

This Washington Post-Kaiser Family Foundation poll was conducted online and by telephone July 9-Aug. 5, 2019 among a random national sample of 2,293 adults age 18 and over as well as 629 teenagers ages 13-17. The adult sample includes oversamples in the Southwest, Mountain West/Midwest, New England and Southeast/Gulf Coast regions. Results from the full survey have a margin of sampling error of plus or minus three percentage points among adults and plus or minus five percentage points among teens. The sample was drawn through the AmeriSpeak panel, the probability-based panel of NORC at the University of Chicago. The national and teen samples are weighted to match the geographic and demographic makeup of the U.S. overall, according to Census Bureau data. Parentheticals within questions indicate clauses that were randomly rotated for respondents. Full methodological details at the end of this document.

Unwtd N: Unweighted number of interviews for a given group.

Notes: (1) Table percentages may not add to 100 percent due to rounding. (2) Values less than 0.5 percent are indicated by an asterisk (\*). (3) "vol." indicates that a response was volunteered by respondent and not an explicitly offered choice.

This questionnaire was administered with the exact questions in the exact order as appears in this document.

NEWS\_ATT. (AMONG TEENS) How much attention do you usually pay to what's going on in the news?

	----- Attention -----			----- Less attention -----			
	A lot of	Some		Not much	No attention	No	
	attention	attention	NET	attention	at all	opinion	
8/5/19	67	14	33	26	7	*	

TRUMPAP. Do you approve or disapprove of the way Donald Trump is handling his job as President?

	Approve	Disapprove	No opinion
8/5/19 Adults	37	63	*
8/5/19 Teens	35	64	1

Q0. (AMONG ADULTS) Do you approve or disapprove of the way President Trump is handling each of the following? (items a-f scrambled)

8/5/19 -- Summary table

	Approve	Disapprove	No opinion
a. The economy	50	49	1
b. Health care	36	61	2
c. Immigration	37	62	1
d. Climate change	30	67	3
e. Renewable energy	36	61	3
f. Gun policy	41	57	2

Q1. How important are the following issues to you personally? (items a-f scrambled)

8/5/19 -- Summary table among adults

	--- More important ---			----- Less important -----			No opinion
	NET	Extremely	Very	NET	Somewhat	Not so impt	
a. The economy	86	45	42	13	11	2	*
b. Health care	89	52	36	11	10	2	*
c. Immigration	72	36	36	28	22	6	*
d. Climate change	64	35	29	36	22	14	1
e. Renewable energy	62	28	34	37	29	8	1
f. Gun policy	72	37	34	28	21	7	*

8/5/19 -- Summary table among teens

	--- More important ---			----- Less important -----			No opinion
	NET	Extremely	Very	NET	Somewhat	Not so impt	
a. The economy	73	32	41	27	21	6	*
b. Health care	74	38	36	26	20	6	*
c. Immigration	58	27	31	42	30	12	-
d. Climate change	61	34	26	38	27	12	1
e. Renewable energy	57	27	30	43	32	11	-
f. Gun policy	64	35	28	36	24	13	*

Q2a. (AMONG ADULTS) All else equal, would you like the next president to be someone who (favors) government action to address climate change, or someone who (opposes) such action?

	Someone who favors action	Someone who opposes action	No opinion
8/5/19	76	22	2

Compare to Post-ABC 3/29/15:

All else equal, would you like the next president to be someone who (favors) government action to address climate change, or someone who (opposes) such action?

	Favors gov't action	Opposes gov't action	No opinion
3/29/15	59	31	10

Q2b. (AMONG ADULTS) All else equal, would you like the next president to be someone who wants to (keep) the federal health care law passed in 2010, or someone who wants to (repeal) it?

	Someone who wants to keep the health care law	Someone who wants to repeal the health care law	No opinion
8/5/19	57	40	3

Compare to Post-ABC 3/29/15:

All else equal, would you like the president to be someone who wants to (keep) the federal health care law, or someone who wants to (repeal) it?

	Someone who wants to keep the health care law	Someone who wants to repeal the health care law	No opinion
3/29/15	49	45	6

Q2c. (AMONG ADULTS) All else equal, would you like the next president to be someone who (supports) building a wall along the U.S.-Mexico border, or someone who (opposes) this?

	Someone who supports building a wall	Someone who opposes building a wall	No opinion
8/5/19	40	59	1

Q2d. (AMONG ADULTS) All else equal, would you like the next president to be someone who (supports) access to abortion, or someone who (wants to restrict) access to abortion?

	Someone who supports access to abortion	Someone who wants to restrict access to abortion	No opinion
8/5/19	61	37	2

Q3a1. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO FAVOR ACTION ON CLIMATE CHANGE, Unwtd N=1,767) Is electing someone who favors government action to address climate change extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No opinion
	NET	Extremely	Very	NET	Somewhat	Not so important	
8/5/19	70	37	33	30	26	4	*
3/29/15*	68	31	37	32	29	4	*

\*Post-ABC

Q3a2. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO OPPOSE ACTION ON CLIMATE CHANGE, Unwtd N=485) Is electing someone who opposes government action to address climate change extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No opinion
	NET	Extremely	Very	NET	Somewhat	Not so important	
8/5/19	30	9	21	70	43	28	-
3/29/15*	39	18	21	60	28	32	1

Q3b1. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO KEEP THE FEDERAL HEALTH CARE LAW, Unwtd N=1,317) Is electing someone who wants to keep the federal health care law passed in 2010 extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No opinion
	NET	Extremely	Very	NET	Somewhat	Not so important	
8/5/19	78	41	37	21	19	3	1
3/29/15*	78	41	37	21	17	3	1

\*Post-ABC "the federal health care law"

Q3b2. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO REPEAL THE FEDERAL HEALTH CARE LAW, Unwtd N=913) Is electing someone who wants to repeal the federal health care law passed in 2010 extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No
	NET	Extremely	Very	NET	Somewhat	Not so important	opinion
8/5/19	63	22	40	37	31	6	1
3/29/15*	76	40	36	24	20	4	*

\*Post-ABC "the federal health care law"

Q3c1. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO SUPPORT BUILDING A BORDER WALL, Unwtd N=907) Is electing someone who supports building a wall along the U.S.-Mexico border extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No
	NET	Extremely	Very	NET	Somewhat	Not so important	opinion
8/5/19	75	45	30	25	20	5	*

Q3c2. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO OPPOSE BUILDING A BORDER WALL, Unwtd N=1,361) Is electing someone who opposes building a wall along the U.S.-Mexico border extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No
	NET	Extremely	Very	NET	Somewhat	Not so important	opinion
8/5/19	66	33	33	33	24	10	1

Q3d1. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO SUPPORT ACCESS TO ABORTION, Unwtd N=1,471) Is electing someone who supports access to abortion extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No
	NET	Extremely	Very	NET	Somewhat	Not so important	opinion
8/5/19	71	39	32	28	24	5	1

Q3d2. (AMONG ADULTS WHO WANT THE NEXT PRESIDENT TO RESTRICT ACCESS TO ABORTION, Unwtd N=779) Is electing someone who wants to restrict access to abortion extremely important, very important, somewhat important or not so important to you? (response options rotated)

	--- More important ---			----- Less important -----			No
	NET	Extremely	Very	NET	Somewhat	Not so important	opinion
8/5/19	67	38	29	33	25	8	*

Q5a\_1. Do you think human activity is or is not causing changes to the world's climate, including an increase in average temperature?

	Yes, human activity is causing the climate to change	No, human activity is <u>not</u> causing the climate to change	No opinion
8/5/19 Adults	79	19	2
8/5/19 Teens	86	14	*

Q6b. (AMONG THOSE WHO SAY HUMAN ACTIVITY IS NOT CAUSING THE CLIMATE TO CHANGE, Unwtd N for adults=450, sample size for teens insufficient to report separately) How certain are you that human activity is not causing changes to the world's climate?

	Very certain	Fairly certain	Not too certain	No opinion
8/5/19 Adults	28	48	22	1

Q5a\_1/Q6b Net table based on total:

	Humans are causing climate to change	NET	- Humans <u>not</u> causing climate to change -			No op.
			Very certain	Fairly certain	Not too certain	
8/5/19 Adults	79	19	6	9	4	2
8/5/19 Teens	86	14	3	9	2	*

Q5b\_1. (AMONG THOSE WHO SAY HUMAN ACTIVITY IS NOT CAUSING THE CLIMATE TO CHANGE, Unwtd N for adults=450, sample size for teens insufficient to report separately) Which comes closer to your view?

	The world's climate has not been changing	The world's climate has been changing, but human activities are not the main cause	No opinion
8/5/19 Adults	14	85	1

Q5a\_1/Q5b\_1 Net table based on total:

	Humans are causing climate to change	NET	-----Humans <u>not</u> causing climate to change-----		No op.
			Climate hasn't been changing	Climate is changing, humans aren't main cause	
8/5/19 Adults	79	19	3	16	*
8/5/19 Teens	86	14	3	11	*

Q6a. (AMONG THOSE WHO SAY HUMAN ACTIVITY IS CAUSING THE CLIMATE TO CHANGE) How certain are you that human activity is causing changes to the world's climate?

	Very certain	Fairly certain	Not too certain	No opinion	Unwtd N
8/5/19 Adults	55	36	8	1	1,810
8/5/19 Teens	54	39	7	-	547

Q5a\_1/Q6a Net table based on total:

	- Humans are causing climate change -				Humans <u>not</u> causing climate change	
	NET	Very certain	Fairly certain	Not too certain	No opinion	
8/5/19 Adults	79	43	29	6	19	2
8/5/19 Teens	86	46	33	6	14	*

Q7b HELD FOR FUTURE RELEASE

Q7c. Thinking about what is said in the news, in your view is the seriousness of climate change generally (exaggerated), generally correct, or is it generally (underestimated)?

Generally	Generally	Generally	No
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	exaggerated	correct	underestimated	opinion
8/5/19 Adults	24	42	33	1
8/5/19 Teens	21	47	31	*

Q8. Are your views on climate change based more on your personal experiences and observations, or based more on what you've heard or read?

	Based more on your personal experiences and observations	Based more on what you've heard or read	No opinion
8/5/19 Teens	36	63	1

Q8 ADULTS HELD FOR FUTURE RELEASE

Q11. How much do you feel you know about each of the following? (items a and b rotated)

8/5/19 -- Summary table adults

	----- A lot/moderate -----			--- A little/Nothing ---			No op.
	NET	A lot	A moderate amount	NET	A little	Nothing	
a. The causes of climate change	65	17	48	34	29	5	1
b. Ways to reduce the effects of climate change	56	13	43	43	36	7	1

8/5/19 -- Summary table teens

	----- A lot/moderate -----			--- A little/Nothing ---			No op.
	NET	A lot	A moderate amount	NET	A little	Nothing	
a. The causes of climate change	64	20	44	36	32	4	*
b. Ways to reduce the effects of climate change	55	15	40	45	38	7	*

Q11a. (AMONG TEENS) How much have you learned about the following at school? (items a and b rotated)

8/5/19 -- Summary table teens

	----- A lot/moderate -----			--- A little/Nothing ---			No op.
	NET	A lot	A moderate amount	NET	A little	Nothing	
a. The causes of climate change	54	17	37	46	36	11	*
b. Ways to reduce the effects of climate change	46	14	31	54	39	15	*

Compare to Yale 7/22/10:

(AMONG TEENS) How much have you learned about the following at school?

	--- A lot/Some ---			--- A little/Nothing ---			No opinion
	NET	A lot	Some	NET	A little	Nothing	
a. The causes of global warming	57	22	35	43	28	15	--
b. Ways to reduce global warming	55	25	30	45	29	16	--

Q12. As far as you know, is each of the following a major contributor to global warming and climate change, a minor contributor, or not a contributor? (items a-j scrambled)

8/5/19 -- Summary table teens

	Major contributor	Minor contributor	Not a contributor	Don't know	No op.
a. Driving cars and trucks	62	30	4	4	*
b. Burning fossil fuels for heat and electricity	61	25	5	8	*
c. Cutting down forests	62	24	8	6	1
d. Volcanic eruptions	20	44	18	18	*
e. Raising cows for food and milk	18	30	37	14	1
f. Airplane travel	30	40	14	16	*
g. The sun getting hotter	39	24	22	15	*
h. People using too much water	25	37	23	15	*
i. Plastic bottles and bags	57	28	10	5	*
j. Cement manufacturing	18	29	15	37	*

Q12 ADULTS HELD FOR FUTURE RELEASE

Q55. Does the issue of climate change make you feel each of the following, or not? (items a-g scrambled)

8/5/19 -- Summary table adults (each asked of half sample)

	Yes	No	No opinion	Unwtd N
a. Angry	50	49	1	1,102
b. Uninterested	17	82	1	1,102
c. Afraid	53	46	1	1,191
d. Optimistic	25	73	1	1,102
e. Helpless	53	46	1	1,102
f. Motivated	54	44	2	1,191
g. Guilty	37	61	2	1,191

8/5/19 -- Summary table teens

	Yes	No	No opinion
a. Angry	52	47	1
b. Uninterested	20	79	1
c. Afraid	57	43	*
d. Optimistic	29	69	1
e. Helpless	43	57	*
f. Motivated	54	46	1
g. Guilty	42	57	1

Q13. (AMONG THOSE WHO SAY HUMAN ACTIVITY IS CAUSING THE CLIMATE TO CHANGE, Unwtd N=1,810 adults; 547 teens) Which of the following comes closer to your view, even if neither is exactly right:

	There are things I can do personally to make a difference when it comes to reducing the effects of climate change	Climate change is such a big problem that there is very little I can do personally to help reduce its effects	No opinion
8/5/19 Teens	64	35	1

Q13 ADULTS HELD FOR FUTURE RELEASE

Q14. Would you say that climate change is best described as a crisis, a major problem but not a crisis, a minor problem, or is it not a problem at all?

	A crisis	A major problem but not a crisis	A minor problem	Not a problem at all	No op.
8/5/19 Adults	38	38	15	8	1
10/8/14 Adults*	23	36	23	16	2
8/5/19 Teens	39	41	15	5	*

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Q16. (AMONG THOSE WHO SAY HUMAN ACTIVITY IS CAUSING THE CLIMATE TO CHANGE) Do you think there is still time to prevent the worst effects of climate change or is it already too late?

	There is still time to prevent the worst effects	It is already too late	No opinion	Unwtd N
8/5/19 Adults	84	15	*	1,810
8/5/19 Teens	88	11	*	547

Q17/Q17a. (AMONG THOSE WHO SAY THERE IS STILL TIME TO PREVENT THE WORST EFFECTS, Unwtd N=1,546 adults; 476 teens) How much time do people have to act before it becomes too late? Within the next 10 years, within 11 to 20 years, or do people have more than 20 years to act? (ASKED OF THOSE WHO SAY WITHIN 10 YEARS) Do you think people need to act within the next year or two, or within the next 3 to 10 years?

	--- Within the next 10 years ---					No
	NET	Within the next yr or 2	Within 3 to 10 yrs	Within 11 to 20 yrs	People have more than 20 yrs to act	op.
8/5/19 Adults	60	42	18	26	13	1
8/5/19 Teens	54	39	15	30	15	1

Q16/Q17/Q17a Net table based on those who say human activity is causing the climate to change (Unwtd N=1,810 adults; 547 teens):

	----- There is still time -----						
	NET	Next year or two	Three to 10 years	11 to 20 yrs	More than 20 years	It is already too late	No op.
8/5/19 Adults	84	35	15	22	11	15	1
8/5/19 Teens	88	35	14	27	13	11	1



Q18. Which comes closer to your view of how much the U.S. needs to reduce its fossil fuel use in order to prevent the worst effects of climate change (response options rotated):

	The U.S. needs to drastically reduce its fossil fuel use in the next few years	The U.S. needs to gradually reduce its fossil fuel use over the next few decades	The U.S. does not need to reduce its fossil fuel use to deal w/climate change	No op.
8/5/19 Adults	46	41	12	2
8/5/19 Teens	44	46	9	2

Q20. Do you think reducing the negative effects of global warming and climate change will require major sacrifices from ordinary Americans, minor sacrifices, or won't it require much sacrifice?

	Major sacrifices	Minor sacrifices	Won't require much sacrifice	No opinion
8/5/19 Adults	37	48	14	1
8/5/19 Teens	42	47	10	1

Q21. How likely do you think it is that technological advances will be able to reduce most of the negative effects of climate change?

	NET	Likely Very likely	Somewhat likely	NET	Less likely Not too likely	Less likely Not at all likely	No opinion
8/5/19 Adults	71	21	50	28	20	7	2
8/5/19 Teens	78	21	58	21	17	4	*

Q22a. (AMONG ADULTS) How worried are you, if at all, about each of the following? (items a-c scrambled)

8/5/19 -- Summary table

	NET	Worried Very	Worried Somewhat	NET	Less worried Not too	Less worried Not at all	No op.
a. Climate change will cause harm to the health of people living in the U.S.	70	35	35	29	19	11	1
b. Government regulations aimed at addressing climate change will hurt the U.S. economy	51	19	32	48	34	14	1
c. Government regulations and taxes aimed at addressing climate change will cause financial stress for ordinary Americans	60	23	38	39	29	10	*

Q23. Do you think each of the following are doing (too little), (too much), or about the right amount to reduce greenhouse gas emissions? (items a-i scrambled)

8/5/19 -- Summary table adults\*

	Doing too little	Doing too much	Doing the right amount	No op.	Unwtd N
a. The Chinese government	76	5	12	6	1,123
b. The U.S. government	67	10	21	2	2,293
c. Your state government	60	9	28	3	2,293
d. Energy companies	65	7	24	4	1,123
e. Businesses and corporations	72	6	20	2	1,170
f. Individuals in your community	62	5	29	4	1,123
g. The Republican Party	69	6	23	2	1,170
h. The Democratic Party	56	17	25	2	1,170
i. President Trump	66	5	27	3	1,170

\*Items b and c asked of full sample; items a and d-i asked of half sample

8/5/19 -- Summary table teens

	Doing too little	Doing too much	Doing the right amount	No opinion
b. The U.S. government	74	9	17	*
f. Individuals in your community	68	6	25	*

Q25. Which political party do you trust to do a better job handling climate change? ("The Democrats" and "The Republicans" rotated)

	The Democrats	The Republicans	Neither	Both equally	No opinion
8/5/19 Adults	38	17	35	10	1
8/5/19 Teens	31	17	36	15	*

Q27b. (AMONG ADULTS) Do you support or oppose the U.S. pulling out of the Paris climate agreement, or don't you know enough to say?

	Support	Oppose	Don't know	No opinion
8/5/19	16	36	48	*

Q27c. (AMONG ADULTS) Would you support or oppose a plan to relax carbon emissions standards for coal-fired power plants, or don't you know enough to say?

	Support	Oppose	Don't know	No opinion
8/5/19	19	38	43	1

Q29a. (AMONG ADULTS; ASKED OF HALF SAMPLE, Unwtd N=1,189) The federal government issues permits to allow energy companies to extract fossil fuels such as oil, natural gas and coal on some land owned by the federal government. Do you think the federal government should (increase) or (decrease) the amount of fossil fuel extraction that is allowed on public lands, or should it stay as it is?

	Increase	Decrease	Stay as it is	No opinion
8/5/19	13	51	32	3

Q29b. (AMONG ADULTS; ASKED OF HALF SAMPLE, Unwtd N=1,104) The federal government allows energy companies to drill for fossil fuels such as oil and natural gas in some waters off the coast of the U.S. Do you think the federal government should (increase) or (decrease) the amount of fossil fuel extraction that is allowed in coastal waters, or should it stay as it is?

	Increase	Decrease	Stay as it is	No opinion
8/5/19	14	53	32	1

Q30a. (AMONG ADULTS) Would you support or oppose your state government setting stricter fuel efficiency standards for cars and trucks than the federal government?

	Support	Oppose	No opinion
8/5/19	67	31	2

Q30b. (AMONG ADULTS) Would you support or oppose your state government setting more ambitious targets than the federal government for the amount of energy that must come from renewable sources?

	Support	Oppose	No opinion
8/5/19	71	26	3

Q26. Do you think President Trump's policies have increased or decreased the country's risk for long-term negative effects from climate change, or haven't his policies made much of a difference?

	Increased the country's risk	Decreased the country's risk	Haven't made much difference	No opinion
8/5/19 Adults	44	12	43	2
8/5/19 Teens	40	16	44	1

Q27a. (AMONG ADULTS) An Obama administration rule requires car companies to greatly increase the fuel efficiency of cars and trucks by 2025. President Trump has a plan to freeze fuel efficiency standards close to their current level. Do you support or oppose Trump's plan?

	Support Trump's plan	Oppose Trump's plan	No opinion
8/5/19	31	66	3

Q32. (AMONG ADULTS) Would you support or oppose each of the following ways to pay for policies aimed at reducing greenhouse gas emissions in the U.S.? (response options rotated; items a-f scrambled)

8/5/19 -- Summary table

	NET	Support Strongly	Somewhat	NET	Oppose Somewhat	Strongly	No op.
a. A \$2 monthly tax on U.S. residential electric bills	47	17	29	51	19	33	2
b. Raising taxes on wealthy households	68	44	24	31	13	18	1
c. Increasing the federal gasoline tax by 10 cents per gallon	35	11	23	64	24	40	1
d. A \$10 monthly tax on U.S. residential electric bills	27	6	21	71	22	49	2
e. Raising taxes on companies that burn fossil fuels like coal, natural gas, and oil, even if that may lead to increased electricity and transportation prices	60	32	28	38	17	21	2
f. Increasing the federal gasoline tax by 25 cents per gallon	25	7	18	74	24	50	1

Q32G. (AMONG ADULTS) Would you support or oppose adding to the national debt in order to pay for policies aimed at reducing greenhouse gas emissions in the U.S.? (response options rotated)

	Support			Oppose			No opinion
	NET	Strongly	Somewhat	NET	Somewhat	Strongly	
8/5/19	41	11	30	57	29	28	2

Q32H. (AMONG ADULTS WHO SUPPORT ADDING TO THE NATIONAL DEBT TO PAY TO REDUCE GREENHOUSE GAS EMISSIONS, Unwtd N=949) What if you heard that the national debt is currently around \$22 trillion? Would you support or oppose adding to the national debt in order to pay for policies aimed at reducing greenhouse gas emissions in the U.S.? (response options rotated)

	Support			Oppose			No opinion
	NET	Strongly	Somewhat	NET	Somewhat	Strongly	
8/5/19	79	23	56	20	14	6	1

Q32G/Q32H Net table based on total adults:

	Support			Oppose			No opinion
	NET	Strongly	Somewhat	NET	Somewhat	Strongly	
8/5/19	32	9	23	66	35	30	2

Q33 THROUGH Q41 ADULTS HELD FOR FUTURE RELEASE

Q33. How much, if at all, have you heard or read about a proposal called the Green New Deal?

	Heard about the GND			Heard less			No op.
	NET	A great deal	A good amount	NET	A little	Nothing at all	
8/5/19 Teens	18	6	12	81	30	52	*

Q34. There is a proposal called the Green New Deal which has been put forward to address climate change. From what you've heard or read, do you support or oppose the Green New Deal, or haven't you heard enough to have an opinion? (response options rotated)

	Support			Oppose			Haven't heard enough/ No opinion
	NET	Strongly	Somewhat	NET	Somewhat	Strongly	
8/5/19 Teens	25	9	16	12	5	7	63

Q35. (AMONG THOSE WHO HAVE HEARD AT LEAST A LITTLE ABOUT THE GREEN NEW DEAL) Do you think the Green New Deal is or is not realistic?

	Realistic	Not realistic	No opinion	Unwtd N
8/5/19 Teens	57	41	1	293

Q38. In your opinion, do you think extreme weather events are becoming more severe, becoming less severe, or staying about the same?

	Becoming more severe	Becoming less severe	Staying about the same	Don't know	No opinion
8/5/19 Teens	61	10	29	NA	*

Q38a. (AMONG THOSE WHO SAY EXTREME WEATHER EVENTS ARE BECOMING MORE SEVERE)  
 Do you think the severe weather is (caused mostly by climate change), caused about equally by climate change and natural year-to-year variations in the weather, or (caused mostly by natural year-to-year variations in the weather)? (response options rotated)

	Caused mostly by climate change	Caused about equally by climate change and natural year-to-year variations	Caused mostly by natural year-to-year variations	No opinion	Unwtd N
8/5/19 Teens	39	47	14	*	394

Q40. In the past 5 years, has the area where you live been affected by each of the following, or not? (items a-e scrambled)

8/5/19 -- Summary table adults

	Yes	No	No opinion
a. Extremely hot days	80	20	*
b. Severe storms, including hurricanes	48	51	1
c. Flooding	53	47	*
d. Droughts and water shortages	39	61	1
e. Wildfires	29	70	1

8/5/19 -- Summary table teens

	Yes	No	No opinion
a. Extremely hot days	83	17	-
b. Severe storms, including hurricanes	49	50	*
c. Flooding	55	45	*
d. Droughts and water shortages	36	63	1
e. Wildfires	31	69	1

Q41. (AMONG THOSE WHO SAID YES TO EACH) Do you think climate change is a major factor, a minor factor, or not a factor contributing to each of the following in the area where you live? (items a-e scrambled)

8/5/19 -- Summary table teens

	Major factor	Minor factor	Not a factor	No opinion	Unwtd N
a. Extremely hot days	63	29	8	*	523
b. Severe storms, including hurricanes	58	29	14	-	312
c. Flooding	50	32	18	*	354
d. Droughts and water shortages	67	28	5	1	206
e. Wildfires	58	36	6	-	166

Q40/Q41 Net table based on total:

8/5/19 -- Summary table adults

	Major factor	Minor factor	Not a factor	No opinion	Unwtd N
a. Extremely hot days	63	25	11	1	1,776
b. Severe storms, including hurricanes	63	25	11	1	1,070
c. Flooding	56	30	14	*	1,156
d. Droughts and water shortages	63	27	10	*	901
e. Wildfires	54	32	14	1	705

8/5/19 -- Summary table teens

	----- Yes -----					No opinion
	NET	Major factor	Minor factor	Not a factor	No	
a. Extremely hot days	83	53	24	7	17	-
b. Severe storms, including hurricanes	49	28	14	7	50	*
c. Flooding	55	27	18	10	45	*
d. Droughts and water shortages	36	24	10	2	63	1
e. Wildfires	31	18	11	2	69	1

Q44. How much, if at all, do you think climate change will hurt the following people or groups in the long term? (items a-h scrambled)

8/5/19 -- Summary table adults

	NET	----- Will hurt more -----		-- Will hurt less ---			No op.
		A great deal	A moderate amount	NET	Only a little	Not at all	
a. You personally	60	26	34	39	23	16	1
b. People in the U.S.	71	37	34	27	15	12	1
c. People in poorer developing countries	76	58	19	22	10	12	2
d. People in lower-income communities in the U.S.	73	48	25	26	13	13	1
e. People in your state	69	35	34	28	16	12	2
f. People living in costal areas of the U.S.	77	55	22	21	12	10	2
g. People in your generation	66	31	34	33	20	13	2
h. People in future generations	78	60	19	20	10	10	2

8/5/19 -- Summary table teens

	NET	----- Will hurt more ----- A great deal	A moderate amount	NET	-- Will hurt less --- Only a little	Not at all	No op.
a. You personally	64	28	36	35	25	11	*
b. People in the U.S.	76	37	39	24	18	6	*
c. People in poorer developing countries	84	60	24	15	10	6	*
d. People in lower-income communities in the U.S.	78	47	31	22	15	7	*
e. People in your state	72	36	36	27	20	8	*
f. People living in costal areas of the U.S.	80	54	26	19	14	6	*
g. People in your generation	73	39	34	26	19	7	*
h. People in future generations	84	63	21	15	11	4	1

Q46a AND Q46b ADULTS HELD FOR FUTURE RELEASE

Q46a. In the past 2 years, have you personally taken any actions in order to reduce your own carbon footprint, or not?

	Yes, I have taken actions to reduce my carbon footprint	No, I have not taken actions to reduce my carbon footprint	No opinion
8/5/19 Teens	41	58	*

Q46b. (AMONG THOSE WHO HAVE TAKEN ACTIONS, Unwtd N=255) What specific actions have you taken?(OPEN-END; RECORD RESPONSE VERBATIM) (ALLOW UP TO 5 RESPONSES)

Percentages will add up to more than 100 due to multiple responses

8/5/19 - Summary table teens	Yes
Recycle	38
Limit driving/don't drive/public transportation/bike	34
Reduce plastic/packaging/straws	20
Using less energy/electricity in home/personal life	13
Reusable bottles/containers/bags/straws/Reusing things in general	11
Water conservation	9
Gardening/planting trees/growing food	5
Reducing waste	5
Reducing animal product consumption/vegan/vegetarian	3
Picking up trash	3
Composting	2
Education/raising awareness	2
Minimalist/buying fewer things/clothing/furniture/using less in general	2
Buying natural/organic products/green products	2
Hybrid/electric/energy efficient car	1
Using fewer aerosols	1
Solar panels/clean energy sources	1
Political action/support green organizations and companies	1
Donating goods	1
Other	4
Nothing	3
No opinion	12

Q46a/Q46b Net table based on total:

Percentages will add up to more than 100 due to multiple responses

8/5/19 -- Summary table teens

Yes, I have taken actions to reduce my carbon footprint	41
Recycle	16
Limit driving/don't drive/public transportation/bike	14
Reduce plastic/packaging/straws	8
Using less energy/electricity in home/personal life	6
Reusable bottles/containers/bags/straws/Reusing things in general	4
Water conservation	4
Gardening/planting trees/growing food	2
Reducing waste	2
Reducing animal product consumption/vegan/vegetarian	1
Picking up trash	1
Composting	1
Education/raising awareness	1
Minimalist/buying fewer things/clothing/furniture/using less in general	1
Buying natural/organic products/green products	1
Hybrid/electric/energy efficient car	1
Using fewer aerosols	*
Solar panels/clean energy sources	*
Political action/support green organizations and companies	*
Donating goods	*
Other	2
Nothing	1
No opinion	5
No, I have not taken actions to reduce my carbon footprint	58
No opinion	*

Q48. How often do you discuss climate change or global warming with each of the following? (items a and b scrambled; response options rotated)

8/5/19 -- Summary table adults

	----- More often -----			---- Less often ----			No opinion
	NET	Often	Occasionally	NET	Rarely	Never	
a. Your family members	47	12	35	53	29	24	*
b. Your friends	46	10	36	54	29	24	*

8/5/19 -- Summary table teens

	----- More often -----			---- Less often ----			No opinion
	NET	Often	Occasionally	NET	Rarely	Never	
a. Your family members	46	10	36	54	31	23	1
b. Your friends	38	10	28	61	32	29	1



Q50. In the past 3 years, have you done any of the following to express your views on climate change or global warming, or not? (items a-d scrambled)

8/5/19 -- Summary table teens

	Yes	No	No opinion
a. Participated in a protest, rally, or other event	13	86	1
b. Participated in a school walk-out	15	84	1
c. Written a letter, emailed, or phoned a government official	12	87	1

Q50 ADULTS HELD FOR FUTURE RELEASE

D1 HELD FOR FUTURE RELEASE

RVOTE. (AMONG ADULTS) Are you currently registered to vote at your current address, registered at a different address, or not currently registered?

8/5/19 -- Summary Table

Registered (NET)	82
Registered at current address	76
Registered at different address	7
Not registered (NET)	14
Not currently registered	11
Not eligible to vote	3
Not sure	4
Skipped/Refused	*

Q60. Generally speaking, do you think of yourself as a (Democrat), (Republican), an independent, or another party?

	Democrat	Republican	Independent	Other	No opinion
8/5/19 Adults	37	25	29	7	1
8/5/19 Teens	32	22	36	9	1

Q60A. (AMONG THOSE WHO THINK OF THEMSELVES AS AN INDEPENDENT, OTHER PARTY, DON'T KNOW, REFUSED, OR SKIPPED Q60) Do you lean more towards the (Democratic Party) or the (Republican Party)?

	Democratic Party	Republican Party	Neither	No opinion	Unwtd N
8/5/19 Adults	30	23	46	1	894
8/5/19 Teens	24	16	59	1	277

IDEOLOGY. (AMONG ADULTS) Would you say your views on most political matters are very liberal, somewhat liberal, moderate, somewhat conservative, or very conservative? (response options rotated)

	----- Liberal -----			--- Conservative ---			Don't know/	
	NET	Very	Somewhat	Moderate	NET	Somewhat	Very	Refused
8/5/19	29	11	18	41	29	19	10	1

RELIG. (AMONG ADULTS) What is your present religion, if any?

8/5/19 -- Summary Table

Protestant/Roman Catholic/Mormon/Orthodox (NET)	49
Protestant	27
Roman Catholic	21
Mormon	1
Orthodox	1
Jewish	2
Muslim	1
Buddhist	1
Hindu	*
Atheist	3
Agnostic	4
Nothing in particular	17
Just Christian	17
Unitarian	1
Something else	4
Don't know/Refused	*

PABORN. (AMONG ADULTS) Would you describe yourself as a "born-again" or evangelical Christian, or not?

	Yes, would	No, would not	Don't know/Refused
8/5/19	29	71	*

D4. (AMONG ADULTS) How often do you attend religious services?

8/5/19 -- Summary Table

Never	25
Less than once a year	14
About once or twice a year	13
Several times a year	14
About once a month	4
2-3 times a month	5
Nearly every week	6
Every week	14
Several times a week	5
Don't know/Refused	0

DEMOGRAPHICS (FROM AMERISPEAK PANEL PROFILE DATA)

GENDER.

	Male	Female
8/5/19 Adults	48	52
8/5/19 Teens	51	49

AGE4. (AMONG ADULTS) 4 Age Categories

	18-29	30-49	50-64	65+
8/5/19	20	34	26	20

AGE\_TEEN. (AMONG TEENS) 2 Age Categories

	13-14	15-17
8/5/19	40	60

RACETHNICITY. Combined Race/Ethnicity

	White, Non-Hisp.	Black, Non-Hisp.	Other, Non-Hisp.	Hispanic	2+, Non-Hisp.	Asian, Non-Hisp.
8/5/19 Adults	64	12	1	16	4	3
8/5/19 Teens	53	13	2	24	6	2

EDUC4. (AMONG ADULTS) 4-level Education

	----- HS GRAD OR LESS -----			----- SOME COLLEGE OR MORE -----		
	NET	No HS diploma	HS grad	NET	Some college	BA or above
8/5/19	39	11	28	61	31	30

MARITAL. (AMONG ADULTS) Are you...?

8/5/19 -- Summary Table

Married	45
Not Married (NET)	55
Widowed	6
Divorced	12
Separated	2
Never married	25
Living with partner	10

EMPLOY. (AMONG ADULTS) Current employment status

8/5/19 -- Summary Table

Working (NET)	59
Working - as a paid employee	50
Working - self-employed	9
Not working (NET)	41
Not working - on temporary lay-off from a job	1
Not working - looking for work	6
Not working - retired	18
Not working - disabled	9
Not working - other	8

INCOME. (AMONG ADULTS) Household income

8/5/19 -- Summary Table

Less than \$20,000	18
\$20,000 to less than \$40,000	24
\$40,000 to less than \$75,000	26
\$75,000 to less than \$100,000	12
\$100,000 or more	19

\*\* END \*\*

## Methodology

The Washington Post-Kaiser Family Foundation Survey Project is a partnership combining survey research and reporting to better inform the public. The Post-KFF Climate Change Survey, the 34th in the series, was conducted with a probability-based sample of 2,293 adults ages 18 and over and 629 teens between the ages of 13 and 17. Interviews were administered online and by telephone from July 9 through August 5, 2019 in English and Spanish.

NORC at the University of Chicago conducted sampling, interviewing, and tabulation for the survey using the AmeriSpeak Panel, a representative panel of adults age 18 and over living in the United States. AmeriSpeak Panel members are recruited through probability sampling methods using the NORC National Sample Frame, an address-based sampling frame. Panel members who do not have internet access complete surveys via telephone, and internet users complete surveys via the web (for the current study, 303 adults and 8 teens completed via phone; 1,990 adults and 621 teens via web). In order to allow for separate regional analysis, adult panelists living in the following regions were selected at disproportionately higher rates: Southwest (Arizona, New Mexico, Nevada, Utah, Colorado); Upper Mountain West/Midwest (Minnesota, North Dakota, South Dakota, Montana, Idaho); New England (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island); and Southeast (Florida, Georgia, South Carolina, North Carolina, Alabama, Mississippi, Louisiana, Texas gulf coast counties: Orange, Jefferson, Chambers, Galveston, Harris, Brazoria, Matagorda, Jackson, Calhoun, Victoria, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, Cameron).

Fully enrolled teens (i.e., those for whom NORC has obtained parent consent, teen assent, and a complete teen profile) were eligible for sampling and recruitment from NORC's AmeriSpeak Teen Panel, a probability-based panel of teens recruited via parents in the AmeriSpeak adult panel.

The combined results for teens and adults have been adjusted to weight oversampled geographic areas back to their accurate share of the adult population and to account for systematic nonresponse along known population parameters.

For adults, the first weighting stage made adjustments to account for the regional oversampling and for differential nonresponse to the survey screening interview. In the second weighting stage, the sample was adjusted to match known demographic distributions of the U.S. population using the following parameters: age, sex, education, race/ethnicity, and Census Division. Interviews in the oversampled regions were also weighted to match demographics within those regions. Region-level population benchmarks were obtained from the U.S. Census Bureau's American Fact Finder for race/ethnicity and from the U.S. Census Bureau's 2017 American Community Survey (ACS) for all other benchmarks.

The teen sample was weighted using a similar procedure, except that there was no regional oversampling for the teen sample so no oversample adjustment was needed. Demographic benchmarks for teens were obtained from the 2017 ACS for age, sex, parents' highest education, race/ethnicity, and Census Division.

The margin of sampling error including the design effect for the full sample is plus or minus 3 percentage points for adults and 5 percentage points for teens. All statistical tests of significance account for the effect of weighting. For results based on other subgroups, the margin of sampling error may be higher. Sample sizes and margins of sampling error for other subgroups are available by request. Note that sampling error is only one of many potential sources of error in this or any other public opinion poll.

This questionnaire was administered with the exact questions in the exact order as appears in this document; question numbering may not be sequential. If a question was asked of a reduced base of the sample, a parenthetical preceding the question identifies the group asked.

The Kaiser Family Foundation and The Washington Post paid for the survey and

representatives of The Washington Post and the Kaiser Family Foundation worked together to develop the survey questionnaire and analyze the results. Each organization bears the sole responsibility for the work that appears under its name. The project team from the Kaiser Family Foundation included: Mollyann Brodie, Ph.D., Liz Hamel, Lunna Lopes, and Cailey Muñana. The project team from The Washington Post included: Scott Clement and Emily Guskin. Both The Washington Post and the Kaiser Family Foundation Public Opinion and Survey Research team are charter members of the [Transparency Initiative](#) of the American Association for Public Opinion Research.

