



# IPSOS / REUTERS POLL DATA

Prepared by Ipsos Public Affairs

## Ipsos Poll Conducted for Reuters

*Climate Change/Paris Accords Poll 6.05.2017*

These are findings from an Ipsos poll conducted June 2-4, 2017 on behalf Thomson Reuters. For the survey, a sample of roughly 1,685 adults age 18+ from the continental U.S., Alaska and Hawaii was interviewed online in English. The sample includes 780 Democrats, 551 Republicans, and 202 Independents.

The sample for this study was randomly drawn from Ipsos's online panel (see link below for more info on "Access Panels and Recruitment"), partner online panel sources, and "river" sampling (see link below for more info on the Ipsos "Ampario Overview" sample method) and does not rely on a population frame in the traditional sense. Ipsos uses fixed sample targets, unique to each study, in drawing sample. After a sample has been obtained from the Ipsos panel, Ipsos calibrates respondent characteristics to be representative of the U.S. Population using standard procedures such as raking-ratio adjustments. The source of these population targets is U.S. Census 2013 American Community Survey data. The sample drawn for this study reflects fixed sample targets on demographics. Post-hoc weights were made to the population characteristics on gender, age, race/ethnicity, region, and education.

Statistical margins of error are not applicable to online polls. All sample surveys and polls may be subject to other sources of error, including, but not limited to coverage error and measurement error. Where figures do not sum to 100, this is due to the effects of rounding. The precision of Ipsos online polls is measured using a credibility interval. In this case, the poll has a credibility interval of plus or minus 2.7 percentage points for all respondents. Ipsos calculates a design effect (DEFF) for each study based on the variation of the weights, following the formula of Kish (1965). This study had a credibility interval adjusted for design effect of the following (n=1,685, DEFF=1.5, adjusted Confidence Interval=4.2).

The poll also has a credibility interval plus or minus 4.0 percentage points for Democrats, plus or minus 4.8 percentage points for Republicans, and plus or minus 7.9 percentage points for Independents.

For more information about conducting research intended for public release or Ipsos' online polling methodology, please visit our [Public Opinion Polling and Communication](#) page where you can download our brochure, see our public release protocol, or contact us.

		<u>Total</u>	<u>Democrat</u>	<u>Republican</u>	<u>Independent</u>
AB10_261 - Awareness...News reports that say President Trump plans to withdraw the United States from the Paris climate deal, a multicity framework with the goal of limiting global warming	Yes	81%	82%	87%	83%
	No	19%	18%	13%	17%
	Total	1695	780	551	202
TM1220Y17 - Which country releases the most carbon emissions per person?	United States	38%	47%	26%	37%
	China	48%	43%	57%	47%
	Canada	0%	0%	1%	0%
	Russia	3%	2%	3%	4%
	Japan	5%	3%	6%	5%
	Germany	1%	1%	0%	2%
	Britain	0%	0%	1%	0%
	France	1%	0%	0%	2%
	Mexico	2%	2%	2%	2%
	Brazil	0%	0%	1%	0%
	India	2%	2%	3%	1%
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TM1221Y17 - To what extent do you agree or disagree that given the amount of greenhouse gasses that it produces, the United States should take aggressive action to slow global warming?	Strongly agree	46%	67%	25%	53%
	Somewhat agree	26%	20%	34%	24%
	Somewhat disagree	10%	4%	18%	10%
	Strongly disagree	8%	3%	14%	7%
	Don't know	10%	6%	9%	6%
	Total	1695	780	551	202
TM1222Y17 - In your opinion, who is best able to protect the environment?	The President	13%	13%	14%	11%
	Congress	14%	16%	12%	19%
	States	23%	20%	27%	20%
	The business community	18%	14%	26%	17%
	Environmental activists	14%	19%	7%	18%
	Hollywood	1%	1%	0%	2%
Don't Know	18%	16%	14%	14%	
Total	1695	780	551	202	
TM747Y15 - Generally speaking, which of these sentiments is closer to your point of view?	Reducing global warming will hurt jobs and the economy	14%	7%	26%	10%
	Clean energy will create new jobs and growth	70%	83%	55%	79%
	Don't know	16%	10%	18%	11%
	Total	1695	780	551	202
TM763Y15 - Do you approve of the United States working with other countries to limit global warming?	Yes	73%	87%	61%	75%
	No	10%	3%	20%	8%
	Unsure	17%	11%	18%	17%
	Total	1695	780	551	202
TM746Y15_1 - Do you agree or disagree with each of the following statement...The United States should lead the global fight against climate change	Strongly agree	39%	58%	18%	44%
	Somewhat agree	29%	26%	33%	31%
	Somewhat disagree	14%	7%	25%	9%
	Strongly disagree	8%	2%	18%	7%
	Unsure	10%	7%	6%	9%
	Total	1695	780	551	202
TM746Y15_2 - Do you agree or disagree with each of the following statement...The U.S. should support the creation of a \$100 billion internationally managed fund to help developing countries adapt to climate change	Strongly agree	20%	32%	8%	20%
	Somewhat agree	28%	36%	23%	27%
	Somewhat disagree	20%	13%	27%	16%
	Strongly disagree	19%	6%	33%	22%
	Unsure	14%	13%	9%	15%
Total	1695	780	551	202	
TM746Y15_3 - Do you agree or disagree with each of the following statement...The U.S. should follow through on a \$3 billion pledge to help developing countries adapt to climate change	Strongly agree	23%	36%	10%	23%
	Somewhat agree	24%	33%	17%	24%
	Somewhat disagree	20%	13%	30%	16%
	Strongly disagree	19%	6%	34%	21%
	Unsure	14%	12%	9%	16%
	Total	1695	780	551	202
TM746Y15_4 - Do you agree or disagree with each of the following	Strongly agree	13%	18%	8%	19%
	Somewhat agree	28%	37%	22%	28%



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statement...I believe that China will keep its stated promise to lower carbon emissions by 2030	Somewhat disagree	23%	21%	28%	15%
	Strongly disagree	17%	6%	29%	21%
	Unsure	18%	18%	13%	18%
	Total	1695	780	551	202
TM1223Y17 - To what extent do you approve or disapprove of the United States deciding to stay out of the Paris climate agreement?	Strongly agree	18%	7%	35%	16%
	Somewhat agree	21%	10%	35%	20%
	Somewhat disagree	15%	18%	10%	15%
	Strongly disagree	32%	53%	9%	36%
	Don't know	15%	12%	10%	12%
Total	1695	780	551	202	
TM1224Y17 - Opposers say it would have hurt U.S. economy, supporters say necessary to fight climate change/maintain U.S. leadership on the issue. Extent approve/disapprove of the U.S. deciding to stay out of the Paris climate agreement?	Strongly agree	17%	6%	35%	14%
	Somewhat agree	20%	11%	34%	19%
	Somewhat disagree	16%	18%	15%	14%
	Strongly disagree	33%	54%	9%	43%
	Don't know	13%	11%	7%	10%
Total	1695	780	551	202	
TM1225Y17_1 - To what extent do you believe that the following outcome is likely or unlikely due to the US withdrawing from the Paris climate agreement... Global temperatures will rise faster? <i>*Added midday on June 2nd</i>	Very likely	23%	37%	9%	25%
	Somewhat likely	27%	37%	16%	27%
	Not very likely	19%	10%	29%	22%
	Not at all likely	17%	4%	33%	14%
	Don't know	15%	12%	11%	13%
Total	1398	635	459	172	
TM1225Y17_2 - To what extent do you believe that the following outcome is likely or unlikely due to the US withdrawing from the Paris climate agreement... US relations with other countries will suffer? <i>*Added midday on June 2nd</i>	Very likely	35%	55%	14%	38%
	Somewhat likely	29%	28%	31%	33%
	Not very likely	17%	7%	34%	15%
	Not at all likely	8%	2%	13%	7%
	Don't know	11%	8%	8%	7%
Total	1398	635	459	172	
TM1225Y17_3 - To what extent do you believe that the following outcome is likely or unlikely due to the US withdrawing from the Paris climate agreement... The US economy will be stronger? <i>*Added midday on June 2nd</i>	Very likely	16%	7%	31%	11%
	Somewhat likely	25%	14%	40%	20%
	Not very likely	24%	35%	12%	32%
	Not at all likely	20%	32%	6%	23%
	Don't know	15%	13%	12%	15%
Total	1398	635	459	172	
TM1225Y17_4 - To what extent do you believe that the following outcome is likely or unlikely due to the US withdrawing from the Paris climate agreement... The US will be able to negotiate a better climate agreement with other countries? <i>*Added midday on June 2nd</i>	Very likely	15%	10%	24%	13%
	Somewhat likely	22%	11%	35%	22%
	Not very likely	24%	30%	18%	27%
	Not at all likely	24%	37%	9%	27%
	Don't know	15%	11%	14%	11%
Total	1398	635	459	172	
TM1225Y17_5 - To what extent do you believe that the following outcome is likely or unlikely due to	Very likely	37%	59%	17%	40%
	Somewhat likely	26%	19%	33%	30%
	Not very likely	16%	11%	25%	13%



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the US withdrawing from the Paris climate agreement... The US will not be seen as a leader on global issues?	Not at all likely	11%	4%	17%	11%
	Don't know	10%	7%	9%	6%
	Total	1398	635	459	172

\*Added midday on June 2nd

TM514Y15_1 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Islam...pose to the United States?	No threat 1	19%	27%	10%	24%
	2	13%	17%	9%	10%
	3	16%	18%	17%	11%
	4	16%	14%	19%	21%
	Imminent threat 5	25%	15%	39%	26%
	Total	1695	780	551	202

TM514Y15_2 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Judaism...pose to the United States?	No threat 1	49%	50%	52%	53%
	2	13%	13%	14%	9%
	3	12%	11%	15%	10%
	4	7%	8%	6%	8%
	Imminent threat 5	5%	6%	4%	7%
	Total	1695	780	551	202

TM514Y15_3 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Christianity...pose to the United States?	No threat 1	51%	44%	65%	49%
	2	13%	15%	11%	15%
	3	11%	13%	10%	9%
	4	9%	13%	6%	11%
	Imminent threat 5	8%	9%	5%	8%
	Total	1695	780	551	202

TM514Y15_4 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Atheism...pose to the United States?	No threat 1	41%	48%	33%	48%
	2	13%	11%	16%	9%
	3	14%	14%	15%	12%
	4	9%	9%	11%	10%
	Imminent threat 5	11%	7%	16%	9%
	Total	1695	780	551	202

TM514Y15_5 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Illegal immigration...pose to the United States?	No threat 1	9%	15%	3%	7%
	2	18%	28%	7%	20%
	3	21%	23%	20%	22%
	4	19%	13%	26%	21%
	Imminent threat 5	26%	14%	42%	23%
	Total	1695	780	551	202

TM514Y15_6 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Drug trafficking...pose to the United States?	No threat 1	2%	2%	2%	2%
	2	8%	9%	6%	11%
	3	19%	21%	16%	18%
	4	26%	28%	28%	25%
	Imminent threat 5	39%	34%	45%	39%
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TM514Y15_7 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...WMD proliferation...pose to the United States?	No threat 1	6%	5%	6%	8%
	2	9%	7%	11%	11%
	3	20%	24%	20%	16%
	4	18%	18%	19%	21%
	Imminent threat 5	15%	15%	17%	13%
	Not sure	32%	30%	28%	31%
Total	1695	780	551	202	
TM514Y15_8 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Cyber attacks and espionage...pose to the United States?	No threat 1	2%	1%	2%	1%
	2	5%	4%	4%	4%
	3	14%	14%	13%	14%
	4	26%	28%	30%	24%
	Imminent threat 5	46%	45%	48%	49%
	Not sure	7%	7%	4%	7%
Total	1695	780	551	202	
TM514Y15_9 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Racism and bigotry...pose to the United States?	No threat 1	6%	3%	9%	9%
	2	9%	6%	16%	6%
	3	17%	11%	23%	17%
	4	26%	27%	26%	26%
	Imminent threat 5	35%	47%	22%	39%
	Not sure	6%	6%	4%	4%
Total	1695	780	551	202	
TM514Y15_10 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Sexism...pose to the United States?	No threat 1	17%	13%	22%	19%
	2	16%	11%	23%	12%
	3	24%	24%	26%	23%
	4	17%	20%	14%	21%
	Imminent threat 5	17%	23%	10%	19%
	Not sure	9%	9%	5%	6%
Total	1695	780	551	202	
TM514Y15_11 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Global warming/climate change...pose to the United States?	No threat 1	10%	2%	20%	9%
	2	12%	6%	21%	8%
	3	19%	14%	28%	16%
	4	23%	28%	15%	25%
	Imminent threat 5	29%	43%	12%	37%
	Not sure	8%	6%	4%	5%
Total	1695	780	551	202	
TM514Y15_12 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Terrorism...pose to the United States?	No threat 1	2%	1%	1%	1%
	2	4%	5%	2%	3%
	3	10%	12%	7%	14%
	4	20%	25%	17%	22%
	Imminent threat 5	59%	51%	69%	57%
	Not sure	6%	6%	3%	3%
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	No threat 1	3%	2%	3%	4%



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TM514Y15_13 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Organized crime...pose to the United States?	2	10%	11%	9%	13%
	3	25%	28%	25%	24%
	4	27%	28%	30%	24%
	Imminent threat 5	27%	26%	29%	28%
	Not sure	7%	6%	4%	7%
	Total	1695	780	551	202
TM514Y15_14 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...the Collapse of nation states...pose to the United States?	No threat 1	11%	9%	14%	11%
	2	12%	9%	17%	11%
	3	24%	24%	26%	24%
	4	19%	24%	14%	22%
	Imminent threat 5	16%	16%	14%	15%
	Not sure	18%	18%	15%	17%
Total	1695	780	551	202	
TM514Y15_15 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Gay rights...pose to the United States?	No threat 1	44%	55%	33%	50%
	2	14%	10%	18%	13%
	3	13%	10%	18%	10%
	4	9%	9%	11%	9%
	Imminent threat 5	12%	10%	16%	10%
	Not sure	8%	6%	5%	7%
Total	1695	780	551	202	
TM514Y15_16 - On a scale of 1 to 5, with one being no threat and 5 being an imminent threat, how much of a threat does...Women's rights...pose to the United States?	No threat 1	44%	48%	41%	47%
	2	15%	11%	19%	14%
	3	15%	13%	20%	15%
	4	10%	11%	11%	10%
	Imminent threat 5	8%	10%	5%	7%
	Not sure	8%	7%	4%	7%
Total	1695	780	551	202	
PV3 - V3 - When you think about the planet and global warming, which of the following comes closest to your personal opinion? The planet has been getting warmer because of...	Natural patterns in the earth's environment	13%	6%	23%	11%
	Mostly natural patterns but some impact from human activity	21%	13%	32%	22%
	Mostly human activity but some natural patterns in the earth's environment	35%	43%	27%	33%
	Human activity such as burning fossil fuels	23%	31%	12%	28%
	Unsure	9%	7%	5%	6%
	Total	1695	780	551	202



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## How to Calculate Bayesian Credibility Intervals

The calculation of credibility intervals assumes that Y has a binomial distribution conditioned on the parameter  $\theta$ , i.e.,  $Y|\theta \sim \text{Bin}(n, \theta)$ , where n is the size of our sample. In this setting, Y counts the number of “yes”, or “1”, observed in the sample, so that the sample mean ( $\bar{y}$ ) is a natural estimate of the true population proportion  $\theta$ . This model is often called the likelihood function, and it is a standard concept in both the Bayesian and the Classical framework. The Bayesian <sup>1</sup> statistics combines both the prior distribution and the likelihood function to create a posterior distribution. The posterior distribution represents our opinion about which are the plausible values for  $\theta$  adjusted after observing the sample data. In reality, the posterior distribution is one’s knowledge base updated using the latest survey information. For the prior and likelihood functions specified here, the posterior distribution is also a beta distribution ( $\pi(\theta/y) \sim \beta(y+a, n-y+b)$ ), but with updated hyper-parameters.

Our credibility interval for  $\vartheta$  is based on this posterior distribution. As mentioned above, these intervals represent our belief about which are the most plausible values for  $\vartheta$  given our updated knowledge base. There are different ways to calculate these intervals based on  $\pi(\theta/y)$ . Since we want only one measure of precision for all variables in the survey, analogous to what is done within the Classical framework, we will compute the largest possible credibility interval for any observed sample. The worst case occurs when we assume that  $a=1$  and  $b=1$  and  $y=n/2$ . Using a simple approximation of the posterior by the normal distribution, the 95% credibility interval is given by, approximately:

$$\bar{y} \pm \frac{1}{\sqrt{n}}$$

For this poll, the Bayesian Credibility Interval was adjusted using standard weighting design effect  $1+L=1.3$  to account for complex weighting<sup>2</sup>

Examples of credibility intervals for different base sizes are below. Ipsos does not publish data for base sizes (sample sizes) below 100.

Sample size	Credibility intervals
2,000	2.5
1,500	2.9
1,000	3.5
750	4.1
500	5.0
350	6.0
200	7.9
100	11.2