

AMERICANS' ACTIONS TO LIMIT AND PREPARE FOR GLOBAL WARMING

March 2021



YALE 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](https://climatecommunication.yale.edu) (climatecommunication.yale.edu) and the [George Mason University Center for Climate Change Communication](https://climatechangecommunication.org) (climatechangecommunication.org). Interview dates: March 18 – 29, 2021. Interviews: 1,037 adults (18+). Average margin of error for registered voters: +/- 3 percentage points at the 95% confidence level. The research was funded by the 11th Hour Project, the Energy Foundation, the MacArthur Foundation, and the Grantham Foundation.

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Executive Summary

Drawing on a nationally representative survey ($n = 1,037$), this report describes Americans' actions to limit and prepare for global warming. The survey was fielded from March 18 – 29, 2021. This report builds on three previous reports based on data from this same survey that focused on [public support for U.S. domestic climate policy](#), [public support for international climate action](#), and [Americans' beliefs and attitudes about global warming](#). Among the key findings of this report:

Actions to Limit Global Warming

- About half of Americans (52%) say they have deliberately purchased an energy-efficient kitchen appliance. Additionally, three in ten or more say they have deliberately bought an energy-efficient water heater (39%), an energy-efficient home air conditioner (38%) or a car that averages 30 miles per gallon or more (37%). Fewer say they have deliberately bought services from businesses that are explicitly eco-friendly (18%) or electricity generated from renewable energy sources (12%).
- A majority of Americans (62%) say they set their thermostats to 68 degrees or cooler in the winter at least some of the time. Additionally, most (54%) say they set their thermostats to 76 degrees or warmer in the summer or use less air conditioning at least some of the time.
- The vast majority of Americans (89%) say they use energy-efficient lightbulbs (CFLs or LEDs) in their homes, including about seven in ten (71%) who say “all” or “most” of their lightbulbs are energy efficient.
- About six in ten Americans (63%) say they make efforts to eat less red meat (beef, lamb, pork). One in three (33%) say they avoid creating food waste, and about one in four (26%) say they compost food waste.
- About three in ten Americans (31%) say they have rewarded companies that are taking steps to reduce global warming by buying their products in the past 12 months, and about two in ten (22%) say they have punished companies that are opposing steps to reduce global warming by *not* buying their products.
- About half of Americans (52%) say they would sign a petition about global warming. About three in ten or more say they would donate money (33%) or volunteer time (31%) to an organization working on global warming. However, in the past year only 15 percent of Americans say they actually have signed a petition about global warming at least once, 13% have donated money to an organization working on global warming at least once, and 6% have volunteered their time to an organization working on global warming at least once.
- More than one in four Americans (28%) say they would write or phone government officials about global warming; fewer (8%), however, say they have done so at least once in the past 12 months.
- About three in ten Americans (29%) say they are “definitely” or “probably” willing to join a campaign to convince elected officials to take action to reduce global warming, and more than three in ten Americans (34%) say they “definitely” or “probably” would participate in such a campaign specifically to convince *local* elected officials. However, only one percent of Americans say they are currently participating in either type of campaign.

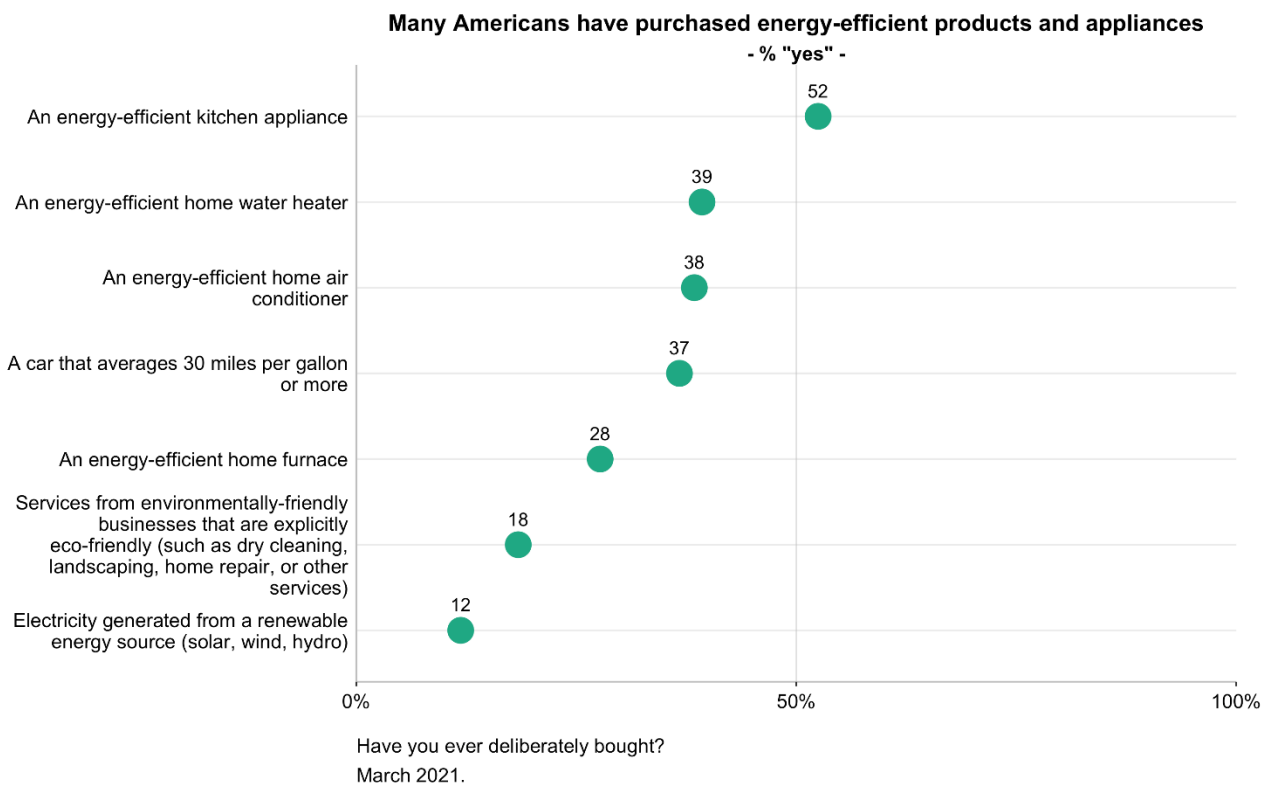
Actions to Prepare for Global Warming

- More than half (55%) of Americans say that they have thought “a great deal” or “some” about preparing for a natural disaster.
- Four in ten Americans (40%) say they have an emergency supply kit in their home, and about one in four (28%) say they have a disaster emergency plan that all members of their family know about.
- More than four in ten Americans (44%) say they “definitely” or “probably” would join a group to help their local community prepare for and respond to natural disasters, such as a community emergency response team or the Red Cross. Few Americans (2%), however, are currently participating in such a group.
- In contrast, only about three in ten Americans (29%) say they “definitely” or “probably” would join a local campaign to convince state and local government officials to take action to prepare their community for the impacts of global warming. Only one percent say they are currently participating in such a campaign.

1. Household Actions to Limit Global Warming

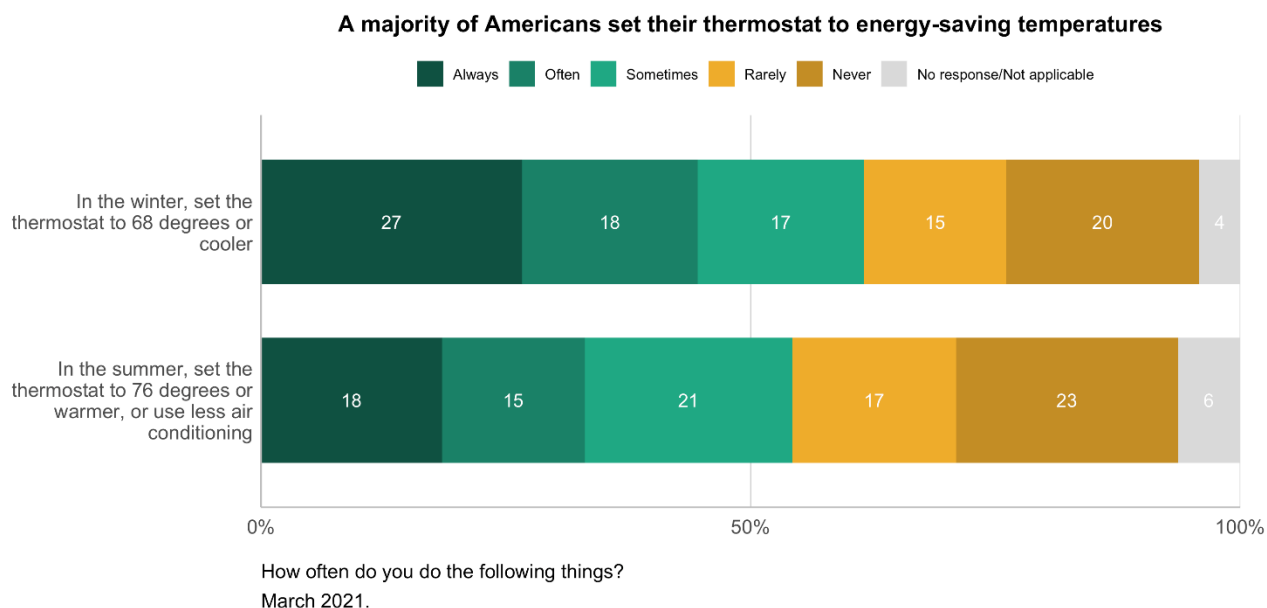
1.1 Many Americans have purchased energy-efficient products and appliances.

Many Americans have deliberately purchased energy-efficient products and appliances. Specifically, about half of Americans (52%) have deliberately bought an energy-efficient kitchen appliance. Additionally, three in ten or more have deliberately bought an energy-efficient water heater (39%), an energy-efficient home air conditioner (38%) or a car that averages 30 miles per gallon or more (37%), and 28% have purchased an energy-efficient home furnace. Fewer have deliberately bought services from businesses that are explicitly eco-friendly (18%) or electricity generated from renewable energy sources (12%).



1.2 A majority of Americans set their thermostat to energy-saving temperatures.

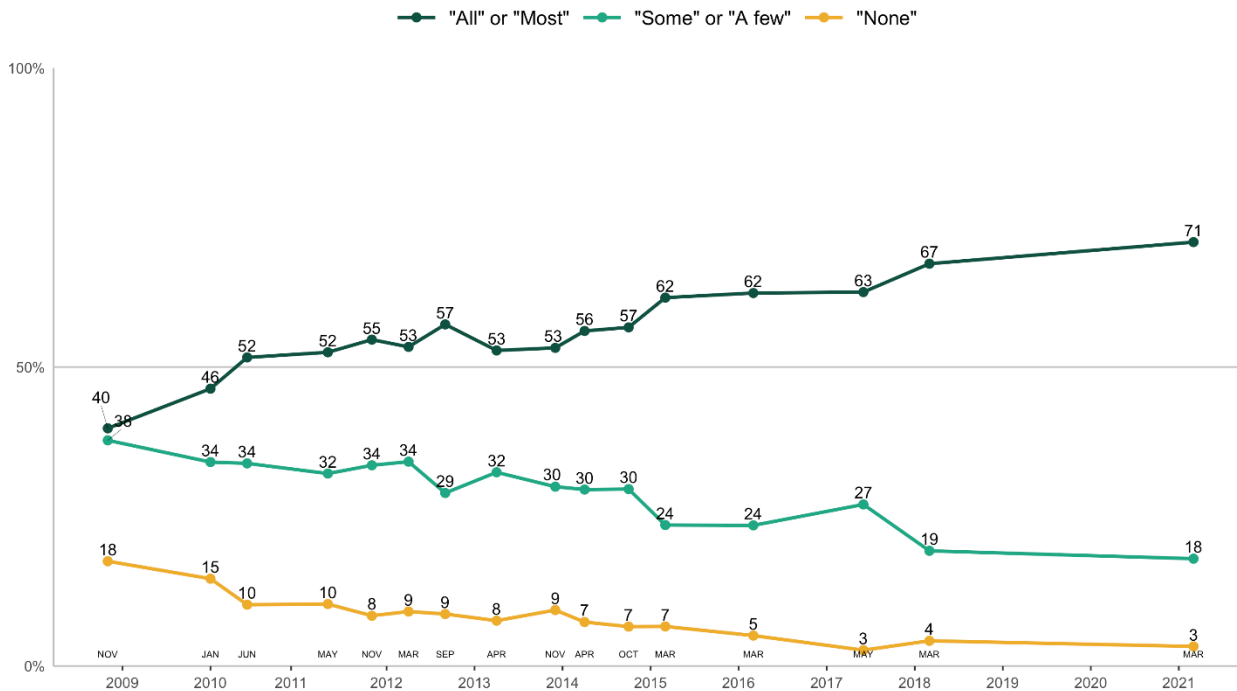
A majority of Americans (62%) set their thermostats to 68 degrees or cooler in the winter at least sometimes, including 27% who say they “always” do this, 18% who say they “often” do this, and 17% who say they “sometimes” do. Similarly, a majority (54%) set their thermostats to 76 degrees or warmer in the summer or use less air conditioning at least sometimes, including 18% who say they “always” do this, 15% who say they “often” do this, and 21% who say they “sometimes” do this.



1.3 Most Americans use energy-efficient lightbulbs in their homes.

The vast majority of Americans (89%) use energy-efficient lightbulbs (CFLs or LEDs)¹ in their homes, including about seven in ten (71%) who say “all” or “most” of their lightbulbs are energy efficient. The proportion who say “all” or “most” of their lighting is energy efficient is 31 percentage points higher than when we first asked this question in November 2008.

Most Americans use energy-efficient lightbulbs in their homes



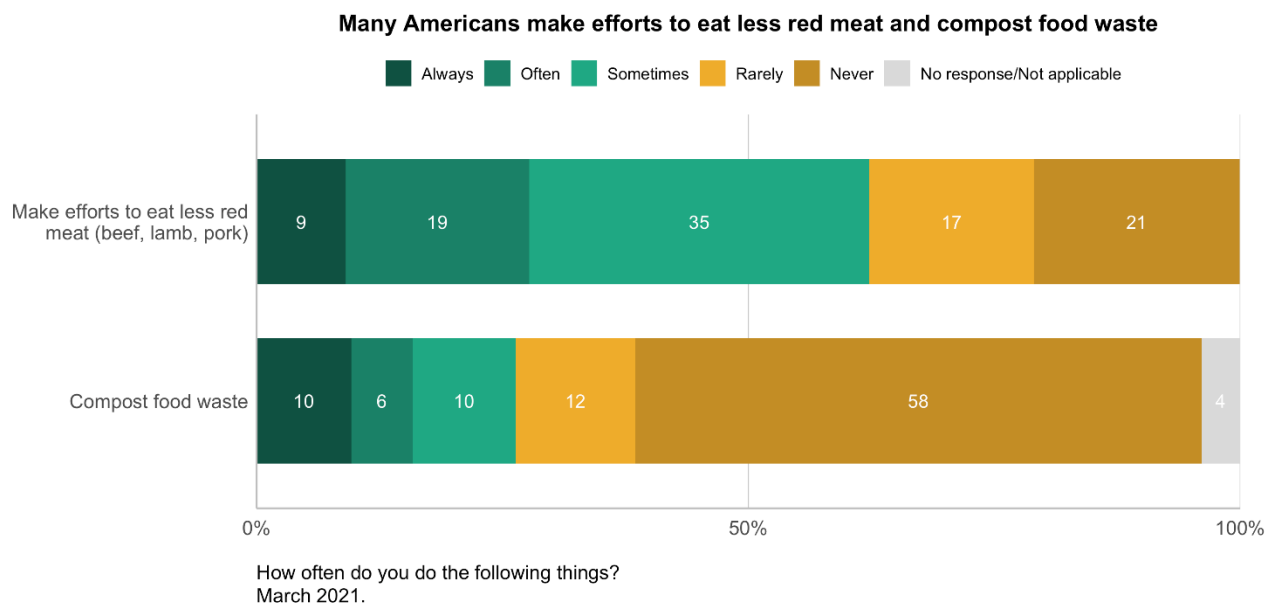
How many light bulbs in your home are energy-efficient compact fluorescent lights (CFLs) or LEDs?
March 2021.



¹ Until April 2014, the question asked in the survey was worded: “How many of the light bulbs in your home are high energy-efficiency compact fluorescents (CFLs)?” The current wording, with the addition of LEDs, was used from October 2014 onward.

1.4 Many Americans make efforts to eat less red meat and compost food waste.

About six in ten Americans (63%) make efforts to eat less red meat (beef, lamb, pork), including 9% who say they “always” make such efforts, 19% who say they “often” do so, and 35% who say they “sometimes” do so. About one in four Americans (26%) say they compost food waste, including 10% who “always” compost food waste, 6% who “often” compost, and 10% who “sometimes” compost.



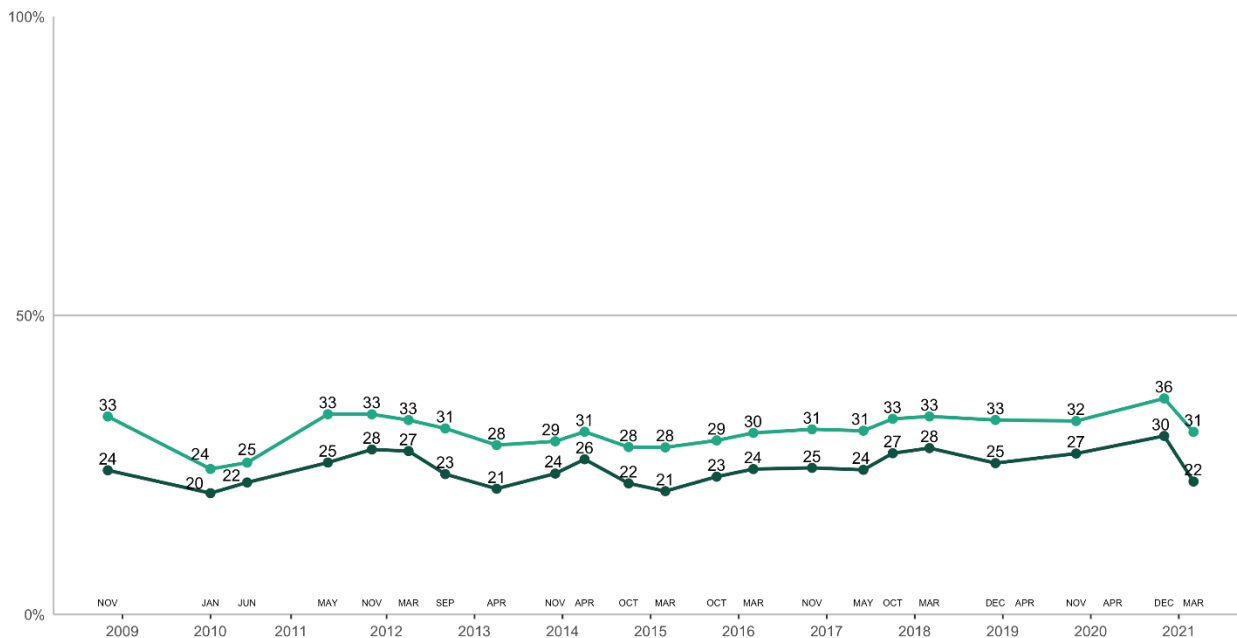
1.5 About three in ten Americans have engaged in consumer activism on global warming.

About three in ten Americans (31%) have rewarded companies that are taking steps to reduce global warming by buying their products in the past 12 months, and about two in ten (22%) have punished companies that are opposing steps to reduce global warming by *not* buying their products. The proportion of Americans who say they have rewarded companies that are taking steps to reduce global warming or punished companies that are opposing steps to reduce global warming have waxed and waned slightly over time, and are currently at levels similar to when we first asked these questions in November 2008.

About three in ten Americans have engaged in consumer activism on global warming

- % one or more times -

- Rewarded companies that are taking steps to reduce global warming by buying their products
- Punished companies that are opposing steps to reduce global warming by NOT buying their products



Over the past 12 months, how many times have you done the following?
March 2021.

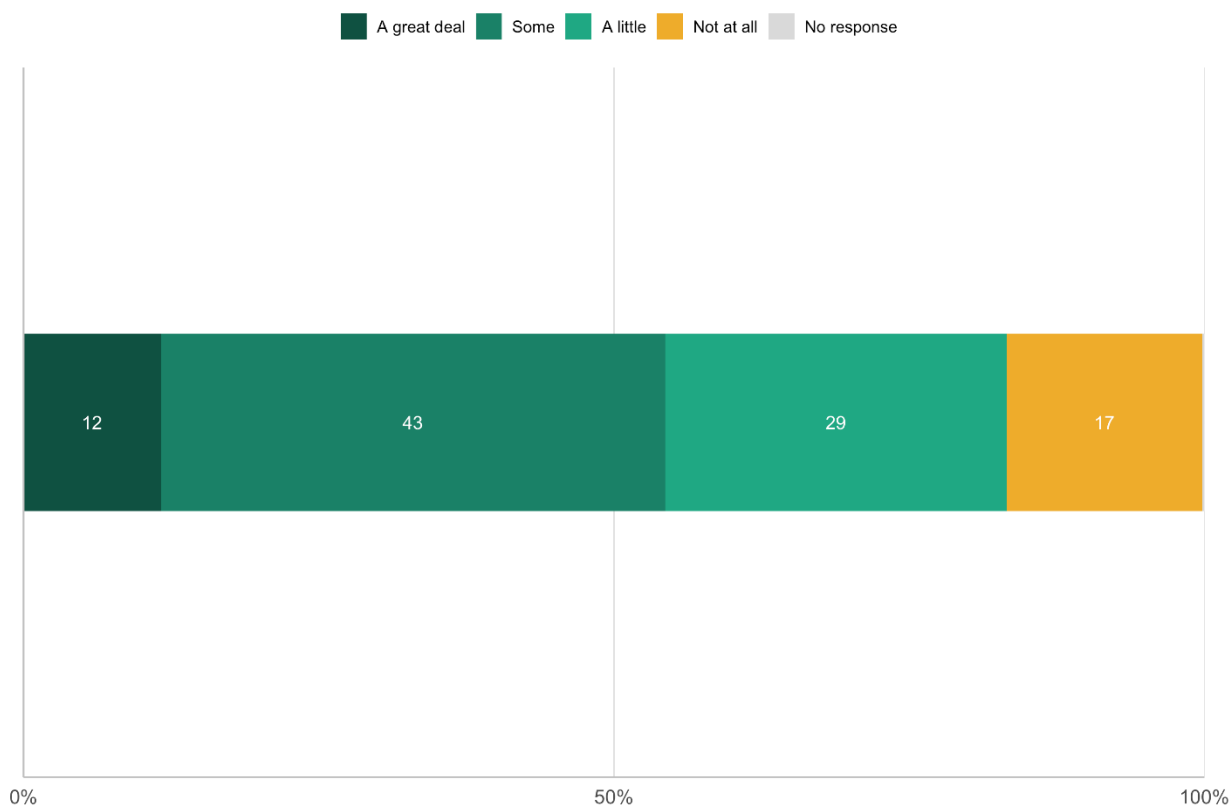


2. Household Actions to Prepare for Global Warming

2.1 Most Americans have thought about preparing for a natural disaster.

Global warming is linked to increased likelihood and severity of many natural disasters including flooding, fires, hurricanes, and extreme weather.² More than half (55%) of Americans say that they have thought “a great deal” or “some” about preparing for a natural disaster.

Most Americans have thought about preparing for a natural disaster



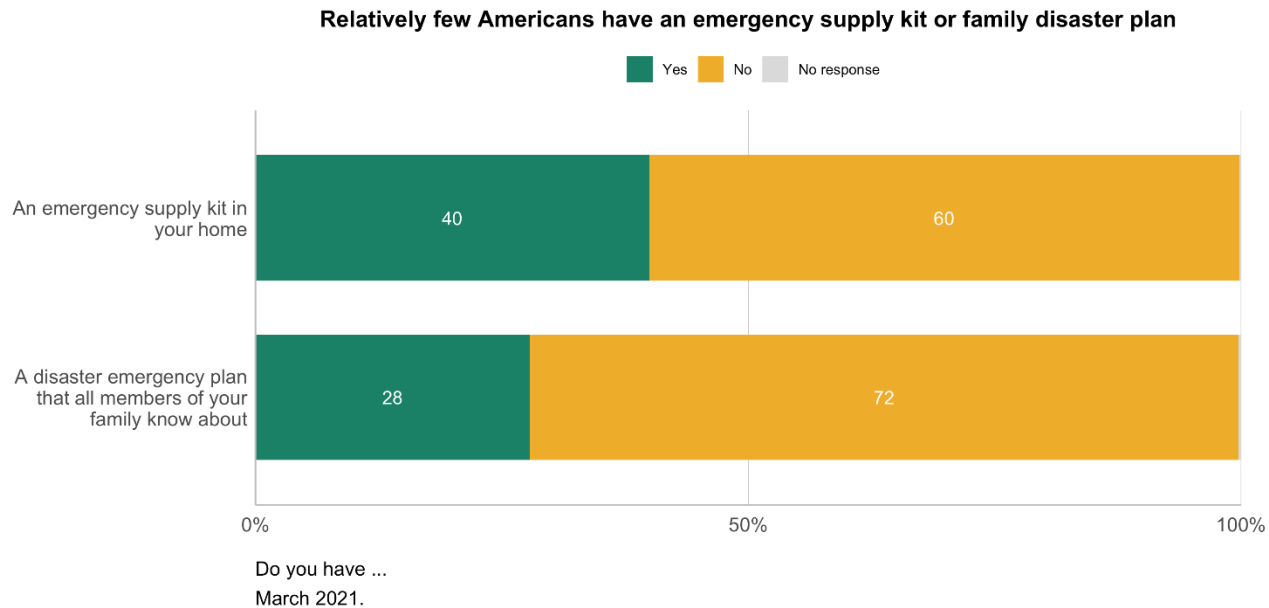
How much have you thought about preparing for a natural disaster?
March 2021.



² National Academies of Sciences, Engineering, and Medicine. 2016. *Attribution of Extreme Weather Events in the Context of Climate Change*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/21852>.

2.2 Relatively few Americans have an emergency supply kit or family disaster plan.

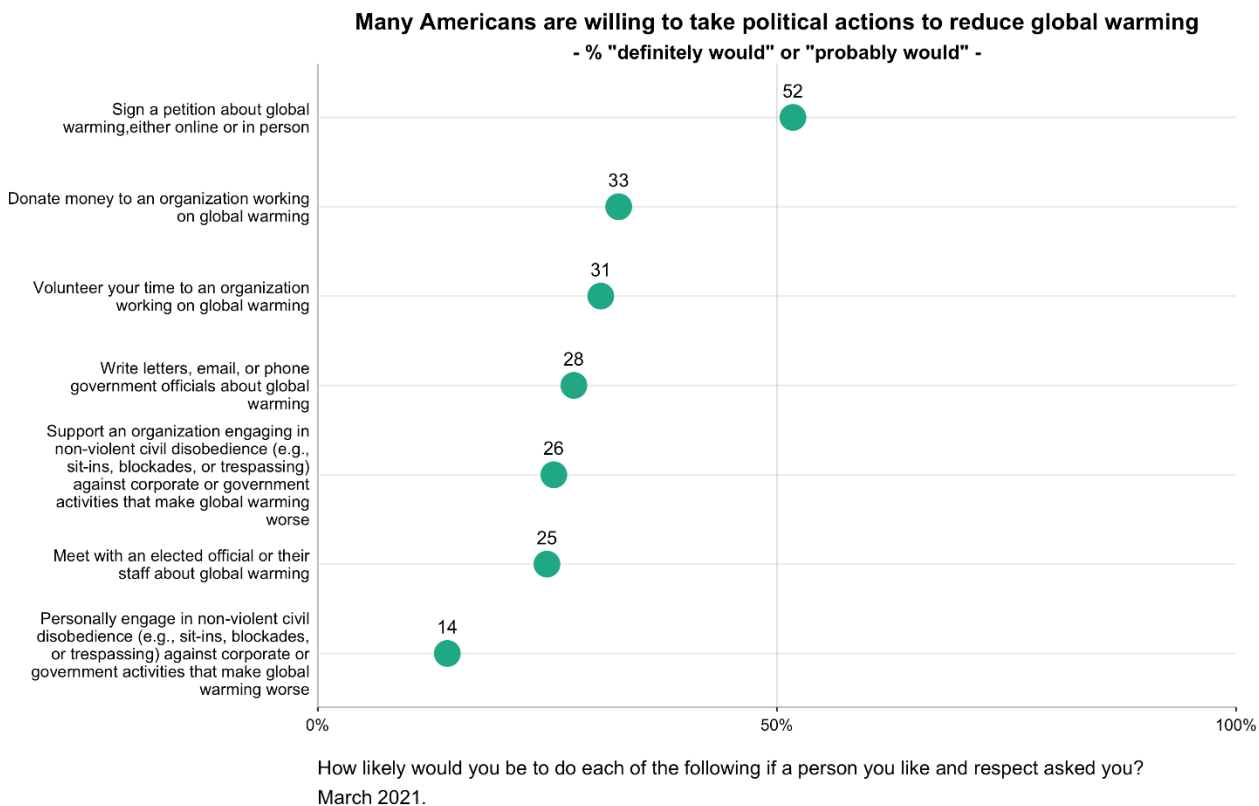
Four in ten Americans (40%) say they have an emergency supply kit in their home. About one in four (28%) say they have a disaster emergency plan that all members of their family know about.



3. Collective and Political Actions to Limit Global Warming

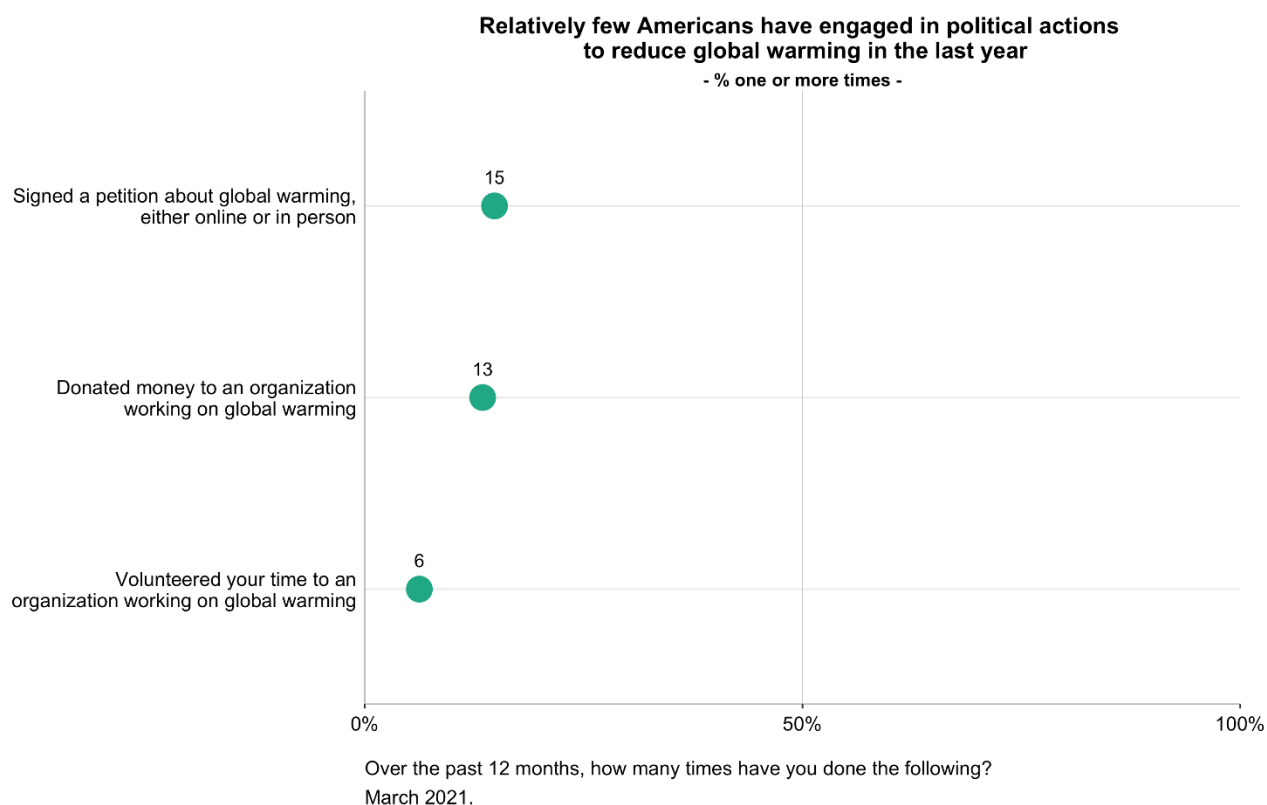
3.1 Many Americans are willing to take political actions to reduce global warming.

About half of Americans (52%) say they would sign a petition about global warming. Three in ten or more say they would donate money (33%) or volunteer time (31%) to an organization working on global warming. One in four or more say they would write or phone government officials (28%), or meet with an elected official or their staff (25%), about global warming. Finally, about one in four (26%) would support an organization engaging in non-violent civil disobedience against corporate or government activities that make global warming worse, and 14% would personally engage in such non-violent civil disobedience.



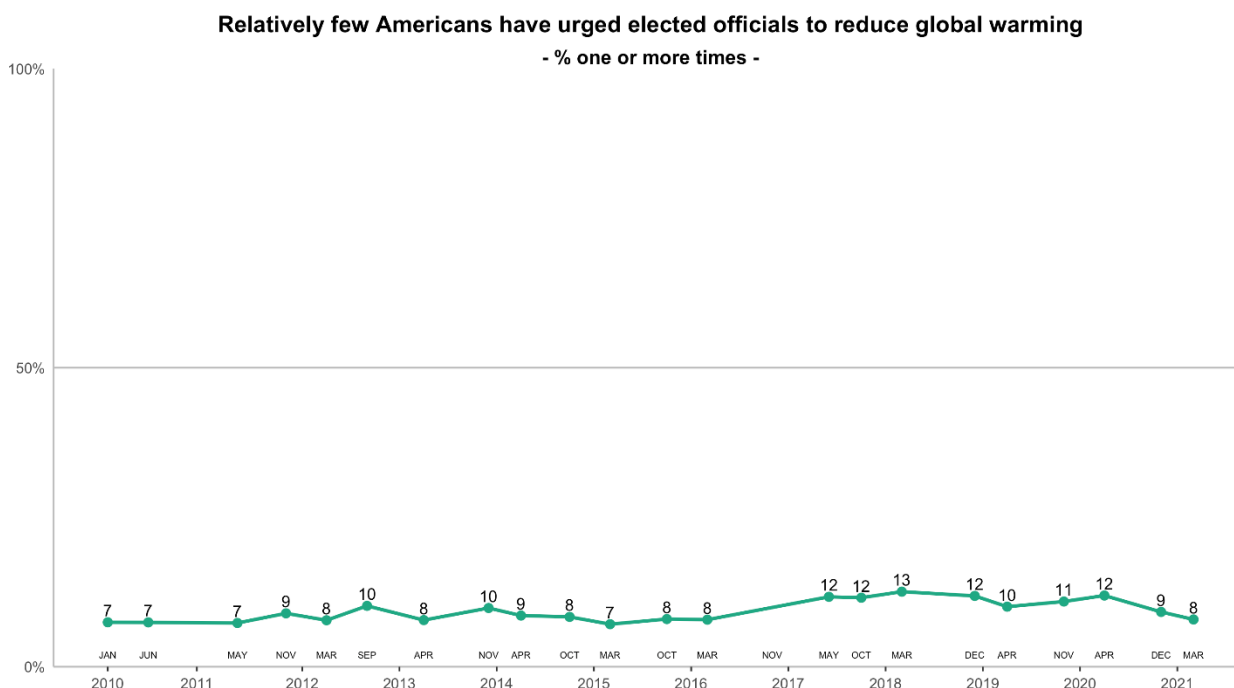
3.2 Relatively few Americans have engaged in political actions to reduce global warming in the last year.

Relatively few Americans have actually engaged in political actions to reduce global warming over the past 12 months, including 15% who say they have signed a petition about global warming at least “once,” and 13% who say they have donated money to an organization working on global warming at least “once.” Fewer (6%) have volunteered their time to an organization working on global warming at least “once” in the past year.



3.3 Relatively few Americans have urged elected officials to reduce global warming.

Relatively few Americans (8%) have contacted government officials to urge them to take action to reduce global warming at least “once” over the past 12 months. The proportion who say they have contacted a government official to urge them to take action to reduce global warming declined four percentage points over the past year, falling back to the level when we first asked this question in January 2010.



(a) Over the past 12 months, how many times have you written letters, emailed, or phoned government officials about global warming?

(b) When you contacted a government official did you [urge them to take action to reduce global warming]?

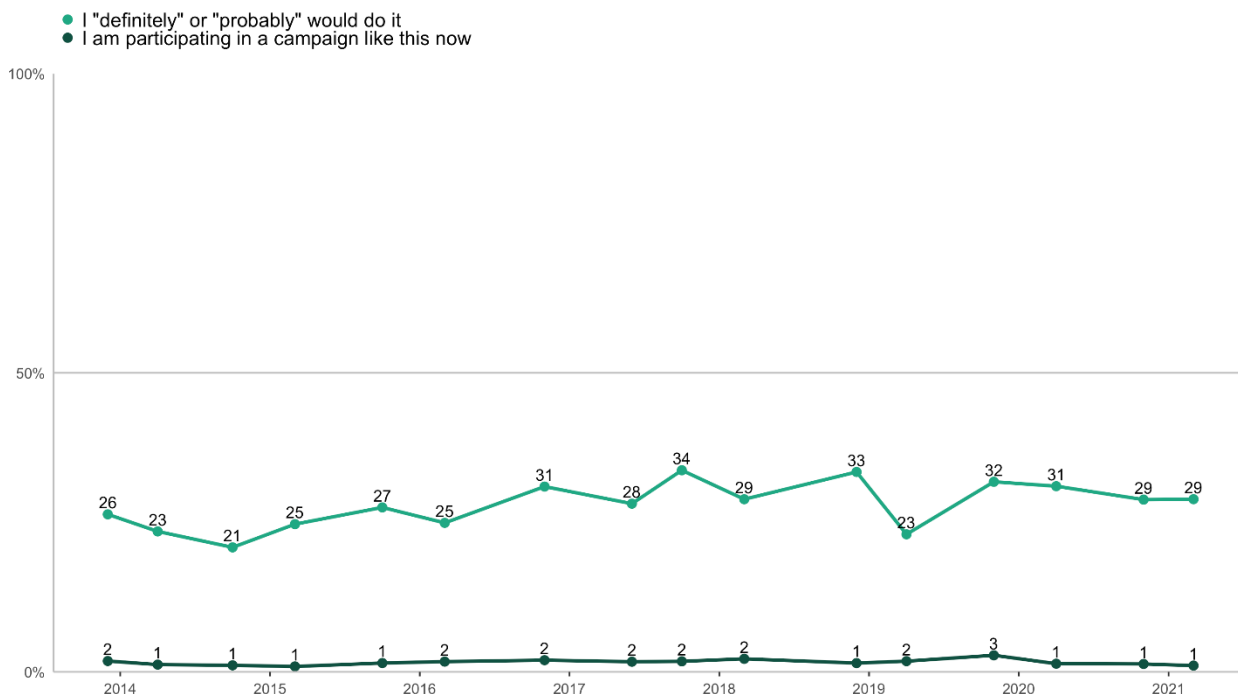
March 2021.

3.4 Three in ten Americans are willing to participate in a campaign to convince elected officials to take action to reduce global warming. However, actual participation in a campaign remains low.

About three in ten Americans (29%) say they are “probably” or “definitely” willing to join a campaign to convince elected officials to take action to reduce global warming. However, only one percent say they are *currently* participating in a campaign to convince elected officials to take action to reduce global warming.

The percentage of Americans who say they are willing to join a campaign or are currently participating in one has remained fairly consistent since we first asked this question in November 2013.

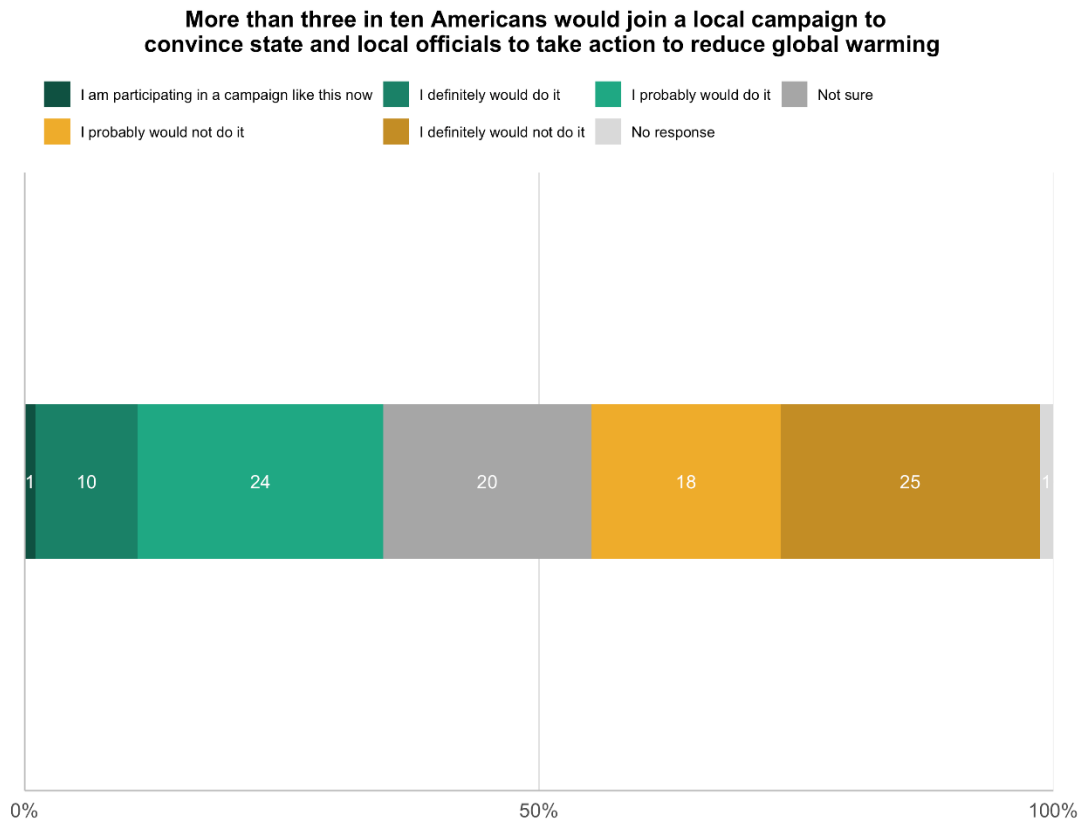
Three in ten Americans are willing to participate in a campaign to convince elected officials to take action to reduce global warming



How willing or unwilling would you be to join a campaign to convince elected officials to take action to reduce global warming?
March 2021.

3.5 More than three in ten Americans would join a local campaign to convince state and local officials to take action to reduce global warming.

More than three in ten Americans (34%) say they “definitely would” (10%) or “probably would” (24%) participate in a campaign to convince *local* government officials to take action to reduce global warming.



How willing or unwilling would you be to join a local campaign to convince your state and local government officials to take action to reduce the causes of global warming?
March 2021.



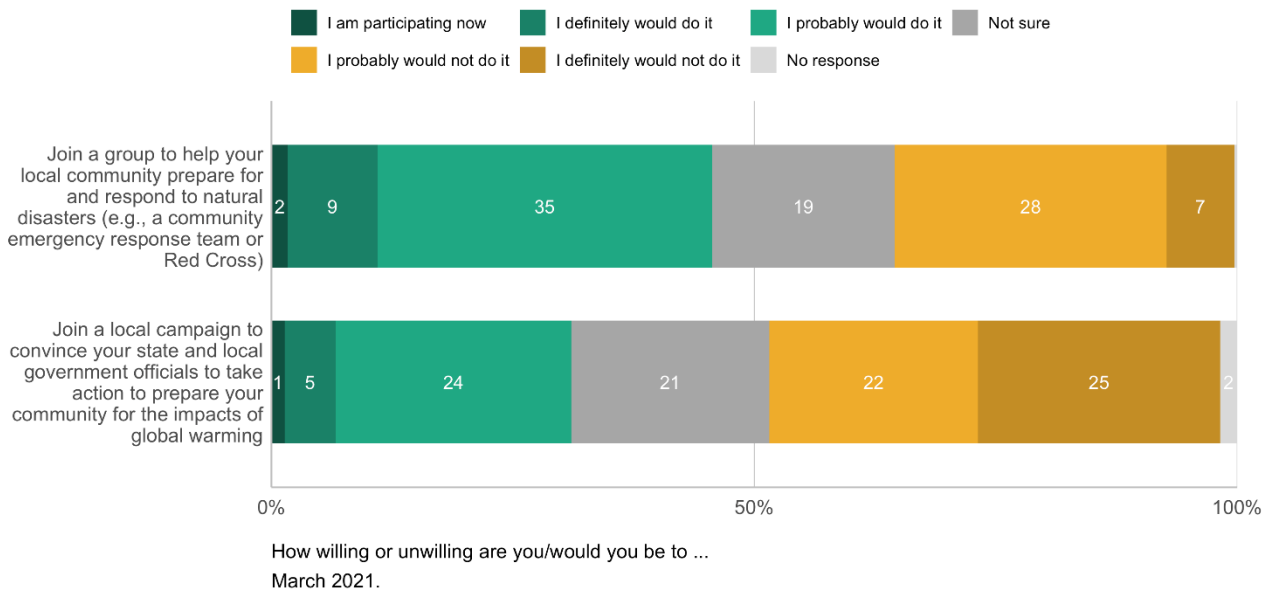
4. Collective and Political Actions to Prepare for Global Warming

4.1 More Americans would join a community preparedness group than an advocacy campaign.

More than four in ten Americans (44%) say they “definitely would” or “probably would” join a group, such as a community emergency response team or the Red Cross, to help their local community prepare for and respond to natural disasters. Few Americans (2%), however, are currently participating in such a group.

In contrast, only about three in ten Americans (29%) say they “definitely would” or “probably would” join a local campaign to convince state and local government officials to take action to prepare their community for the impacts of global warming. Only one percent say they are currently participating in such a campaign.

More Americans would join a community preparedness group than an advocacy campaign



Appendix I: Data Tables

Note: Percentages reported are weighted to match U.S. Census parameters. NaN = “No available number” (i.e., the question was not asked in that survey wave).

(Base: Americans 18+)

Have you ever deliberately bought?

An energy-efficient kitchen appliance

Note: This question was first asked in March 2021.

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	52
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	7
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Have you ever deliberately bought?****An energy-efficient home water heater***Note: This question was first asked in March 2021.*

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	39
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	33
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	15
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Have you ever deliberately bought?****An energy-efficient home air conditioner***Note: This question was first asked in March 2021.*

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	38
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	34
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	15
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1

(Base: Americans 18+)**Have you ever deliberately bought?****A car that averages 30 miles per gallon or more***Note: This question was first asked in March 2021.*

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	37
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	46
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	11
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	6
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Have you ever deliberately bought?****An energy-efficient home furnace***Note: This question was first asked in March 2021.*

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	40
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	19
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Have you ever deliberately bought?****Services from environmentally-friendly businesses that are explicitly eco-friendly (such as dry cleaning, landscaping, home repair, or other services)***Note: This question was first asked in March 2021.*

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	18
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	48
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	19
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	14
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Have you ever deliberately bought?****Electricity generated from a renewable energy source (solar, wind, hydro)***Note: This question was first asked in March 2021.*

	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
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	68
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	8
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**How often do you do the following things?****In the winter, set the thermostat to 68 degrees or cooler**

	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
Always (%)	38	32	34	26	22	23	32	31
Often (%)	24	19	21	19	25	20	21	19
Sometimes (%)	16	19	16	18	19	16	16	19
Rarely (%)	8	10	10	11	12	15	12	12
Never (%)	5	11	10	15	12	18	12	13
Refused (%)	0	2	1	1	2	1	0	1
Not Applicable (%)	9	7	7	10	7	7	8	5

	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
Always (%)	23	36	24	30	NaN	30	NaN	27
Often (%)	22	18	22	18	NaN	20	NaN	20
Sometimes (%)	19	16	21	18	NaN	19	NaN	17
Rarely (%)	13	10	13	13	NaN	13	NaN	13
Never (%)	15	13	16	13	NaN	12	NaN	17
Refused (%)	1	1	0	0	NaN	0	NaN	0
Not Applicable (%)	6	6	5	8	NaN	7	NaN	7

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	1,278	0	0	0	0	0	1,037
Always (%)	NaN	32	NaN	NaN	NaN	NaN	NaN	27
Often (%)	NaN	19	NaN	NaN	NaN	NaN	NaN	18
Sometimes (%)	NaN	19	NaN	NaN	NaN	NaN	NaN	17
Rarely (%)	NaN	9	NaN	NaN	NaN	NaN	NaN	15
Never (%)	NaN	14	NaN	NaN	NaN	NaN	NaN	20
Refused (%)	NaN	0	NaN	NaN	NaN	NaN	NaN	0
Not Applicable (%)	NaN	7	NaN	NaN	NaN	NaN	NaN	4

(Base: Americans 18+)**How often do you do the following things?****In the summer, set the thermostat to 76 degrees or warmer, or use less air conditioning**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	2,164	1,001	1,024	0	0	0	0	0
Always (%)	34	30	29	NaN	NaN	NaN	NaN	NaN
Often (%)	22	21	23	NaN	NaN	NaN	NaN	NaN
Sometimes (%)	13	19	18	NaN	NaN	NaN	NaN	NaN
Rarely (%)	7	9	10	NaN	NaN	NaN	NaN	NaN
Never (%)	7	8	9	NaN	NaN	NaN	NaN	NaN
Refused (%)	1	2	1	NaN	NaN	NaN	NaN	NaN
Not Applicable (%)	16	11	11	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	1,266
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	19
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	15
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	16
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0
Not Applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	9

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	18
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	15
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	17
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0
Not Applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	6

(Base: Americans 18+)**How many light bulbs in your home are energy-efficient compact fluorescent lights (CFLs)?**

	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	991	1,008	1,061	1,045
All (%)	12	13	13	19	19	19	23	20
Most (%)	28	33	38	34	36	34	34	33
Some (%)	22	18	19	18	20	21	18	19
A Few (%)	16	16	15	14	13	14	10	13
None (%)	18	15	10	10	8	9	9	8
I don't know (%)	5	4	4	4	3	3	5	7
Refused (%)	0	1	1	1	0	1	0	0

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	0	0
All (%)	23	21	NaN	NaN	NaN	NaN	NaN	NaN
Most (%)	30	35	NaN	NaN	NaN	NaN	NaN	NaN
Some (%)	18	18	NaN	NaN	NaN	NaN	NaN	NaN
A Few (%)	12	11	NaN	NaN	NaN	NaN	NaN	NaN
None (%)	9	7	NaN	NaN	NaN	NaN	NaN	NaN
I don't know (%)	6	7	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	1	0	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	0
All (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Most (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Some (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A Few (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
None (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

(Base: Americans 18+)**How many light bulbs in your home are energy-efficient compact fluorescent lights (CFLs) or LEDs?**

	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
All (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Most (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Some (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A Few (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
None (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	1,275	1,263	0	1,204	0	1,266
All (%)	NaN	NaN	21	23	NaN	25	NaN	26
Most (%)	NaN	NaN	36	39	NaN	38	NaN	36
Some (%)	NaN	NaN	19	14	NaN	16	NaN	20
A Few (%)	NaN	NaN	11	10	NaN	7	NaN	7
None (%)	NaN	NaN	7	7	NaN	5	NaN	3
I don't know (%)	NaN	NaN	7	8	NaN	9	NaN	8
Refused (%)	NaN	NaN	0	0	NaN	0	NaN	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	1,278	0	0	0	0	0	1,037
All (%)	NaN	30	NaN	NaN	NaN	NaN	NaN	36
Most (%)	NaN	37	NaN	NaN	NaN	NaN	NaN	35
Some (%)	NaN	12	NaN	NaN	NaN	NaN	NaN	12
A Few (%)	NaN	7	NaN	NaN	NaN	NaN	NaN	6
None (%)	NaN	4	NaN	NaN	NaN	NaN	NaN	3
I don't know (%)	NaN	9	NaN	NaN	NaN	NaN	NaN	8
Refused (%)	NaN	0	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**How often do you do the following things?****Make efforts to eat less red meat (beef, lamb, pork)***Note: This question was first asked in March 2021.*

	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
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	9
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	19
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	35
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	17
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**How often do you do the following things?****Compost food waste**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	1,001	0	0	0	0	0	0
Always (%)	NaN	10	NaN	NaN	NaN	NaN	NaN	NaN
Often (%)	NaN	6	NaN	NaN	NaN	NaN	NaN	NaN
Sometimes (%)	NaN	11	NaN	NaN	NaN	NaN	NaN	NaN
Rarely (%)	NaN	12	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	53	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	2	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	6	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Always (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	10
Often (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	6
Sometimes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	10
Rarely (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	58
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0
Not applicable (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4

(Base: Americans 18+)**Over the past 12 months, how many times have you done the following?****Rewarded companies that are taking steps to reduce global warming by buying their products**

	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
Many times (6+) (%)	4	3	4	6	7	7	8	6
Several times(4-5) (%)	9	5	6	6	9	8	8	7
A few times(2-3) (%)	17	13	12	17	15	13	12	13
Once (%)	3	4	4	4	3	5	4	3
Never (%)	46	50	51	43	41	48	48	51
Don't Know (%)	19	21	23	21	23	17	21	20
Refused (%)	1	4	1	3	2	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
Many times (6+) (%)	7	7	6	6	6	6	7	6
Several times(4-5) (%)	7	9	7	7	7	9	8	9
A few times(2-3) (%)	13	13	11	12	13	12	12	13
Once (%)	2	2	3	4	3	4	4	2
Never (%)	52	50	51	49	51	48	51	46
Don't Know (%)	18	19	21	23	19	22	18	23
Refused (%)	1	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	0	1,303	0	1,036	1,037
Many times (6+) (%)	7	8	7	NaN	9	NaN	9	5
Several times(4-5) (%)	9	8	7	NaN	8	NaN	10	7
A few times(2-3) (%)	14	15	16	NaN	14	NaN	14	15
Once (%)	2	3	2	NaN	2	NaN	3	3
Never (%)	44	42	45	NaN	44	NaN	48	51
Don't Know (%)	23	24	23	NaN	24	NaN	16	18
Refused (%)	0	0	0	NaN	0	NaN	0	0

(Base: Americans 18+)**Over the past 12 months, how many times have you done the following?****Punished companies that are opposing steps to reduce global warming by NOT buying their products**

	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
Many times (6+) (%)	5	3	7	7	7	8	6	4
Several times(4-5) (%)	6	5	4	4	5	5	4	5
A few times(2-3) (%)	11	9	8	10	11	10	11	10
Once (%)	3	2	3	3	4	4	3	2
Never (%)	53	53	54	51	46	54	56	59
Don't Know (%)	22	22	24	20	25	17	20	18
Refused (%)	1	4	0	3	2	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
Many times (6+) (%)	6	7	6	5	4	4	5	6
Several times(4-5) (%)	5	5	5	5	5	6	6	6
A few times(2-3) (%)	10	10	9	7	11	11	10	10
Once (%)	3	4	2	4	2	3	3	2
Never (%)	58	54	56	56	57	53	57	54
Don't Know (%)	18	19	22	24	20	23	19	22
Refused (%)	1	1	0	0	0	0	0	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	0	1,303	0	1,036	1,037
Many times (6+) (%)	6	6	5	NaN	6	NaN	8	4
Several times(4-5) (%)	5	7	5	NaN	6	NaN	7	5
A few times(2-3) (%)	12	13	13	NaN	11	NaN	13	11
Once (%)	3	2	2	NaN	3	NaN	2	2
Never (%)	51	48	54	NaN	51	NaN	54	59
Don't Know (%)	22	24	21	NaN	22	NaN	16	19
Refused (%)	0	0	0	NaN	0	NaN	0	0

(Base: Americans 18+)**How much have you thought about preparing for a natural disaster?**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	0	0	0	0	1,008	0	1,045
A great deal (%)	NaN	NaN	NaN	NaN	NaN	16	NaN	14
Some (%)	NaN	NaN	NaN	NaN	NaN	37	NaN	37
A little (%)	NaN	NaN	NaN	NaN	NaN	30	NaN	30
None (%)	NaN	NaN	NaN	NaN	NaN	14	NaN	18
Refused (%)	NaN	NaN	NaN	NaN	NaN	2	NaN	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	0	0	0	0	0	0	0
A great deal (%)	15	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Some (%)	38	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A little (%)	30	NaN	NaN	NaN	NaN	NaN	NaN	NaN
None (%)	16	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	1	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
A great deal (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Some (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	43
A little (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	29
None (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	17
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Do you have an emergency supply kit in your home?**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	0	0	0	0	1,008	0	1,045
Yes (%)	NaN	NaN	NaN	NaN	NaN	36	NaN	36
No (%)	NaN	NaN	NaN	NaN	NaN	62	NaN	63
Refused (%)	NaN	NaN	NaN	NaN	NaN	2	NaN	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	0	0	0	0	0	0	0
Yes (%)	40	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	59	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	1	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	40
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	60
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**Do you have a disaster emergency plan that all members of your family know about?**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	0	0	0	0	1,008	0	1,045
Yes (%)	NaN	NaN	NaN	NaN	NaN	35	NaN	31
No (%)	NaN	NaN	NaN	NaN	NaN	63	NaN	67
Refused (%)	NaN	NaN	NaN	NaN	NaN	2	NaN	2

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	0	0	0	0	0	0	0
Yes (%)	37	NaN	NaN	NaN	NaN	NaN	NaN	NaN
No (%)	62	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	2	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Yes (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28
No (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	72
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Sign a petition about global warming, either online or in person**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	13
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	33
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	14
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	11
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	0	1,266
Definitely would (%)	23	15	NaN	NaN	NaN	NaN	NaN	24
Probably would (%)	30	31	NaN	NaN	NaN	NaN	NaN	30
Probably would not (%)	12	17	NaN	NaN	NaN	NaN	NaN	14
Definitely would not (%)	22	22	NaN	NaN	NaN	NaN	NaN	16
Don't know (%)	8	10	NaN	NaN	NaN	NaN	NaN	10
Prefer not to answer (%)	4	4	NaN	NaN	NaN	NaN	NaN	5
Refused (%)	2	3	NaN	NaN	NaN	NaN	NaN	2

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	1,303	0	0	1,037
Definitely would (%)	NaN	NaN	NaN	NaN	32	NaN	NaN	25
Probably would (%)	NaN	NaN	NaN	NaN	23	NaN	NaN	27
Probably would not (%)	NaN	NaN	NaN	NaN	9	NaN	NaN	11
Definitely would not (%)	NaN	NaN	NaN	NaN	21	NaN	NaN	20
Don't know (%)	NaN	NaN	NaN	NaN	11	NaN	NaN	13
Prefer not to answer (%)	NaN	NaN	NaN	NaN	3	NaN	NaN	3
Refused (%)	NaN	NaN	NaN	NaN	0	NaN	NaN	2

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Donate money to an organization working on global warming**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	31
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	11
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	1,226	1,266
Definitely would (%)	7	3	NaN	NaN	NaN	NaN	7	9
Probably would (%)	23	23	NaN	NaN	NaN	NaN	27	25
Probably would not (%)	19	25	NaN	NaN	NaN	NaN	23	20
Definitely would not (%)	33	30	NaN	NaN	NaN	NaN	26	24
Don't know (%)	13	13	NaN	NaN	NaN	NaN	12	14
Prefer not to answer (%)	4	4	NaN	NaN	NaN	NaN	4	6
Refused (%)	2	3	NaN	NaN	NaN	NaN	1	1

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	1,291	1,303	1,029	1,036	1,037
Definitely would (%)	9	8	10	9	12	10	9	10
Probably would (%)	26	26	28	21	23	24	21	23
Probably would not (%)	21	21	21	21	18	19	19	16
Definitely would not (%)	23	20	22	27	27	27	29	27
Don't know (%)	13	16	12	17	14	16	17	18
Prefer not to answer (%)	6	6	7	5	5	4	4	4
Refused (%)	1	2	1	1	1	0	1	2

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Volunteer your time to an organization working on global warming**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	31
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	1,226	1,266
Definitely would (%)	7	5	NaN	NaN	NaN	NaN	6	6
Probably would (%)	26	22	NaN	NaN	NaN	NaN	24	23
Probably would not (%)	20	27	NaN	NaN	NaN	NaN	26	26
Definitely would not (%)	29	26	NaN	NaN	NaN	NaN	26	23
Don't know (%)	12	15	NaN	NaN	NaN	NaN	14	14
Prefer not to answer (%)	4	4	NaN	NaN	NaN	NaN	4	5
Refused (%)	2	3	NaN	NaN	NaN	NaN	1	2

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	1,291	1,303	1,029	1,036	1,037
Definitely would (%)	7	6	10	7	12	7	7	7
Probably would (%)	27	26	25	22	22	25	24	24
Probably would not (%)	25	23	27	22	20	22	22	20
Definitely would not (%)	22	19	19	26	25	25	26	26
Don't know (%)	14	19	12	18	16	17	17	18
Prefer not to answer (%)	5	6	5	4	4	3	3	3
Refused (%)	1	2	1	1	1	0	1	2

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Write letters, email, or phone government officials about global warming**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	23
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	31
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	11
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	0	1,266
Definitely would (%)	8	5	NaN	NaN	NaN	NaN	NaN	9
Probably would (%)	24	23	NaN	NaN	NaN	NaN	NaN	20
Probably would not (%)	22	28	NaN	NaN	NaN	NaN	NaN	27
Definitely would not (%)	30	27	NaN	NaN	NaN	NaN	NaN	24
Don't know (%)	10	12	NaN	NaN	NaN	NaN	NaN	12
Prefer not to answer (%)	4	4	NaN	NaN	NaN	NaN	NaN	5
Refused (%)	2	2	NaN	NaN	NaN	NaN	NaN	2

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	1,291	1,303	1,029	1,036	1,037
Definitely would (%)	11	10	11	10	12	9	9	9
Probably would (%)	22	23	25	20	21	22	21	19
Probably would not (%)	27	24	25	24	22	25	21	22
Definitely would not (%)	22	19	22	26	27	27	30	29
Don't know (%)	12	16	12	15	13	14	15	16
Prefer not to answer (%)	5	5	5	5	4	3	3	3
Refused (%)	1	2	1	1	1	1	1	2

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Support an organization engaging in non-violent civil disobedience (e.g., sit-ins, blockades, or trespassing) against corporate or government activities that make global warming worse**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	5
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	19
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	36
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	13
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	1,226	0
Definitely would (%)	6	4	NaN	NaN	NaN	NaN	5	NaN
Probably would (%)	18	17	NaN	NaN	NaN	NaN	18	NaN
Probably would not (%)	19	24	NaN	NaN	NaN	NaN	25	NaN
Definitely would not (%)	39	36	NaN	NaN	NaN	NaN	35	NaN
Don't know (%)	12	12	NaN	NaN	NaN	NaN	11	NaN
Prefer not to answer (%)	4	5	NaN	NaN	NaN	NaN	4	NaN
Refused (%)	2	2	NaN	NaN	NaN	NaN	1	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	1,303	1,029	1,036	1,037
Definitely would (%)	NaN	NaN	NaN	NaN	10	9	7	9
Probably would (%)	NaN	NaN	NaN	NaN	21	19	17	17
Probably would not (%)	NaN	NaN	NaN	NaN	18	20	19	19
Definitely would not (%)	NaN	NaN	NaN	NaN	32	33	35	34
Don't know (%)	NaN	NaN	NaN	NaN	14	15	16	17
Prefer not to answer (%)	NaN	NaN	NaN	NaN	5	3	4	3
Refused (%)	NaN	NaN	NaN	NaN	1	1	1	2

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Meet with an elected official or their staff about global warming**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	27
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	31
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	12
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	1,226	1,266
Definitely would (%)	6	4	NaN	NaN	NaN	NaN	8	10
Probably would (%)	22	20	NaN	NaN	NaN	NaN	23	18
Probably would not (%)	24	31	NaN	NaN	NaN	NaN	29	29
Definitely would not (%)	31	27	NaN	NaN	NaN	NaN	25	23
Don't know (%)	11	12	NaN	NaN	NaN	NaN	11	13
Prefer not to answer (%)	4	4	NaN	NaN	NaN	NaN	3	6
Refused (%)	3	3	NaN	NaN	NaN	NaN	1	2

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	1,291	1,303	1,029	1,036	1,037
Definitely would (%)	7	8	10	9	12	9	8	8
Probably would (%)	23	23	21	20	22	18	20	17
Probably would not (%)	28	26	27	24	23	25	23	22
Definitely would not (%)	21	19	22	26	25	27	29	29
Don't know (%)	14	17	14	16	14	17	16	19
Prefer not to answer (%)	5	6	5	5	4	3	3	3
Refused (%)	2	2	1	0	1	1	1	2

(Base: Americans 18+)**How likely would you be to do each of the following things if a person you like and respect asked you to?****Personally engage in non-violent civil disobedience (e.g., sit-ins, blockades, or trespassing) against corporate or government activities that make global warming worse**

	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	1,045
Definitely would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Probably would (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	11
Probably would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	26
Definitely would not (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	42
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	13
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	830	1,013	0	0	0	0	1,226	0
Definitely would (%)	5	3	NaN	NaN	NaN	NaN	4	NaN
Probably would (%)	12	10	NaN	NaN	NaN	NaN	11	NaN
Probably would not (%)	22	28	NaN	NaN	NaN	NaN	28	NaN
Definitely would not (%)	44	41	NaN	NaN	NaN	NaN	41	NaN
Don't know (%)	11	12	NaN	NaN	NaN	NaN	11	NaN
Prefer not to answer (%)	4	5	NaN	NaN	NaN	NaN	4	NaN
Refused (%)	2	2	NaN	NaN	NaN	NaN	1	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	1,303	1,029	1,036	1,037
Definitely would (%)	NaN	NaN	NaN	NaN	8	6	4	5
Probably would (%)	NaN	NaN	NaN	NaN	12	10	11	9
Probably would not (%)	NaN	NaN	NaN	NaN	23	24	26	22
Definitely would not (%)	NaN	NaN	NaN	NaN	38	41	40	44
Don't know (%)	NaN	NaN	NaN	NaN	14	16	14	15
Prefer not to answer (%)	NaN	NaN	NaN	NaN	5	4	4	3
Refused (%)	NaN	NaN	NaN	NaN	1	1	1	2

(Base: Americans 18+)**Over the past 12 months, how many times have you done the following?****Signed a petition about global warming, either online or in person***Note: This question was first asked in March 2021.*

	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
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	5
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	7
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	80
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1

(Base: Americans 18+)**Over the past 12 months, how many times have you done the following?****Donated money to an organization working on global warming***Note: This question was first asked in March 2021.*

	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
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	7
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	81
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1

(Base: Americans 18+)**Over the past 12 months, how many times have you done the following?****Volunteered your time to an organization working on global warming***Note: This question was first asked in March 2021.*

	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
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
Many times (6+) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0
Several times (4-5) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0
A few times (2-3) (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Once (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	3
Never (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	88
Don't know (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	4
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1

(Base: Americans 18+)

Over the past 12 months, how many times have you written letters, emailed, or phoned government officials about global warming?

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	1,001	1,024	1,010	1,000	1,008	1,061	1,045
Many times (6+) (%)	NaN	1	0	1	1	1	1	1
Several times(4-5) (%)	NaN	1	2	1	2	1	1	2
A few times(2-3) (%)	NaN	5	4	4	6	5	6	4
Once (%)	NaN	4	4	4	3	4	4	4
Never (%)	NaN	79	83	83	79	85	85	86
Don't know (%)	NaN	5	5	4	7	3	3	3
Refused (%)	NaN	5	2	4	2	2	0	1

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	800	1,013	1,275	1,263	1,330	1,204	0	1,266
Many times (6+) (%)	1	0	1	1	1	0	NaN	1
Several times(4-5) (%)	2	1	2	1	1	3	NaN	2
A few times(2-3) (%)	6	6	4	4	4	4	NaN	6
Once (%)	4	4	4	4	4	3	NaN	4
Never (%)	87	83	86	86	86	86	NaN	82
Don't know (%)	0	5	3	4	4	4	NaN	5
Refused (%)	0	1	0	0	0	0	NaN	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,304	1,278	1,114	1,291	1,303	1,029	1,036	1,037
Many times (6+) (%)	1	2	1	1	1	1	1	1
Several times(4-5) (%)	3	3	3	2	3	1	1	1
A few times(2-3) (%)	6	7	6	5	5	7	5	5
Once (%)	5	5	5	4	4	5	4	3
Never (%)	80	77	81	86	82	84	86	86
Don't know (%)	5	7	4	2	5	2	2	5
Refused (%)	0	0	0	0	0	0	0	0

(Base: Americans 18+)**When you contacted a government official did you ...**

	Nov 2008	Jan 2010	Jun 2010	May 2011	Nov 2011	Mar 2012	Sep 2012	Apr 2013
(Unweighted Base)	0	104	107	96	118	103	122	109
Urge them to take action to reduce global warming? (%)	NaN	71	71	77	76	76	89	75
Urge them to not take action to reduce global warming? (%)	NaN	22	18	20	20	19	10	18
Other (%)	NaN	7	11	3	4	4	1	8
Refused (%)	NaN	0	0	0	0	1	0	0

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	108	114	140	117	131	124	0	169
Urge them to take action to reduce global warming? (%)	73	76	76	77	81	77	NaN	88
Urge them to not take action to reduce global warming? (%)	21	19	13	19	15	22	NaN	12
Other (%)	6	5	11	4	4	2	NaN	0
Refused (%)	0	0	0	0	0	0	NaN	0

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	190	207	167	152	170	139	119	95
Urge them to take action to reduce global warming? (%)	79	78	79	85	84	88	80	86
Urge them to not take action to reduce global warming? (%)	17	18	18	8	11	9	17	13
Other (%)	4	4	3	6	5	3	3	1
Refused (%)	0	0	0	0	0	0	0	0

(Base: Americans 18+)**How willing or unwilling would you be to join a campaign to convince elected officials to take action to reduce global warming?**

	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
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Prefer not to answer (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	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
I am participating in a campaign like this now (%)	2	1	1	1	1	2	2	2
I definitely would do it (%)	8	5	4	6	6	7	9	9
I probably would do it (%)	18	18	17	18	21	18	22	20
I probably would not do it (%)	16	22	19	20	21	19	16	18
I definitely would not do it (%)	26	26	28	20	19	18	19	20
Not sure (%)	22	21	23	25	23	26	25	22
Prefer not to answer (%)	7	5	8	10	8	9	7	10
Refused (%)	1	1	1	0	1	1	0	0

(Base: Americans 18+)**How willing or unwilling would you be to join a campaign to convince elected officials to take action to reduce global warming? (Cont.)**

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	1,160	1,161	1,010	1,209	1,158	949	942	972
I am participating in a campaign like this now (%)	2	2	2	2	3	1	1	1
I definitely would do it (%)	0	0	0	0	0	0	0	0
I probably would do it (%)	26	22	27	18	23	25	22	24
I probably would not do it (%)	15	16	18	19	15	16	17	20
I definitely would not do it (%)	21	21	18	27	24	25	26	26
Not sure (%)	24	27	29	26	23	23	25	21
Prefer not to answer (%)	11	11	7	8	11	9	9	7
Refused (%)	1	1	0	1	0	0	0	1

(Base: Americans 18+)

How willing or unwilling would you be to join a local campaign to convince your state and local government officials to take action to reduce the causes of global warming?

Note: This question was first asked in March 2021.

	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
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	10
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	18
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	25
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	20
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1

(Base: Americans 18+)**How willing or unwilling are you to join a group to help your local community prepare for and respond to natural disasters (e.g., a community emergency response team or Red Cross)?**

Note: This question was first asked in March 2021.

	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
I am participating in a group like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
I am participating in a group like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
I am participating in a group like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	9
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	35
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	28
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	7
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	19
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	0

(Base: Americans 18+)

How willing or unwilling would you be to join a local campaign to convince your state and local government officials to take action to prepare your community for the impacts of global warming?

Note: This question was first asked in March 2021.

	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
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Nov 2013	Apr 2014	Oct 2014	Mar 2015	Oct 2015	Mar 2016	Nov 2016	May 2017
(Unweighted Base)	0	0	0	0	0	0	0	0
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

	Oct 2017	Mar 2018	Dec 2018	Apr 2019	Nov 2019	Apr 2020	Dec 2020	Mar 2021
(Unweighted Base)	0	0	0	0	0	0	0	1,037
I am participating in a campaign like this now (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1
I definitely would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	5
I probably would do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	24
I probably would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	22
I definitely would not do it (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	25
Not sure (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	21
Refused (%)	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2

Appendix II: Survey Method

The data in this report are based on a nationally representative survey of 1,037 American adults, aged 18 and older. The survey was conducted March 18 – 29, 2021. All questionnaires were self-administered by respondents in a web-based environment. The survey took, on average, about 25 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 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, 316 respondents participated in a previous CCAM survey.

The survey instrument was designed by Anthony Leiserowitz, Seth Rosenthal, Jennifer Carman, Matthew Goldberg, Karine Lacroix, and Jennifer Marlon of Yale University, and Edward Maibach and John Kotcher of George Mason University. The charts and tables were designed by Liz Neyens, Xinran Wang, and Jennifer Marlon 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, at the 95% confidence level, are plus or minus 3 percentage points except where noted.

- 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 - November 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 - 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 $25\% + 25\% = 51\%$).

Appendix III: Sample Demographics

	<i>n</i> (unweighted)	% (weighted)
Total	1,037	100
Female	533	52
Male	504	48
Generation Z (1997 -)	46	9
Millennials (1981 - 1996)	233	31
Generation X (1965 - 1980)	269	25
Baby Boomers (1946 - 1964)	400	30
Silent (1928 - 1945)	89	6
Less than high school	74	11
High school	264	27
Some college	307	30
Bachelor's degree or higher	392	31
<\$25K	89	12
\$25K-<\$50K	177	18
\$50K-<\$75K	186	17
\$75K-<\$100K	148	14
\$100K-<\$125K	139	12
\$125K+	298	26
White, Non-Hispanic	753	63
Black, Non-Hispanic	94	12
Hispanic	106	16
2+ Races, Non-Hispanic	33	2
Other, Non-Hispanic	51	7
Northeast	188	17
Midwest	223	21
South	391	38
West	235	24

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