

Ipsos Poll Conducted for Reuters

Core Political Approval 10.08.13

These are findings from an Ipsos poll conducted for Thomson Reuters from October 4-8, 2013. For the survey, a sample of 1,300 Americans, including 511 Democrats, 440 Republicans, and 187 Independents ages 18+ were interviewed online. The precision of the Reuters/Ipsos online polls is measured using a <u>credibility interval</u>. In this case, the poll has a credibility interval of plus or minus 3.1 percentage points for all adults, 4.9 percentage points for Democrats, 5.3 percentage points for Republicans, and 8.2 percentage points for Independents. For more information about credibility intervals, please see the appendix.

The data were weighted to the U.S. current population data by gender, age, education, and ethnicity. 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. Figures marked by an asterisk (*) indicate a percentage value of greater than zero but less than one half of one per cent. Where figures do not sum to 100, this is due to the effects of rounding. To see more information on this and other Reuters/Ipsos polls, please visit http://polling.reuters.com/.

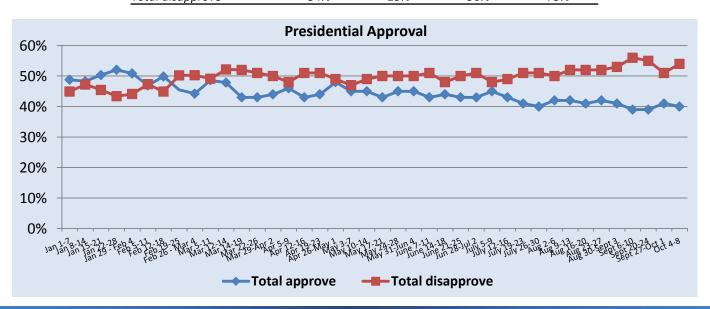
CORE POLITICAL APPROVAL

Q1. Generally speaking, would you say things in this country are heading in the right direction, or are they off on the wrong track?

	All adults	<u>Democrats</u>	<u>Republicans</u>	<u>Independents</u>
Right direction	15%	31%	4%	6%
Wrong track	68%	52%	88%	84%
Don't know	17%	17%	8%	10%

Q2. Overall, do you approve or disapprove about the way Barack Obama is handling his job as President? Q2a. Is that strongly (approve/disapprove) or somewhat (approve/disapprove)? (Asked of those who selected "approve" or "disapprove") Q2b. If you had to choose, do you lean more towards approve or disapprove? (Asked of those who selected "don't know")

	All adults	<u>Democrats</u>	Republicans	Independents
Strongly approve	17%	34%	2%	6%
Somewhat approve	19%	36%	5%	11%
Lean towards approve	4%	6%	*%	6%
Lean towards disapprove	3%	3%	3%	4%
Somewhat disapprove	14%	11%	15%	19%
Strongly disapprove	37%	9%	73%	51%
Not sure	6%	2%	2%	4%
Total approve	40%	75%	8%	23%
Total disapprove	54%	23%	90%	73%





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Q3. In your opinion, which political party has a better plan, policy or approach to each of the following?

All adults (n=320)	<u>Democratic</u> <u>Party</u>	Republican Party	Independents	<u>Other</u>	<u>None</u>	Don't know
Healthcare	31%	18%	7%	4%	13%	27%
The war on terror	23%	19%	6%	3%	13%	36%
Iran	21%	15%	6%	2%	17%	40%
The US Economy	26%	20%	6%	3%	14%	31%
Immigration	29%	16%	6%	3%	13%	33%
Social Security	29%	17%	8%	2%	14%	31%
Medicare	29%	14%	8%	4%	14%	30%
Taxes	27%	18%	10%	1%	12%	32%
Gay marriage	32%	11%	6%	2%	11%	37%
Jobs and employment	30%	17%	7%	3%	12%	30%
The federal government deficit	25%	18%	7%	2%	16%	33%
Supporting small businesses	24%	24%	6%	3%	10%	32%
Education	29%	15%	9%	2%	11%	34%
Foreign policy	22%	20%	6%	3%	15%	34%
Women's rights	34%	12%	8%	2%	9%	35%
The environment	32%	14%	8%	2%	12%	33%
Israel	20%	17%	5%	3%	14%	40%
Syria	17%	15%	7%	2%	19%	41%

PARTY ID	All Adults		
Strong Democrat	12%		
Moderate Democrat	20%		
Lean Democrat	8%		
Lean Republican	6%		
Moderate Republican	13%		
Strong Republican	9%		
Independent	15%		
None of these	11%		
Don't know	7%		
Total Democrat	40%		
Total Republican	28%		



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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 θ \, i.e., Y| θ ^Bin(n, θ), 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 (\overline{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 ($\pi(\theta/y)^{\circ}\theta(y+a,n-y+b)$), 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:

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

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
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¹ Bayesian Data Analysis, Second Edition, Andrew Gelman, John B. Carlin, Hal S. Stern, Donald B. Rubin, Chapman & Hall/CRC | ISBN: 158488388X | 2003

² Kish, L. (1992). Weighting for unequal Pi . Journal of Official, Statistics, 8, 2, 183200.