



Ipsos Public Affairs Poll

These are findings from an Ipsos poll conducted February 10-12, 2016. For the survey, a sample of roughly 1,005 adults age 18+ from the continental U.S., Alaska and Hawaii was interviewed online in English.

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 2015 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, region, race/ethnicity and income.

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 3.5 percentage points for all respondents (see link below for more info on Ipsos online polling “Credibility Intervals”). 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=1,005, DEFF=1.5, adjusted Confidence Interval=5.0).

For more information about Ipsos online polling methodology, please go here <http://goo.gl/yJBkuf>

		Total
Q1. Thinking ahead to the next Presidential election this year, if the 2016 Republican presidential primaries were being held today, for whom of the following would you vote?(Select one)	Jeb Bush	6%
	Marco Rubio	9%
	Rand Paul	3%
	Ted Cruz	9%
	Benjamin Carson	6%
	Donald Trump	24%
	John Kasich	9%
	Wouldn't vote	34%
Q2. Thinking ahead to the next Presidential election this year, if the 2016 Democratic presidential primaries were being held today, for whom of the following would you vote?(Select one)	Hillary Clinton	28%
	Bernie Sanders	35%
	Wouldn't vote	37%
Q3. If the 2016 presidential election were being held today and the candidates were as below, for whom would you vote?(Select one)	Donald Trump (Republican)	31%
	Hillary Clinton (Democrat)	35%
	Neither / Other	20%
	Wouldn't vote	13%
Q4. Do you agree or disagree with the following statements? ___To fix America, we need a strong leader willing to break the rules	Agree	49%
	Disagree	25%
	Neither/DK	26%
Q4. Do you agree or disagree with the following statements? ___America is no longer the greatest country on earth	Agree	47%
	Disagree	28%



	Neither/DK	25%
Q4. Do you agree or disagree with the following statements?___The American economy is rigged to advantage the rich and powerful	Agree Disagree Neither/DK	66% 14% 20%
Q4. Do you agree or disagree with the following statements?___Traditional parties and politicians don't care about people like me	Agree Disagree Neither/DK	69% 10% 21%
Q4. Do you agree or disagree with the following statements?___The American middle class is dying	Agree Disagree Neither/DK	68% 11% 21%
Q4. Do you agree or disagree with the following statements?___Our children's generation will be worse off than our own	Agree Disagree Neither/DK	64% 11% 25%
Q4. Do you agree or disagree with the following statements?___It is increasingly hard for someone like me to get ahead in America	Agree Disagree Neither/DK	58% 20% 22%
Q4. Do you agree or disagree with the following statements?___Immigrants take jobs away from real Americans	Agree Disagree Neither/DK	40% 38% 22%
Q4. Do you agree or disagree with the following statements?___In America today, the rich are getting richer and the poor are getting poorer	Agree Disagree Neither/DK	68% 11% 20%
Q5. Do you consider yourself a Democrat, a Republican an Independent or none of these?(Select one)	Strong Democrat Moderate Democrat Moderate Republican Strong Republican Independent None of these Don't know / Refused	13% 21% 19% 11% 24% 9% 5%
Q6. Do your beliefs tend to lean more towards the Democrats or the Republicans?(Select one) *Asked of those that selected 'Independent', 'None of these', or 'Don't know/Refused' at Q5	Towards the Democrats Towards the Republicans Definitely Independent Neither Don't know / Refused	19% 16% 25% 26% 14%



How to Calculate Bayesian Credibility Intervals

The calculation of credibility intervals assumes that Y has a binomial distribution conditioned on the parameter θ , 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 θ . This model is often called the likelihood function, and it is a standard concept in both the Bayesian and the Classical framework. The Bayesian ¹ 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 θ 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 ϑ is based on this posterior distribution. As mentioned above, these intervals represent our belief about which are the most plausible values for ϑ 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 weighting²

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