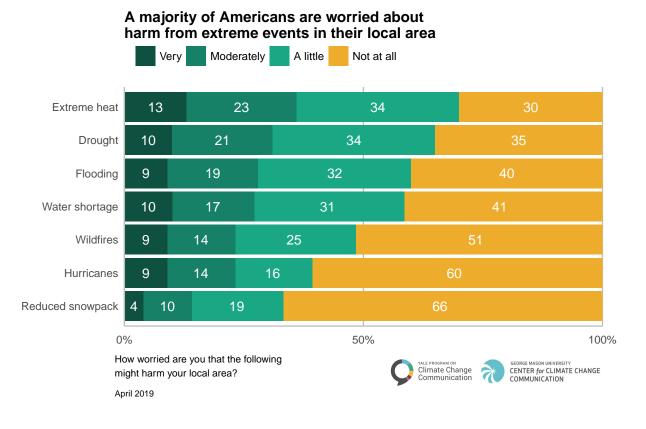
is affecting weather in the U.S.?

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8.2 A majority of Americans are worried about harm from extreme events in their local area.

A majority of Americans are at least "a little worried" about extreme events in their local areas, including extreme heat (69%), droughts (64%), flooding (60%), and/or water shortages (59%). Fewer are worried about wildfires (48%), hurricanes (40%), and/or reduced snow pack (33%).



9 Appendix I: Data Tables

Note: NaN = "No available number" (i.e., the question was not asked in that survey wave).

(Base: Americans 18+)

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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Yes (%)	71	57	61	63	62	66	70	63
No (%)	10	20	18	18	16	14	12	16
Don't Know (%)	19	22	21	18	19	20	18	20

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
Yes (%)	62	64	66	63	67	70	70	70
No (%)	23	19	16	18	15	11	13	13
Don't Know (%)	14	17	18	19	18	18	17	16

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Yes (%)	71	70	73	69
No (%)	13	14	14	16
Don't Know (%)	15	16	13	16

(Base: Americans 18+ who say global warming is happening)

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
(Unweighted Base)	1,537	567	624	634	617	662	743	658
Extremely sure (%)	35	24	20	21	22	19	27	27
Very sure (%)	37	35	36	33	34	34	30	33
Somewhat sure (%)	24	37	40	40	38	42	40	37
Not at all sure (%)	4	5	3	6	5	5	3	4

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	518	647	837	800	891	849	859	889
Extremely sure (%)	27	30	24	27	28	30	35	31
Very sure (%)	31	32	34	31	32	31	30	34
Somewhat sure (%)	39	33	38	38	37	34	32	33
Not at all sure (%)	3	4	4	3	3	4	4	2

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	931	897	813	887
Extremely sure (%)	34	41	42	39
Very sure (%)	31	29	28	28
Somewhat sure (%)	32	27	27	29
Not at all sure (%)	2	3	3	3

(Base: Americans 18+ who say global warming is <u>not</u> happening)

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	210	200	186	179	162	140	131	168
Extremely sure (%)	26	27	20	21	21	15	14	18
Very sure (%)	28	30	31	30	37	41	27	28
Somewhat sure (%)	38	33	44	38	36	35	45	42
Not at all sure (%)	8	7	4	11	5	8	13	12

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	188	193	206	227	206	133	155	169
Extremely sure (%)	20	15	23	21	21	20	24	26
Very sure (%)	35	26	30	31	32	37	29	26
Somewhat sure (%)	36	47	35	37	36	34	39	41
Not at all sure (%)	9	12	11	11	12	9	8	7

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	171	175	156	200
Extremely sure (%)	19	15	20	22
Very sure (%)	33	39	30	31
Somewhat sure (%)	39	35	41	36
Not at all sure (%)	9	12	8	11

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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Caused mostly by human activities (%)	57	46	50	47	49	46	54	49
Caused mostly by natural changes (%)	32	35	34	35	32	37	32	33
Neither, because it isn't happening (%)	4	9	6	8	8	5	7	8
Other (caused by human activities and natural changes) (%)	5	6	7	7	6	9	5	7
Other (unclassified) (%)	1	1	1	1	2	2	1	2

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
Caused mostly by human activities (%)	47	52	51	52	53	53	55	58
Caused mostly by natural changes (%)	36	33	33	32	33	34	30	30
Neither, because it isn't happening (%)	8	7	9	10	8	7	8	6
Other (caused by human activities and natural changes) (%)	5	5	6	4	5	5	5	6
Other (unclassified) (%)	3	1	1	1	1	1	1	1

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Caused mostly by human activities (%)	54	58	62	55
Caused mostly by natural changes (%)	33	28	23	32
Neither, because it isn't happening (%)	6	7	8	6
Other (caused by human activities and natural changes) (%)	6	5	6	6
Other (unclassified) (%)	1	1	0	1

What comes closest to your view?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Most scientists think global	46	33	34	38	40	34	44	42
warming is happening (%)								
Most scientists think global	2	5	4	4	3	3	3	4
warming is not happening								
(%)								
There is a lot of	33	39	45	39	38	41	36	33
disagreement among								
scientists about whether or								
not global warming is								
happening (%)								
Don't know enough to say	18	21	17	18	17	21	18	20
(%)								
Refused (%)	1	2	0	1	2	1	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	0	1,204	1,226	1,266
Most scientists think global warming is happening (%)	42	40	44	40	NaN	48	51	49
Most scientists think global warming is not happening (%)	6	5	3	3	NaN	3	3	3
There is a lot of disagreement among scientists about whether or not global warming is happening (%)	33	32	31	32	NaN	28	27	27
Don't know enough to say (%)	18	23	22	25	NaN	21	18	21
Refused (%)	1	0	0	0	NaN	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Most scientists think global	56	49	57	53
warming is happening (%)				
Most scientists think global	2	2	3	3
warming is not happening				
(%)				
There is a lot of	27	27	25	25
disagreement among				
scientists about whether or				
not global warming is				
happening (%)				
Don't know enough to say	14	21	14	19
(%)				
Refused (%)	0	0	0	0

To the best of your knowledge, what percentage of climate scientists think that human-caused global warming is happening? Please click on the slider bar below to indicate your answer. You can slide the indicator to the position that best describes your opinion. If the indicator does not work, you can enter a number in the number box.

	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	1,013	1,275	1,263	1,330	1,204	1,226	1,266
0%-10% (%)	1	1	1	2	1	2	2
11%-20% (%)	1	1	1	2	1	1	1
21%-30% (%)	5	4	4	4	4	7	4
31%-40% (%)	3	2	2	2	2	3	3
41%-50% (%)	15	15	14	12	13	13	13
51%-60% (%)	8	7	6	5	6	6	7
61%-70% (%)	7	7	8	6	8	7	6
71%-80% (%)	14	17	15	18	15	17	14
81%-90% (%)	7	7	8	10	8	9	10
91%-100% (%)	9	9	9	12	11	15	13
Don't know enough to say	28	29	31	27	32	21	28

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,113	1,291
0%-10% (%)	1	1	1	1
11%-20% (%)	1	1	1	1
21%-30% (%)	5	4	1	2
31%-40% (%)	3	1	2	3
41%-50% (%)	13	10	15	17
51%-60% (%)	5	4	6	7
61%-70% (%)	5	5	6	7
71%-80% (%)	17	15	15	12
81%-90% (%)	10	10	11	10
91%-100% (%)	15	15	20	17
Don't know enough to say	24	34	22	21

How worried are you about global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Very worried (%)	16	11	12	9	12	11	16	14
Somewhat worried (%)	46	37	41	42	41	42	42	37
Not very worried (%)	24	27	30	28	30	30	25	30
Not at all worried (%)	13	22	18	20	15	16	17	19
Refused (%)	1	2	0	1	2	1	0	0

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
Very worried (%)	15	15	11	11	16	16	19	17
Somewhat worried (%)	38	41	45	41	41	42	42	39
Not very worried (%)	26	27	26	29	27	25	24	27
Not at all worried (%)	20	18	18	19	16	18	15	17
Refused (%)	1	0	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Very worried (%)	22	21	29	23
Somewhat worried (%)	42	41	40	39
Not very worried (%)	23	22	19	23
Not at all worried (%)	14	16	13	14
Refused (%)	0	0	0	0

How much do you agree 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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Strongly Agree (%)	4	4	5	5	7	5	4	6
Somewhat Agree (%)	28	19	24	27	28	30	34	33
Somewhat Disagree (%)	42	32	34	32	34	30	30	29
Strongly Disagree (%)	24	37	34	30	23	33	31	31
Refused (%)	2	7	3	6	8	2	0	2

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	0	1,204	1,226	1,266
Strongly Agree (%)	6	5	4	4	NaN	7	7	5
Somewhat Agree (%)	27	29	26	27	NaN	33	29	34
Somewhat Disagree (%)	30	29	29	29	NaN	29	29	29
Strongly Disagree (%)	36	35	41	40	NaN	31	35	31
Refused (%)	1	1	0	0	NaN	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Strongly Agree (%)	8	5	11	6
Somewhat Agree (%)	36	36	35	32
Somewhat Disagree (%)	30	27	24	28
Strongly Disagree (%)	26	32	31	33
Refused (%)	0	0	0	0

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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
They are being harmed now (%)	33	24	28	31	29	29	36	34
In 10 years (%)	13	12	12	11	10	11	13	11
In 25 years (%)	13	13	11	13	13	13	11	12
In 50 years (%)	13	12	13	12	15	14	12	12
In 100 years (%)	12	13	14	11	15	15	13	13
Never (%)	14	23	19	19	16	15	15	17
Refused (%)	3	2	3	2	3	2	1	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
They are being harmed now (%)	34	32	33	32	34	38	36	35
In 10 years (%)	10	9	10	10	13	12	14	11
In 25 years (%)	14	14	14	13	14	13	15	13
In 50 years (%)	11	15	12	11	11	12	10	13
In 100 years (%)	12	14	13	13	10	10	9	13
Never (%)	18	16	18	20	18	14	16	15
Refused (%)	2	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
They are being harmed now (%)	42	39	48	38
In 10 years (%)	12	11	7	10
In 25 years (%)	12	12	14	13
In 50 years (%)	11	12	7	11
In 100 years (%)	11	11	9	12
Never (%)	12	15	14	15
Refused (%)	0	0	0	0

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

You personally

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	9	13	10	11	9	11	16	15
Moderate amount (%)	22	23	21	18	20	18	26	25
Only a little (%)	24	21	27	27	28	30	25	26
Not at all (%)	22	30	24	25	24	29	20	23
Don't know (%)	23	11	18	17	16	11	13	11
Refused (%)	1	2	0	2	3	1	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
A great deal (%)	13	13	12	10	14	12	14	13
Moderate amount (%)	25	25	24	26	27	28	27	29
Only a little (%)	27	26	26	26	26	24	25	26
Not at all (%)	26	25	27	25	20	23	25	22
Don't know (%)	8	10	11	13	12	12	8	9
Refused (%)	1	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	16	14	22	14
Moderate amount (%)	33	28	27	29
Only a little (%)	24	27	20	24
Not at all (%)	19	20	20	25
Don't know (%)	7	11	10	8
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

Your family

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	11	15	11	12	10	12	18	17
Moderate amount (%)	24	25	25	21	23	21	28	27
Only a little (%)	23	21	23	25	27	28	23	23
Not at all (%)	18	27	21	23	21	26	17	20
Don't know (%)	23	11	19	17	17	12	14	11
Refused (%)	1	2	0	2	2	1	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	0	1,204	1,226	1,266
A great deal (%)	17	16	15	13	NaN	15	17	16
Moderate amount (%)	25	27	28	28	NaN	30	30	31
Only a little (%)	25	24	23	23	NaN	22	24	25
Not at all (%)	24	21	23	22	NaN	21	21	19
Don't know (%)	8	11	11	13	NaN	12	8	9
Refused (%)	1	1	0	0	NaN	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	19	17	27	18
Moderate amount (%)	35	30	29	30
Only a little (%)	22	25	17	22
Not at all (%)	16	17	17	22
Don't know (%)	8	12	9	9
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

People in your community

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	13	15	11	12	10	12	19	17
Moderate amount (%)	26	27	25	21	23	21	29	28
Only a little (%)	20	21	23	25	26	29	23	23
Not at all (%)	17	24	21	21	20	24	15	18
Don't know (%)	23	11	19	18	17	13	13	13
Refused (%)	1	3	0	2	3	2	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	0	1,204	1,226	1,266
A great deal (%)	14	16	16	14	NaN	15	19	16
Moderate amount (%)	29	28	27	29	NaN	31	30	32
Only a little (%)	24	24	23	24	NaN	23	22	23
Not at all (%)	23	20	22	20	NaN	19	20	18
Don't know (%)	9	11	11	14	NaN	12	9	10
Refused (%)	1	1	0	0	NaN	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	21	17	27	19
Moderate amount (%)	34	32	30	30
Only a little (%)	22	22	16	22
Not at all (%)	15	16	16	21
Don't know (%)	8	12	10	8
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

People in the United States

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	21	22	16	16	15	18	26	22
Moderate amount (%)	28	28	28	26	28	28	31	30
Only a little (%)	15	15	21	22	23	23	17	18
Not at all (%)	13	21	17	17	16	17	12	16
Don't know (%)	22	12	17	18	16	12	13	12
Refused (%)	1	3	0	2	3	2	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
A great deal (%)	23	23	23	19	23	24	28	25
Moderate amount (%)	30	30	30	30	33	35	32	33
Only a little (%)	19	18	20	20	18	16	17	19
Not at all (%)	20	18	17	17	14	15	15	15
Don't know (%)	7	10	11	14	12	10	8	9
Refused (%)	1	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	34	28	38	30
Moderate amount (%)	33	30	27	28
Only a little (%)	14	18	12	15
Not at all (%)	11	12	13	17
Don't know (%)	7	12	10	9
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

People in developing countries

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	31	28	22	23	22	26	35	30
Moderate amount (%)	21	24	27	21	27	25	29	25
Only a little (%)	10	14	17	19	17	18	10	18
Not at all (%)	13	19	15	16	15	16	11	13
Don't know (%)	24	13	18	18	17	14	15	13
Refused (%)	1	2	0	2	3	2	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
A great deal (%)	32	31	29	27	34	36	40	37
Moderate amount (%)	24	24	26	26	27	27	25	25
Only a little (%)	17	17	16	17	13	12	12	16
Not at all (%)	19	16	17	15	13	13	13	13
Don't know (%)	8	11	12	15	13	12	11	9
Refused (%)	1	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	47	38	48	42
Moderate amount (%)	25	24	20	22
Only a little (%)	10	12	8	11
Not at all (%)	10	12	11	15
Don't know (%)	9	13	13	10
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

The world's poor

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	0	0	0	0	0	0	0
A great deal (%)	NaN							
Moderate amount (%)	NaN							
Only a little (%)	NaN							
Not at all (%)	NaN							
Don't know (%)	NaN							
Refused (%)	NaN							

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	1,259	1,330	1,204	1,226	1,266
A great deal (%)	NaN	NaN	NaN	30	36	40	43	39
Moderate amount (%)	NaN	NaN	NaN	23	25	22	21	23
Only a little (%)	NaN	NaN	NaN	16	12	12	11	15
Not at all (%)	NaN	NaN	NaN	16	13	13	13	13
Don't know (%)	NaN	NaN	NaN	15	13	14	12	10
Refused (%)	NaN	NaN	NaN	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	49	40	50	44
Moderate amount (%)	21	22	17	20
Only a little (%)	10	13	8	11
Not at all (%)	10	12	12	15
Don't know (%)	9	13	13	10
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

Future generations of people

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	43	41	39	36	40	42	47	42
Moderate amount (%)	17	21	22	22	21	22	21	21
Only a little (%)	7	9	11	10	13	12	9	12
Not at all (%)	10	15	12	11	9	11	8	12
Don't know (%)	22	12	16	18	15	13	14	12
Refused (%)	2	3	1	3	2	1	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
A great deal (%)	46	49	46	42	51	48	53	50
Moderate amount (%)	19	18	18	21	19	22	18	20
Only a little (%)	11	10	11	10	8	8	9	10
Not at all (%)	15	11	13	12	11	10	10	11
Don't know (%)	9	11	13	15	11	11	10	8
Refused (%)	1	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	54	52	59	52
Moderate amount (%)	21	18	16	17
Only a little (%)	8	9	6	9
Not at all (%)	9	9	9	13
Don't know (%)	8	12	10	9
Refused (%)	0	0	0	0

How much do you think global warming will harm...(Cont'd)?

Plant and animal species

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A great deal (%)	45	41	40	38	40	43	43	39
Moderate amount (%)	17	19	20	18	18	21	25	24
Only a little (%)	8	10	12	12	15	13	11	13
Not at all (%)	9	15	13	12	9	10	8	13
Don't know (%)	20	12	15	17	14	12	13	10
Refused (%)	2	3	1	2	3	1	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	0	1,204	1,226	1,266
A great deal (%)	46	47	44	42	NaN	48	50	49
Moderate amount (%)	19	19	20	21	NaN	23	19	22
Only a little (%)	11	12	10	12	NaN	9	10	10
Not at all (%)	15	12	13	12	NaN	11	11	11
Don't know (%)	7	10	12	13	NaN	10	9	8
Refused (%)	1	1	0	0	NaN	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
A great deal (%)	54	53	58	52
Moderate amount (%)	21	18	16	19
Only a little (%)	9	9	8	10
Not at all (%)	8	9	9	11
Don't know (%)	7	10	9	8
Refused (%)	0	0	0	0

How much do you agree or disagree with the following statements: New technologies can solve global warming without individuals having to make big changes in their lives

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Strongly disagree (%)	24	18	20	20	15	27	25	25
Somewhat disagree (%)	44	32	38	31	35	35	35	35
Somewhat agree (%)	25	40	31	37	37	29	34	32
Strongly agree (%)	4	5	6	7	6	6	5	5
Refused (%)	3	6	4	5	7	2	1	2

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	0	1,204	0	1,266
Strongly disagree (%)	26	27	26	25	NaN	22	NaN	19
Somewhat disagree (%)	34	39	33	36	NaN	33	NaN	37
Somewhat agree (%)	32	29	35	33	NaN	36	NaN	37
Strongly agree (%)	6	4	6	6	NaN	8	NaN	7
Refused (%)	1	1	0	0	NaN	0	NaN	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	0	1,278	0	1,291
Strongly disagree (%)	NaN	21	NaN	18
Somewhat disagree (%)	NaN	33	NaN	33
Somewhat agree (%)	NaN	38	NaN	39
Strongly agree (%)	NaN	8	NaN	10
Refused (%)	NaN	0	NaN	0

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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Often (%)	5	6	5	4	4	5	3	4
Occasionally (%)	35	29	30	26	26	24	26	28
Rarely (%)	33	34	39	41	39	40	38	39
Never (%)	26	30	25	28	29	30	34	28
Refused (%)	1	2	0	1	2	1	0	0

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
Often (%)	3	4	3	3	5	4	6	5
Occasionally (%)	23	28	24	23	29	27	27	28
Rarely (%)	38	39	36	38	33	36	36	36
Never (%)	34	29	37	36	32	32	31	31
Refused (%)	1	0	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Often (%)	6	5	8	6
Occasionally (%)	32	30	34	31
Rarely (%)	37	34	33	33
Never (%)	25	31	26	30
Refused (%)	0	0	0	0

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	0	1,266	1,304	1,278
At least once a week (%)	19	25	22	NaN	23	24	20
At least once a month (%)	21	23	22	NaN	20	28	23
Several times a year (%)	30	26	26	NaN	26	25	28
Once a year or less often (%)	8	8	8	NaN	9	7	9
Never (%)	6	6	7	NaN	9	3	7
Not sure (%)	15	11	15	NaN	11	13	12
Refused (%)	0	1	0	NaN	1	1	1

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

	Dec 2018	Apr 2019
(Unweighted Base)	1,114	1,291
At least once a week	34	31
(%)		
At least once a	22	20
month (%)		
Several times a year	22	21
(%)		
Once a year or less	5	6
often (%)		
Never (%)	6	8
Not sure (%)	8	13
Refused (%)	2	1

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	0	1,266	1,304	1,278
At least once a week (%)	4	6	5	NaN	6	7	5
At least once a month (%)	12	15	13	NaN	13	17	15
Several times a year (%)	23	22	25	NaN	21	24	24
Once a year or less often (%)	21	22	19	NaN	22	21	20
Never (%)	25	26	24	NaN	28	18	22
Not sure (%)	14	9	13	NaN	10	12	13
Refused (%)	0	1	1	NaN	1	1	1

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

	Dec 2018	Apr 2019
(Unweighted Base)	1,114	1,291
At least once a week	9	8
(%) At least once a month (%)	17	15
Several times a year	24	23
(%) Once a year or less often (%)	19	16
Never (%)	22	24
Not sure (%)	7	12
Refused (%)	1	1

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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Extremely important	10	5	6	7	6	6	6	8
(%)								
Very important (%)	20	14	18	15	13	14	17	13
Somewhat important	39	37	38	37	40	40	36	36
(%)								
Not too important (%)	18	23	24	24	24	23	24	24
Not at all important	11	19	14	14	15	16	17	18
(%)								
Refused (%)	1	2	0	2	2	2	0	0

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
Extremely important	8	8	5	6	7	9	10	10
(%)								
Very important (%)	14	17	16	15	18	17	17	16
Somewhat important	33	38	37	35	37	35	34	38
(%)								
Not too important (%)	25	21	24	24	21	21	22	22
Not at all important	18	16	18	20	17	17	16	15
(%)								
Refused (%)	1	0	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	1,114	1,291
Extremely important	12	10	16	12
(%)				
Very important (%)	19	18	24	18
Somewhat important	37	35	32	33
(%)				
Not too important (%)	19	22	15	19
Not at all important	14	15	14	17
(%)				
Refused (%)	0	0	0	0

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

	May 2017	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,266	0	0	1,114	1,291
A great deal of effort (%)	3	NaN	NaN	4	3
A lot of effort (%)	8	NaN	NaN	7	8
A moderate amount of effort	31	NaN	NaN	29	30
(%)					
A little effort (%)	29	NaN	NaN	29	24
No effort (%)	19	NaN	NaN	16	19
Don't know (%)	10	NaN	NaN	14	15
Refused (%)	0	NaN	NaN	1	1

(Base: Americans 18+)

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

	May 2017	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,266	0	0	1,114	1,291
Extremely important (%)	5	NaN	NaN	6	5
Very important (%)	13	NaN	NaN	13	14
Somewhat important (%)	27	NaN	NaN	27	26
Not too important (%)	23	NaN	NaN	19	17
Not at all important (%)	20	NaN	NaN	18	19
Don't know (%)	11	NaN	NaN	16	17
Refused (%)	0	NaN	NaN	1	2

Please indicate how strongly you agree or disagree with the following statement.

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

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	726	0	0	0	0	0	0	0
Strongly disagree (%)	30	NaN						
Somewhat disagree (%)	32	NaN						
Somewhat agree (%)	12	NaN						
Strongly agree (%)	2	NaN						
Don't know (%)	17	NaN						
Prefer not to answer (%)	3	NaN						
Refused (%)	3	NaN						

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	0	0	1,114	1,291
Strongly disagree (%)	NaN	NaN	38	39
Somewhat disagree (%)	NaN	NaN	28	25
Somewhat agree (%)	NaN	NaN	12	9
Strongly agree (%)	NaN	NaN	2	3
Don't know (%)	NaN	NaN	15	17
Prefer not to answer (%)	NaN	NaN	4	5
Refused (%)	NaN	NaN	1	1

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
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Strongly disagree (%)	24	16	15	18	13	21	19	19
Somewhat disagree (%)	44	35	41	34	40	34	34	35
Somewhat agree (%)	22	27	28	29	29	25	28	29
Strongly agree (%)	9	15	13	14	11	18	19	16
Refused (%)	2	6	3	6	7	2	1	2

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,273	1,263	0	1,204	0	1,266
Strongly disagree (%)	16	17	20	17	NaN	22	NaN	20
Somewhat disagree (%)	34	34	32	33	NaN	32	NaN	37
Somewhat agree (%)	31	32	29	33	NaN	31	NaN	26
Strongly agree (%)	17	15	19	17	NaN	15	NaN	17
Refused (%)	1	1	0	0	NaN	0	NaN	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	0	1,291
Strongly disagree (%)	22	20	NaN	23
Somewhat disagree (%)	37	36	NaN	37
Somewhat agree (%)	26	29	NaN	25
Strongly agree (%)	15	15	NaN	15
Refused (%)	0	0	NaN	0

How much had you thought about global warming before today?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	1,010	1,000	1,008	1,061	1,045
A lot (%)	20	14	17	12	14	15	17	16
Some (%)	35	30	37	33	30	30	32	30
A little (%)	32	35	32	37	38	39	34	37
Not at all (%)	12	18	13	16	16	16	17	16
Refused (%)	1	2	0	2	2	1	0	0

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	1,275	1,263	1,330	1,204	1,226	1,266
A lot (%)	14	16	14	15	17	16	20	18
Some (%)	30	35	31	29	34	35	27	31
A little (%)	37	34	35	35	33	33	37	33
Not at all (%)	17	15	20	21	17	16	16	17
Refused (%)	1	0	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,304	1,278	0	1,291
A lot (%)	22	20	NaN	23
Some (%)	32	30	NaN	31
A little (%)	32	34	NaN	31
Not at all (%)	14	16	NaN	15
Refused (%)	0	0	NaN	0

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	76	77	78	76	NaN	78	74
No (%)	11	11	10	11	NaN	11	11
Not sure (%)	12	11	12	11	NaN	10	14
Refused (%)	1	1	1	1	NaN	2	2

In your opinion, do you think global warming is a(n)... Environmental Issue

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	75
No (%)	NaN	13
Not sure (%)	NaN	11
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Scientific Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	71	73	71	70	NaN	71	68
No (%)	13	13	14	15	NaN	15	14
Not sure (%)	15	14	14	14	NaN	13	16
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	69
No (%)	NaN	17
Not sure (%)	NaN	13
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Severe Weather Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	0	0	1,204	1,226	0	1,304	1,278
Yes (%)	NaN	NaN	63	61	NaN	65	61
No (%)	NaN	NaN	19	23	NaN	19	19
Not sure (%)	NaN	NaN	17	15	NaN	15	17
Refused (%)	NaN	NaN	1	1	NaN	1	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	64
No (%)	NaN	21
Not sure (%)	NaN	13
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Agricultural (Farming, Food) Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	64	65	62	65	NaN	66	62
No (%)	19	17	22	20	NaN	19	19
Not sure (%)	16	16	15	15	NaN	14	16
Refused (%)	2	1	1	1	NaN	1	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	63
No (%)	NaN	22
Not sure (%)	NaN	14
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Health Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	58	62	61	62	NaN	62	60
No (%)	23	21	22	22	NaN	23	21
Not sure (%)	17	16	16	15	NaN	13	17
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	58
No (%)	NaN	27
Not sure (%)	NaN	14
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Political Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	54	56	56	56	NaN	60	58
No (%)	27	26	27	28	NaN	24	23
Not sure (%)	17	17	16	15	NaN	14	17
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	57
No (%)	NaN	28
Not sure (%)	NaN	14
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Economic Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	60	63	61	60	NaN	60	57
No (%)	22	19	23	23	NaN	23	22
Not sure (%)	16	17	15	16	NaN	15	19
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	54
No (%)	NaN	29
Not sure (%)	NaN	15
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Humanitarian Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	0	0	0	0	0	0	0
Yes (%)	NaN						
No (%)	NaN						
Not sure (%)	NaN						
Refused (%)	NaN						

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	51
No (%)	NaN	33
Not sure (%)	NaN	15
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Moral Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	35	41	39	37	NaN	41	41
No (%)	44	39	41	45	NaN	42	36
Not sure (%)	19	19	19	17	NaN	15	20
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	38
No (%)	NaN	44
Not sure (%)	NaN	17
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Poverty Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	24	25	27	25	NaN	28	28
No (%)	53	50	51	54	NaN	52	47
Not sure (%)	21	24	22	20	NaN	18	23
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	29
No (%)	NaN	54
Not sure (%)	NaN	16
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) National Security Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	26	23	26	27	NaN	29	25
No (%)	53	50	51	53	NaN	50	49
Not sure (%)	20	26	21	19	NaN	19	24
Refused (%)	1	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	27
No (%)	NaN	55
Not sure (%)	NaN	17
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Social Justice (Fairness) Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	23	27	23	24	NaN	26	29
No (%)	53	46	51	52	NaN	51	46
Not sure (%)	22	25	25	22	NaN	20	24
Refused (%)	2	1	1	1	NaN	2	2

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	24
No (%)	NaN	56
Not sure (%)	NaN	19
Refused (%)	NaN	1

In your opinion, do you think global warming is a(n)...(cont'd) Religious Issue

	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017	Oct 2017	Mar 2018
(Unweighted Base)	1,263	1,330	1,204	1,226	0	1,304	1,278
Yes (%)	10	12	10	8	NaN	9	13
No (%)	71	67	71	73	NaN	77	64
Not sure (%)	18	20	17	17	NaN	12	20
Refused (%)	2	1	1	1	NaN	2	3

	Dec 2018	Apr 2019
(Unweighted Base)	0	1,291
Yes (%)	NaN	9
No (%)	NaN	75
Not sure (%)	NaN	15
Refused (%)	NaN	1

Which statement best reflects your view?

[For those who respond "global warming is affecting weather in the United States"]

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

	Apr 2013	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016
(Unweighted Base)	510	406	1,013	0	0	0	1,204	1,226
Global warming is	58	56	57	NaN	NaN	NaN	60	59
affecting weather in the								
United States (%)								
Affecting weather a lot (%)	23	22	22	NaN	NaN	NaN	24	24
Affecting weather some (%)	27	26	25	NaN	NaN	NaN	28	26
Affecting weather a little (%)	6	6	8	NaN	NaN	NaN	7	8
Don't know/refused (%)	2	2	2	NaN	NaN	NaN	1	2
Prefer not to answer (%)	0	0	0	NaN	NaN	NaN	0	0
Global warming is not	7	7	8	NaN	NaN	NaN	5	7
affecting weather in the								
United States (%)								
Global warming isn't	10	13	10	NaN	NaN	NaN	9	9
happening (%)								
Don't know (%)	19	17	19	NaN	NaN	NaN	20	21
Prefer not to	6	7	6	NaN	NaN	NaN	6	4
answer/refused (%)								

	May 2017	Oct 2017	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,266	1,304	1,278	1,114	1,291
Global warming is	59	64	61	65	60
affecting weather in the					
United States (%)					
Affecting weather a lot (%)	25	33	29	32	28
Affecting weather some (%)	27	23	25	26	22
Affecting weather a little (%)	5	6	6	5	7
Don't know/refused (%)	2	2	1	2	2
Prefer not to answer (%)	0	0	0	0	0
Global warming is not	5	6	5	6	7
affecting weather in the					
United States (%)					
Global warming isn't	10	8	9	8	11
happening (%)					
Don't know (%)	21	18	18	15	18
Prefer not to	5	5	7	5	5
answer/refused (%)					

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

Extreme heat

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	13	11	13
Moderately worried (%)	21	21	23
A little worried (%)	29	29	34
Not at all worried (%)	36	39	30
Refused (%)	1	0	0

Flooding

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	7	6	9
Moderately worried (%)	22	17	19
A little worried (%)	31	38	32
Not at all worried (%)	39	39	40
Refused (%)	1	0	0

Wildfires

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	9	9	9
Moderately worried (%)	12	13	14
A little worried (%)	21	20	25
Not at all worried (%)	57	59	51
Refused (%)	1	0	0

How worried are you that the following might harm your local area? (Cont'd)

Hurricanes

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	9	8	9
Moderately worried (%)	12	12	14
A little worried (%)	17	20	16
Not at all worried (%)	62	59	60
Refused (%)	1	0	0

Drought

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	11	10	10
Moderately worried (%)	19	17	21
A little worried (%)	31	31	34
Not at all worried (%)	39	42	35
Refused (%)	1	0	0

Water shortages

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	9	8	10
Moderately worried (%)	17	14	17
A little worried (%)	25	29	31
Not at all worried (%)	48	49	41
Refused (%)	1	0	0

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

Reduced snowpack

	Mar 2018	Dec 2018	Apr 2019
(Unweighted Base)	1,278	1,114	1,291
Very worried (%)	5	5	4
Moderately worried (%)	10	11	10
A little worried (%)	16	21	19
Not at all worried (%)	68	63	66
Refused (%)	1	0	0

10 Appendix II: Survey Method

The data in this report are based on a nationally representative survey of 1,291 American adults, aged 18 and older. The survey was conducted March 29 – April 8, 2019. All questionnaires were self-administered by respondents in a web-based environment. The survey took, on average, 23 minutes to complete. The sample was drawn from the Ipsos (formerly GfK) 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 given 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 U.S. 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 current survey (April, 2019), panel members who have participated in one or more of these surveys in the past, excluding the most recent two surveys (i.e., March and December 2018), may be randomly selected for participation. In the current survey, 464 respondents participated in a previous CCAM survey prior to 2018.

The survey instrument was designed by Anthony Leiserowitz, Seth Rosenthal, Matthew Ballew, Matthew Goldberg, Abel Gustafson, and Parrish Bergquist of Yale University, and Edward Maibach and John Kotcher of George Mason 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, at the 95% confidence level, are plus or minus 3 percentage points except where noted.

- April 2019: March 29 April 8 (N = 1,291)
- December 2018: Fielded November 28 December 11 (N = 1,114)
- March 2018: Fielded March 7 March 24 (N = 1,278)
- October 2017: Fielded October 20 November 1 (N = 1,304)
- May 2017: Fielded May 18 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 March 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 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

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

11 Appendix III: Sample Demographics

Variable	N (unweighted)	% (weighted)
Total	1,291	100
Male	685	48
Female	606	52
iGen (1997 -)	42	6
Millennials (1981 - 1996)	290	30
Generation X (1965 - 1980)	325	25
Baby Boomers (1946 - 1964)	516	32
Silent (1928 - 1945)	116	7
Greatest (Before 1928)	2	0
Less than high school diploma	83	11
High school graduate, GED, or alternative	339	29
Some college or associates degree	392	28
Bachelors degree or higher	477	32
<\$25K	173	14
\$25K-<\$50K	222	19
\$50K-<\$75K	225	17
\$75K-<\$100K	172	14
\$100K-<\$125K	158	11
\$125K+	341	24
White, Non-Hispanic	916	64
Black, Non-Hispanic	125	12
Other, Non-Hispanic	111	8
Hispanic	139	16
Northeast	234	18
Midwest	305	21
South	441	38
West	311	24

