**2018 PEW RESEARCH CENTER’S AMERICAN TRENDS PANEL**

**WAVE 33 MARCH**

**FINAL TOPLINE**

**MARCH 27-APRIL 9, 2018**

**TOTAL N=2,541**

**ASK ALL:**

FUTURE Do you think each of the following things will or will not happen in the next 50 years, that is, before the year 2068? **[RANDOMIZE ITEMS]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Will definitely happen | Will probably happen | Will probably not happen | Will definitely not happen | No Answer |
| a. People will routinely travel in space as tourists |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 9 | 42 | 41 | 9 | 0 |
|  |  |  |  |  |  |
| b. People will build colonies that can be lived in for long periods of time on other planets[[1]](#footnote-1) |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 5 | 28 | 50 | 18 | 1 |
|  |  |  |  |  |  |
| c. Most of the meat people eat will be grown in a lab |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 5 | 36 | 49 | 9 | 0 |
|  |  |  |  |  |  |
| d. The average person in the U.S. will live to be at least 120 years old[[2]](#footnote-2) |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 4 | 22 | 53 | 20 | 1 |
|  |  |  |  |  |  |
| e. We will eliminate almost all birth defects by manipulating the genes of an embryo before a baby is born |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 8 | 44 | 40 | 8 | 0 |
| Mar 2-Mar 28, 2016[[3]](#footnote-3) | 7 | 40 | 44 | 9 | 1 |
|  |  |  |  |  |  |
| f. We will routinely use implanted sensors to monitor and adjust all food and medications that enter our bloodstream |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 8 | 45 | 36 | 10 | 0 |
| Mar 2-Mar 28, 2016 | 8 | 40 | 43 | 7 | 1 |
|  |  |  |  |  |  |

**ASK ALL:**

SPACE1 In the past 12 months, how much, if anything, have you heard or read about NASA, the National Aeronautics and Space Administration?

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 10 | A lot |
| 55 | A little |
| 35 | Nothing at all |
| 0 | No Answer |
|  |  |

**NO SPACE 2**

**ASK ALL:**

SPACE3 How would you rate each of the following priorities for NASA’s space efforts? **[RANDOMIZE ITEMS]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Should be a top priority | Should be an important but lower priority | Should not be too important | Should  not be done | No Answer |
| a. Searching for life and planets that could support life |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 31 | 42 | 20 | 7 | 1 |
|  |  |  |  |  |  |
| b. Searching for raw materials and natural resources that could be used on Earth |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 34 | 43 | 16 | 5 | 0 |
|  |  |  |  |  |  |
| c. Conducting basic scientific research to increase knowledge and understanding of space |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 47 | 40 | 10 | 2 | 1 |
|  |  |  |  |  |  |
| d. Developing technologies that could be adapted for uses other than space exploration |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 41 | 44 | 11 | 3 | 1 |
|  |  |  |  |  |  |
| e. Monitoring asteroids and other objects that could potentially hit the Earth |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 62 | 29 | 7 | 2 | 1 |
|  |  |  |  |  |  |
| f. Monitoring key parts of the Earth’s climate system |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 63 | 25 | 7 | 3 | 1 |
|  |  |  |  |  |  |
| g. Sending human astronauts to explore the moon |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 13 | 42 | 38 | 6 | 0 |
| **SPACE3 CONTINUED…** |  |  |  |  |  |
|  | Should be a top priority | Should be an important but lower priority | Should not be too important | Should  not be done | No Answer |
| h. Sending human astronauts to explore Mars |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 18 | 45 | 30 | 7 | 0 |
|  |  |  |  |  |  |
| i. Conducting scientific research on how space travel affects human health |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 38 | 41 | 17 | 3 | 1 |
|  |  |  |  |  |  |

**ASK ALL:**

SPACE4 Do you think the space station has been…

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 80 | A GOOD investment for this country |
| 19 | NOT a good investment for this country |
| 2 | No Answer |
|  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: Do you think the SPACE STATION has been a good investment for this country, or don’t you think so?*

|  |  |
| --- | --- |
| *Aug. 15-25*  *2014* |  |
| *64* | *Good investment* |
| *29* | *Not a good investment* |
| *7* | *Don’t know/Refused* ***(VOL.)*** |
|  |  |

**ASK ALL:**

SPACE5 The cost of sending human astronauts to space is considerably greater than the cost of using robotics for space exploration.

As you think about the future of the U.S. space program, do you think it is…

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 58 | ESSENTIAL to include the use of human astronauts in space |
| 41 | NOT ESSENTIAL to include the use of human astronauts in space |
| 1 | No Answer |
|  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: The cost of sending human astronauts to space is considerably greater than the cost of using robotic machines for space exploration. As you think about the future of the U.S. space program, do you think it is essential or not essential to include the use of human astronauts in space?*

|  |  |
| --- | --- |
| *Aug. 15-25*  *2014* |  |
| *59* | *Essential* |
| *39* | *Not essential* |
| *3* | *Don’t know/Refused* ***(VOL.)*** |
|  |  |

**ASK ALL:**

SPACE6 In your view, do you think it is…

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 72 | ESSENTIAL that the United States continue to be a world leader in space exploration |
| 27 | NOT ESSENTIAL that the United States continue to be a world leader in space exploration |
| 1 | No Answer |
|  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: In your view, is it essential or not essential that the United States continue to be a world leader in space exploration?*

|  |  |
| --- | --- |
| *Jun 15-19 2011* |  |
| *58* | *Essential* |
| *38* | *Not essential* |
| *4* | *Don’t know/Refused* ***(VOL.)*** |
|  |  |

**NO SPACE 7 AND SPACE 8**

**ASK ALL:**

SPACE9 How much, if anything, have you heard or read about private companies, such as SpaceX, Blue Origin and Virgin Galactic, developing space exploration capabilities?

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 18 | A lot |
| 45 | A little |
| 37 | Nothing at all |
| 0 | No Answer |
|  |  |

**ASK ALL:**

SPACE10 Which statement comes closer to your views — even if neither is exactly right? **[RANDOMIZE OPTIONS]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 65 | It is essential that NASA continue to be involved in space exploration |
| 33 | Private companies will ensure that enough progress is made in space exploration, even without NASA’s involvement |
| 1 | No Answer |
|  |  |

**ASK ALL:**

SPACE11 In the future, private companies expect to allow people to orbit the Earth in a spacecraft. How much, if at all, would you, personally, be interested in doing this?

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 19 | Definitely interested |
| 23 | Probably interested |
| 26 | Probably NOT interested |
| 32 | Definitely NOT interested |
| 0 | No Answer |
|  |  |

**ASK IF DEFINITELY OR PROBABLY INTERESTED IN ORBITING EARTH IN A SPACECRAFT (SPACE11=1,2) [N=1,011]:**

SPACE12 What is the MAIN REASON you would be interested in orbiting the Earth in a spacecraft? **[RANDOMIZE OPTIONS 1-3 WITH 4 ALWAYS LAST]**

**Based on those definitely or probably interested in orbiting Earth in a spacecraft**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 29 | To see the view of Earth from space |
| 20 | To learn more about the world |
| 45 | To experience something unique |
| 5 | Something else **[SPECIFY]** |
| 2 | All of the above |
| 3 | Other |
| 1 | No Answer |
|  |  |

**ASK IF PROBABLY NOT OR DEFINITELY NOT INTERESTED IN ORBITING EARTH IN A SPACECRAFT (SPACE11=3,4) [N=1,520]:**

SPACE13 What is the MAIN REASON you would NOT be interested in orbiting the Earth in a spacecraft? **[RANDOMIZE OPTIONS 1-3 WITH 4 ALWAYS LAST]**

**Based on those probably not or definitely not interested in orbiting Earth in a spacecraft**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 28 | It would be too expensive |
| 28 | It would be too scary |
| 28 | My age or health would not allow this |
| 16 | Something else **[SPECIFY]** |
| 8 | Not interested, no reason to go |
| 1 | All of the above |
| 7 | Other |
| 0 | No Answer |
|  |  |

**ASK ALL:**

**SPACE14** How much confidence, if any, do you have that private companies developing space exploration capabilities will… **[RANDOMIZE ITEMS]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | A great deal of confidence | A fair amount of confidence | Not too much confidence | No confidence at all | No Answer |
| a. Build rockets and spacecraft that are safe and reliable |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 26 | 51 | 17 | 5 | 1 |
|  |  |  |  |  |  |
| b. Minimize the debris from rockets, satellites and other human-made objects in the Earth’s orbit |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 13 | 35 | 38 | 13 | 1 |
|  |  |  |  |  |  |
| c. Control costs for developing rockets and spacecraft |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 24 | 41 | 26 | 9 | 1 |
|  |  |  |  |  |  |
| d. Conduct basic scientific research to increase knowledge and understanding of space |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 23 | 47 | 22 | 7 | 1 |
|  |  |  |  |  |  |
| e. Make a profit for their companies |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 44 | 36 | 14 | 4 | 1 |
|  |  |  |  |  |  |

**ASK ALL:**

**LOCAL** On another topic…

How much, if at all, is each of the following a problem in YOUR LOCAL COMMUNITY? **[RANDOMIZE ITEMS]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Big problem  in my  local community | Small problem in my  local community | Not a problem in my  local community | No Answer |
| d. Air pollution |  |  |  |  |
| Mar 27-Apr 9, 2018 | 23 | 44 | 32 | 1 |
| May 10-Jun 6, 2016 | 19 | 44 | 36 | 1 |
|  |  |  |  |  |
| e. Water pollution of lakes, rivers and streams |  |  |  |  |
| Mar 27-Apr 9, 2018 | 28 | 47 | 24 | 1 |
| May 10-Jun 6, 2016 | 23 | 43 | 33 | 1 |
|  |  |  |  |  |
| f. Too much land development |  |  |  |  |
| Mar 27-Apr 9, 2018 | 32 | 35 | 32 | 1 |
| May 10-Jun 6, 2016 | 29 | 37 | 34 | 1 |
|  |  |  |  |  |

**ASK ALL:**

ENV1 Compared with twenty years ago, do you think the U.S. is producing…

|  |  |  |
| --- | --- | --- |
| Mar 27-  Apr 9  2018 |  | May 10-  June 6  2016 |
| 76 | More energy today | 72 |
| 10 | Less energy today | 10 |
| 14 | About the same amount of energy today | 17 |
| 1 | No Answer | 1 |
|  |  |  |

**ASK ALL:**

ENV2 Do you favor or oppose EXPANDING each of the following sources of energy in our country? **[RANDOMIZE ITEMS]**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Favor | Oppose | No Answer |
| a. More offshore oil and gas drilling in U.S. waters |  |  |  |
| Mar 27-Apr 9, 2018 | 39 | 60 | 1 |
| May 10-Jun 6, 2016 | 45 | 52 | 3 |
|  |  |  |  |
| b. More nuclear power plants to generate electricity |  |  |  |
| Mar 27-Apr 9, 2018 | 44 | 54 | 2 |
| May 10-Jun 6, 2016 | 43 | 54 | 3 |
|  |  |  |  |
| c. More coal mining |  |  |  |
| Mar 27-Apr 9, 2018 | 37 | 61 | 2 |
| May 10-Jun 6, 2016 | 41 | 57 | 3 |
| **ENV2 CONTINUED…** |  |  |  |
|  | Favor | Oppose | No Answer |
| d. More solar panel “farms” |  |  |  |
| Mar 27-Apr 9, 2018 | 89 | 10 | 1 |
| May 10-Jun 6, 2016 | 89 | 9 | 2 |
|  |  |  |  |
| e. More hydraulic fracturing, sometimes called “fracking,” for oil and natural gas |  |  |  |
| Mar 27-Apr 9, 2018 | 39 | 58 | 2 |
| May 10-Jun 6, 2016 | 42 | 53 | 5 |
|  |  |  |  |
| f. More wind turbine “farms” |  |  |  |
| Mar 27-Apr 9, 2018 | 85 | 13 | 2 |
| May 10-Jun 6, 2016 | 83 | 14 | 3 |
|  |  |  |  |

**NO ENVIR3**

**ASK ALL:**

ENVIR4 How would you rate each of the following priorities for America’s energy policies? **[RANDOMIZE ITEMS]**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Should be a top priority | Should be an important but lower priority | Should not be too important | Should  not be done | No Answer |
| a. Reducing our dependence on foreign energy sources |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 69 | 24 | 5 | 1 | 1 |
|  |  |  |  |  |  |
| b. Creating jobs within the energy sector |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 58 | 33 | 8 | 1 | 1 |
|  |  |  |  |  |  |
| c. Protecting the environment from the effects of energy development and use |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 72 | 24 | 3 | 1 | 1 |
|  |  |  |  |  |  |
| d. Keeping consumer energy prices low |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 66 | 30 | 3 | 1 | 1 |
|  |  |  |  |  |  |
| e. Increasing reliance on renewable energy sources |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 71 | 24 | 4 | 1 | 1 |
|  |  |  |  |  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: Right now, how would you rate each of the following priorities for America’s energy policies? First, do you think* ***[INSERT ITEM; RANDOMIZE]*** *should be a top priority, important but lower priority, not too important, or should it not be done?* ***[NEXT ITEM]****?* ***[IF NECESSARY:*** *Do you think* ***[ITEM]*** *should be a top priority for America’s energy policies, important but lower priority, not too important, or should it not be done?*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | *Top priority* | *Important but lower priority* | *Not too important* | *Should*  *not be done* | *DK/Ref.* ***(VOL).*** |
| *a. Reducing our dependence on foreign energy sources* |  |  |  |  |  |
| *May 3-7, 2017* | *48* | *32* | *10* | *6* | *4* |
|  |  |  |  |  |  |
| *b. Creating jobs within the energy sector* |  |  |  |  |  |
| *May 3-7, 2017* | *49* | *36* | *7* | *3* | *5* |
|  |  |  |  |  |  |
| *c. Protecting the environment from the effects of energy development and use* |  |  |  |  |  |
| *May 3-7, 2017* | *53* | *33* | *8* | *3* | *3* |
|  |  |  |  |  |  |
| *d. Keeping consumer energy prices low* |  |  |  |  |  |
| *May 3-7, 2017* | *49* | *39* | *6* | *3* | *1* |
|  |  |  |  |  |  |
| *e. Increasing reliance on renewable energy sources* |  |  |  |  |  |
| *May 3-7, 2017* | *52* | *32* | *9* | *3* | *4* |

**NO ENVIR5**

**ASK ALL:**

ENVIR6 Which of these statements comes closest to your own view about the MOST EFFECTIVE WAY to increase reliance on renewable energy sources, even if neither is exactly right? **[RANDOMIZE OPTIONS]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 56 | Government regulations are necessary to encourage businesses and consumers to rely more on renewable energy sources |
| 42 | The private marketplace will ensure that businesses and consumers rely more on renewable energy sources, even without government regulations |
| 1 | No Answer |
|  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: Which of these statements come closest to your own view about the MOST EFFECTIVE WAY to increase reliance on renewable energy sources, even if neither is exactly right?* ***[READ AND RANDOMIZE RESPONSE OPTIONS 1 AND 2]***

|  |  |
| --- | --- |
| *May 3-7*  *2017* |  |
| *54* | *Government regulations are necessary to encourage businesses and consumers to rely more on renewable energy sources* |
| *38* | *The private marketplace will ensure that businesses and consumers rely more on renewable energy sources, even without government regulations* |
| *8* | *No answer* |
|  |  |

**ASK ALL:**

ENVIR7 Do you think it is possible or not possible to cut back on environmental regulations and still effectively protect air and water quality in the U.S.?

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 52 | Yes, it is possible |
| 48 | No, it is NOT possible |
| 1 | No Answer |
|  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: Do you think it is possible to cut back on environmental regulations and still effectively protect air and water quality in the U.S. or do you think it’s not possible to do this with fewer regulations?*

|  |  |
| --- | --- |
| *May 3-7*  *2017* |  |
| *49* | *Yes, possible to cut back on environmental regulations and still effectively protect air and water quality* |
| *47* | *No, not possible to do this with fewer regulations* |
| *4* | *No answer* |
|  |  |

**ASK ALL:**

ENVIR8 How much do you think the federal government is doing to…

**[RANDOMIZE ITEMS]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Too much | Too little | About the  right amount | No Answer |
| a. Protect air quality |  |  |  |  |
| Mar 27-Apr 9, 2018 | 8 | 64 | 27 | 1 |
|  |  |  |  |  |
| b. Protect water quality of lakes, rivers and streams |  |  |  |  |
| Mar 27-Apr 9, 2018 | 6 | 69 | 24 | 1 |
|  |  |  |  |  |
| c. Protect animals and their habitats |  |  |  |  |
| Mar 27-Apr 9, 2018 | 9 | 63 | 27 | 1 |
|  |  |  |  |  |
| d. Protect open lands in national parks and nature preserves |  |  |  |  |
| Mar 27-Apr 9, 2018 | 8 | 57 | 34 | 1 |
|  |  |  |  |  |
| e. Reduce the effects of global climate change |  |  |  |  |
| Mar 27-Apr 9, 2018 | 13 | 67 | 19 | 1 |
|  |  |  |  |  |

**ASK FORM=1 [N=1,283]:**

On the topic of climate change…

CLIM1A Which of these three statements about the Earth’s temperature comes closest to your view? **[RANDOMIZE OPTIONS 1 AND 2; KEEP 3 AND 8 LAST]**

|  |  |  |
| --- | --- | --- |
| Mar 27-  Apr 9  2018 |  | May 10-  June 6  2016 |
| 47 | The Earth is getting warmer mostly because of human activity such as burning fossil fuels | 45 |
| 24 | The Earth is getting warmer mostly because of  natural patterns in the Earth’s environment | 26 |
| 13 | There is no solid evidence that the Earth is getting warmer | 14 |
| 14 | Not sure | 14 |
| 1 | No Answer | 1 |
|  |  |  |

**ASK IF NOT SURE OR NO ANSWER (CLIM1A=8,99) [N=170]:**

CLIM1B Even if you are not sure, which one of these three statements about the Earth’s temperature comes closest to your view? **[SAME ORDER AS CLIM1A]**

**Based on those who are not sure or did not answer CLIM1A:**

|  |  |  |
| --- | --- | --- |
| Mar 27-  Apr 9  2018 |  | May 10-  June 6  2016 |
| 35 | The Earth is getting warmer mostly because of human activity such as burning fossil fuels | 20 |
| 34 | The Earth is getting warmer mostly because of  natural patterns in the Earth’s environment | 29 |
| 25 | There is no solid evidence that the Earth is getting warmer | 41 |
| 6 | No Answer | 10 |
|  |  |  |

**COMBINED RESPONSES CLIM1A AND CLIM1B [N=1,283]:**

|  |  |  |
| --- | --- | --- |
| Mar 27-  Apr 9  2018 |  | May 10-  June 6  2016 |
| 53 | The Earth is getting warmer mostly because of human activity such as burning fossil fuels | 48 |
| 29 | The Earth is getting warmer mostly because of natural patterns in the Earth’s environment | 31 |
| 17 | There is no solid evidence that the Earth is getting warmer | 20 |
| 1 | No Answer | 2 |
|  |  |  |

**ASK FORM=2 [N=1,258]:**

On the topic of climate change…

CLIM2A From what you have heard or read, which of these three statements about the Earth’s temperature comes closest to WHAT MOST CLIMATE SCIENTISTS SAY? **[RANDOMIZE OPTIONS 1 AND 2; KEEP 3 AND 8 LAST]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 61 | The Earth is getting warmer mostly because of human activity such as burning fossil fuels |
| 14 | The Earth is getting warmer mostly because of natural patterns in the Earth’s environment |
| 11 | There is no solid evidence that the Earth is getting warmer |
| 12 | Not sure |
| 1 | No Answer |
|  |  |

**ASK IF NOT SURE OR NO ANSWER (CLIM2A=8,99) [N=144]:**

CLIM2B Even if you are not sure, which one of these three statements about the Earth’s temperature comes closest to WHAT MOST CLIMATE SCIENTISTS SAY? **[SAME ORDER AS CLIM2A]**

**Based on those who are not sure or did not answer CLIM2A:**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 35 | The Earth is getting warmer mostly because of human activity such as burning fossil fuels |
| 23 | The Earth is getting warmer mostly because of natural patterns in the Earth’s environment |
| 36 | There is no solid evidence that the Earth is getting warmer |
| 6 | No Answer |
|  |  |

**COMBINED RESPONSES CLIM2A AND CLIM2B [N=1,258]:**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 66 | The Earth is getting warmer mostly because of human activity such as burning fossil fuels |
| 17 | The Earth is getting warmer mostly because of natural patterns in the Earth’s environment |
| 16 | There is no solid evidence that the Earth is getting warmer |
| 1 | No Answer |
|  |  |

**ASK ALL:**

CLIM3 **[ASK IF SAY WARMING IS OCCURRING CLIM1A=1,2 OR CLIM1B=1,2 OR FORM=2]** From what you have heard or read, do you think it is…

**[ASK GLOBAL WARMING IS NOT OCCURRING IF CLIM1A OR CLIM1B=3 OR NO ANSWER TO CLIM1B CLIM1B=99]** From what you have heard or read, do you think it would be…

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 68 | Possible to reduce the effects of global climate change |
| 31 | NOT possible to reduce the effects of global climate change |
| 2 | No Answer |
|  |  |

***TREND FOR COMPARISON***

*Pew Research Center survey conducted by telephone: Do you think it is possible to reduce the effects of global warming, or not?[[4]](#footnote-4)*

*Based on those who said there is solid evidence the average temperature on Earth has been getting warmer over the last few decades*

|  |  |  |  |
| --- | --- | --- | --- |
|  | Yes, possible | No, not possible | Don’t know/ Refused **(VOL.)** |
| Oct. 9-13, 2013 | 74 | 23 | 3 |
| April 2008 | 74 | 19 | 7 |
| June 2006 | 67 | 22 | 11 |

**ASK ALL:**

ENV21 How much do you, personally, care about the issue of global climate change?

|  |  |  |
| --- | --- | --- |
| Mar 27-  Apr 9  2018 |  | May 10-  June 6  2016 |
| 44 | A great deal | 36 |
| 33 | Some | 38 |
| 15 | Not too much | 18 |
| 7 | Not at all | 8 |
| 1 | No Answer | 1 |
|  |  |  |

**NO CLIM4**

**RANDOMIZE ORDER OF CLIM5 AND CLIM6**

**ASK ALL:**

CLIM5 Do you think policies aimed at reducing the effects of global climate change generally… **[RANDOMIZE OPTIONS 1 AND 2 IN SAME ORDER AS CLIM6]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 30 | Help the U.S. economy |
| 31 | Hurt the U.S. economy |
| 36 | Make no difference for the U.S. economy |
| 2 | No Answer |
|  |  |

**ASK ALL:**

CLIM6 Do you think policies aimed at reducing the effects of global climate change generally… **[RANDOMIZE OPTIONS 1 AND 2 IN SAME ORDER AS CLIM5]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 49 | Do more GOOD than harm for the environment |
| 19 | Do more HARM than good for the environment |
| 30 | Make no difference for the environment |
| 2 | No Answer |
|  |  |

**ASK ALL:**

CLIM7 Do you think the following would make a difference or not in reducing the effects of global climate change? **[RANDOMIZE ITEMS][[5]](#footnote-5)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Make  a difference | Not make  a difference | No Answer |
| a. Restrictions on power plant carbon emissions |  |  |  |
| Mar 27-Apr 9, 2018 | 79 | 20 | 1 |
|  |  |  |  |
| b. Tougher fuel-efficiency standards for automobiles and trucks |  |  |  |
| Mar 27-Apr 9, 2018 | 71 | 27 | 1 |
|  |  |  |  |
| c. Tax incentives to encourage businesses to reduce their carbon emissions |  |  |  |
| Mar 27-Apr 9, 2018 | 76 | 23 | 1 |
|  |  |  |  |
| d. Tax incentives for people to drive hybrid and electric automobiles |  |  |  |
| Mar 27-Apr 9, 2018 | 61 | 38 | 1 |
|  |  |  |  |

**ASK IF MORE THAN ONE RESPONSE MAKE A DIFFERENCE ON CLIM7A-D=1 AND DISPLAY ONLY THOSE ITEMS [N=2,245]:**

CLIM7BIG Which ONE of the following proposals do you think would make the BIGGEST DIFFERENCE in reducing the effects of global climate change? **[RANDOMIZE OPTIONS IN SAME ORDER AS CLIM7]**

**[PROGRAMMING NOTE: IF ONLY ONE ITEM CLIM7A-D=1, AUTO-PUNCH CLIM7BIG WITH THAT RESPONSE AND DO NOT DISPLAY]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 34 | Restrictions on power plant carbon emissions |
| 23 | Tougher fuel-efficiency standards for automobiles and trucks |
| 32 | Tax incentives to encourage businesses to reduce their carbon emissions |
| 11 | Tax incentives for people to drive hybrid and electric automobiles |
| 1 | No Answer |
|  |  |

**COMBINED RESPONSES CLIM7 AND CLIM7BIG**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Make a difference - Biggest difference | Make a difference - not biggest | Not make a difference | No Answer |
| Restrictions on power plant carbon emissions | 29 | 49 | 20 | 1 |
| Tougher fuel-efficiency standards for automobiles and trucks | 20 | 52 | 27 | 1 |
| Tax incentives to encourage businesses to reduce their carbon emissions | 28 | 48 | 23 | 1 |
| Tax incentives for people to drive hybrid and electric automobiles | 10 | 52 | 38 | 1 |
|  |  |  |  |  |

**ASK ALL:**

CLIM8 One proposal to reduce the effects of global climate change would use solar geoengineering techniques — for example, spreading particles in the atmosphere to reflect sunlight and thereby lower the Earth’s temperature.

a. Do you think using these techniques would…

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 45 | Make a difference in reducing the effects of global climate change |
| 52 | Not make a difference in reducing the effects of global climate change |
| 3 | No Answer |
|  |  |

**CLIM8 continued…**

b. Beyond the potential of these solar geoengineering techniques to reduce the effects of global climate change, overall, do you think using these techniques would… **[RANDOMIZE OPTIONS 1 AND 2]**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 30 | Do more GOOD than harm for the environment |
| 45 | Do more HARM than good for the environment |
| 22 | Make no difference for the environment |
| 3 | No Answer |
|  |  |

**ASK ALL:**

CLIM9 How much, if at all, do you think global climate change is currently affecting…

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | A great deal | Some | Not too much | Not at all | No Answer |
| a. The United States |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 40 | 35 | 16 | 8 | 0 |
|  |  |  |  |  |  |
| b. Your local community |  |  |  |  |  |
| Mar 27-Apr 9, 2018 | 22 | 37 | 25 | 15 | 0 |
|  |  |  |  |  |  |

**ASK IF LOCAL COMMUNITY AFFECTED A GREAT DEAL OR SOME (CLIM9b=1,2) [N=1,510]:**

CLIM10 What is the MAIN way that global climate change is currently affecting your local community?

**Based on those who say global climate change is currently affecting their local community a great deal or some**

|  |  |
| --- | --- |
| Mar 27– Apr 9  2017 |  |
| 45 | Weather and temperature changes NET |
| 18 | *Changes in weather patterns and seasons* |
| 15 | *Temperature changes* |
| 12 | *Extreme/severe storms and weather* |
| 5 | *Droughts* |
| 4 | *Floods* |
| 4 | *Less snow and rain* |
| 2 | *Wild fires* |
| 12 | Damage to plants, animals and land NET |
| 6 | *Damage to plants and agriculture* |
| 3 | *Rising water level and erosion* |
| 2 | *Negative effects on rivers, streams and oceans* |
| 2 | *Negative effects on animals and animal behavior* |
| 6 | Effects on human health and infrastructure NET |
| 2 | *Causing health issues/allergies* |
| 2 | *Destructive to infrastructure and property* |
| 1 | *Negative effect on local economy* |
| 1 | *Shortages of resources and jobs* |
| 3 | Effects on energy consumption and renewable energy NET |
| 2 | *Increased energy use and cost* |
| 1 | *Energy (other)* |
| 4 | Air, water and land pollution |
| 4 | Things people see that contribute to climate change NET |
| 3 | *Specific actions causing pollution in their community* |
| 1 | *Too many people driving cars* |
| 0 | *People continuing to pollute, not caring* |
| 3 | General negative effect |
| 2 | Other |
| 1 | Do not see effects in local community |
| 33 | Don’t know/Refused |

**ASK IF LOCAL COMMUNITY AFFECTED A GREAT DEAL OR SOME (CLIM9b=1,2) [N=1,510]:**

CLIM11 Would you say the effects of global climate change in your local community are impacting you, personally, or not?

**Based on those who say their local community is affected a great deal or some**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 52 | Yes, the effects are impacting me personally |
| 47 | No, the effects are NOT impacting me personally |
| 2 | No Answer |
|  |  |

**COMBINED RESPONSES CLIM9B AND CLIM11**

|  |  |
| --- | --- |
| Mar 27-  Apr 9  2018 |  |
| 59 | Local community affected a great deal or some |
| 31 | Yes, the effects are impacting me personally |
| 28 | No, the effects are NOT impacting me personally |
| 1 | No Answer |
| 40 | Local community affected not too much or not at all |
| 0 | No answer |

1. A [2014 Pew Research Center telephone survey](http://www.pewinternet.org/2014/04/17/us-views-of-technology-and-the-future/) asked “How likely to do you think it is that humans will build colonies on another planet that can be lived in for long periods” in the next 50 years? 5% said this will definitely happen, 28% said this will probably happen, 39% said this will probably not happen, 25% said this will definitely not happen, and 3% did not know. [↑](#footnote-ref-1)
2. A [2013 Pew Research Center telephone survey](http://www.pewforum.org/2013/08/06/living-to-120-and-beyond-americans-views-on-aging-medical-advances-and-radical-life-extension/) asked, “How likely you think it is that the average person in the U.S. will live to be at least 120 years old in about the next 40 years?”, rather than “in the next 50 years”. In the 2013 Pew Research Center survey, 3% said this will definitely happen, 22% said this will probably happen, 52% said this will probably not happen, 21% said this will definitely not happen, and 1% did not know or refused. [↑](#footnote-ref-2)
3. In 2016, the question asked about “the genes of embryos”, rather than “the genes of an embryo”. [↑](#footnote-ref-3)
4. This question was asked following these two questions. First, respondents were asked “From what you have read and heard, is there solid evidence that the average temperature on Earth has been getting warmer over the past few decades, or not”. Second, respondents were asked, “Do you think the earth is getting warmer mostly because of human activity such as burning fossil fuels OR mostly because of natural patterns in the Earth’s environment?” [↑](#footnote-ref-4)
5. Items a and b were used in a question in [a 2016 Pew Research Center survey](http://www.pewinternet.org/2016/10/04/the-politics-of-climate/). The 2016 Pew Research Center survey asked, “Thinking about the following proposals to address global climate change, how much difference, if any, do you think each can make? A big difference, a small difference, almost no difference”. [↑](#footnote-ref-5)