Ipsos Poll Conducted for Thomson Reuters

Core Political Data

APRIL 24, 2019

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These are findings from an Ipsos poll conducted for Reuters.

For the survey, a sample of 4,018 Americans including 1,449 Democrats, 1,437 Republicans, 788 Independents, and 18+ ages were interviewed online.

Date: April 17-23, 2019
Core Political Data

The precision of the Reuters/Ipsos online polls is measured using a credibility interval.

In this case, the poll has a credibility interval of plus or minus the following percentage points:

- **All Adults**: 1.8%
- **Democrats**: 2.9%
- **Republicans**: 2.9%
- **Independents**: 4.0%

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
- Ethnicity
- Region

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/
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**: 32% Right Direction, 56% Wrong Track, 12% Don’t know
- **Democrats**: 9% Right Direction, 12% Wrong Track, 80% Don’t know
- **Republicans**: 12% Right Direction, 26% Wrong Track, 62% Don’t know
- **Independents**: 12% Right Direction, 29% Wrong Track, 59% Don’t know
<table>
<thead>
<tr>
<th>Problem</th>
<th>All Adults</th>
<th>Democrat</th>
<th>Republican</th>
<th>Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economy generally</td>
<td>11%</td>
<td>10%</td>
<td>10%</td>
<td>14%</td>
</tr>
<tr>
<td>Unemployment / lack of jobs</td>
<td>3%</td>
<td>5%</td>
<td>2%</td>
<td>3%</td>
</tr>
<tr>
<td>War / foreign conflicts</td>
<td>2%</td>
<td>3%</td>
<td>2%</td>
<td>3%</td>
</tr>
<tr>
<td>Immigration</td>
<td>20%</td>
<td>8%</td>
<td>38%</td>
<td>18%</td>
</tr>
<tr>
<td>Terrorism / terrorist attacks</td>
<td>6%</td>
<td>6%</td>
<td>8%</td>
<td>4%</td>
</tr>
<tr>
<td>Healthcare</td>
<td>20%</td>
<td>27%</td>
<td>12%</td>
<td>21%</td>
</tr>
<tr>
<td>Energy issues</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Morality</td>
<td>7%</td>
<td>6%</td>
<td>8%</td>
<td>7%</td>
</tr>
<tr>
<td>Education</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Crime</td>
<td>4%</td>
<td>5%</td>
<td>5%</td>
<td>3%</td>
</tr>
<tr>
<td>Environment</td>
<td>6%</td>
<td>10%</td>
<td>2%</td>
<td>7%</td>
</tr>
<tr>
<td>Don’t know</td>
<td>8%</td>
<td>10%</td>
<td>5%</td>
<td>10%</td>
</tr>
<tr>
<td>Other</td>
<td>5%</td>
<td>5%</td>
<td>4%</td>
<td>3%</td>
</tr>
</tbody>
</table>
ALL ADULT AMERICANS

Most Important Problem Facing America

In your opinion, what is the most important problem facing the U.S. today?

- Economy Generally
- Unemployment / jobs
- Healthcare
- Terrorism
- Immigration
**DONALD TRUMP**

Overall, do you approve or disapprove of the way Donald Trump is handling his job as President?

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”)

<table>
<thead>
<tr>
<th></th>
<th>All Adults</th>
<th>Democrat</th>
<th>Republican</th>
<th>Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly approve</td>
<td>22%</td>
<td>4%</td>
<td>50%</td>
<td>16%</td>
</tr>
<tr>
<td>Somewhat approve</td>
<td>16%</td>
<td>6%</td>
<td>26%</td>
<td>19%</td>
</tr>
<tr>
<td>Lean towards approve</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
<td>3%</td>
</tr>
<tr>
<td>Lean towards disapprove</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Somewhat disapprove</td>
<td>11%</td>
<td>10%</td>
<td>8%</td>
<td>16%</td>
</tr>
<tr>
<td>Strongly disapprove</td>
<td>41%</td>
<td>71%</td>
<td>7%</td>
<td>40%</td>
</tr>
<tr>
<td>Not sure</td>
<td>7%</td>
<td>6%</td>
<td>6%</td>
<td>5%</td>
</tr>
</tbody>
</table>

**TOTAL APPROVE**

40% 12% 79% 37%

**TOTAL DISAPPROVE**

53% 83% 16% 58%
ALL ADULT AMERICANS

Weekly Approval

Overall, do you approve or disapprove of the way Donald Trump is handling his job as President?
### 2020 Democratic Presidential Candidates

How familiar are you with the following public figures, taking into account all the ways you may have heard about them? Would you say you are generally favorable or unfavorable towards these public figures? (Asked only of those aware of the individual people in the previous question)

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Familiarity</th>
<th>Favorability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe Biden</td>
<td>88%</td>
<td>63%</td>
</tr>
<tr>
<td>Kamala Harris</td>
<td>82%</td>
<td>66%</td>
</tr>
<tr>
<td>Elizabeth Warren</td>
<td>67%</td>
<td>66%</td>
</tr>
<tr>
<td>Bernie Sanders</td>
<td>84%</td>
<td>68%</td>
</tr>
<tr>
<td>Beto O'Rourke</td>
<td>83%</td>
<td>72%</td>
</tr>
<tr>
<td>Cory Booker</td>
<td>79%</td>
<td>71%</td>
</tr>
<tr>
<td>Julian Castro</td>
<td>79%</td>
<td>78%</td>
</tr>
<tr>
<td>Amy Klobuchar</td>
<td>51%</td>
<td>37%</td>
</tr>
<tr>
<td>Kirsten Gillibrand</td>
<td>33%</td>
<td>19%</td>
</tr>
<tr>
<td>Pete Buttigieg</td>
<td>33%</td>
<td>18%</td>
</tr>
<tr>
<td>Tulsi Gabbard</td>
<td>37%</td>
<td>17%</td>
</tr>
<tr>
<td>John Hickenlooper</td>
<td>37%</td>
<td>18%</td>
</tr>
<tr>
<td>Steve Bullock</td>
<td>19%</td>
<td>13%</td>
</tr>
<tr>
<td>Jay Inslee</td>
<td>18%</td>
<td>18%</td>
</tr>
<tr>
<td>John Delaney</td>
<td>18%</td>
<td>18%</td>
</tr>
<tr>
<td>Marianne Williamson</td>
<td>13%</td>
<td>23%</td>
</tr>
<tr>
<td>Andrew Yang</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Tim Ryan</td>
<td>19%</td>
<td>19%</td>
</tr>
<tr>
<td>Wayne Messam</td>
<td>58%</td>
<td>67%</td>
</tr>
<tr>
<td>Eric Swalwell</td>
<td>58%</td>
<td>66%</td>
</tr>
</tbody>
</table>

FAMILIARITY & FAVORABILITY AMONG DEMOCRATS
FAMILIARITY & FAVORABILITY AMONG ALL AMERICANS

2020 Democratic Presidential Candidates

How familiar are you with the following public figures, taking into account all the ways you may have heard about them? Would you say you are generally favorable or unfavorable towards these public figures? (Asked only of those aware of the individual people in the previous question)

Familiarity | Favorability
---|---
Joe Biden | 81%
Kamala Harris | 63%
Elizabeth Warren | 45%
Bernie Sanders | 55%
Beto O’Rourke | 59%
Cory Booker | 51%
Julian Castro | 58%
Amy Klobuchar | 43%
Kirsten Gillibrand | 42%
Pete Buttigieg | 49%
Tulsi Gabbard | 43%
John Hickenlooper | 31%
Steve Bullock | 30%
Jay Inslee | 26%
John Delaney | 26%
Marianne Williamson | 15%
Andrew Yang | 15%
Tim Ryan | 15%
Wayne Messam | 14%
Eric Swalwell | 14%

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Familiarity
Joe Biden 81%
Kamala Harris 63%
Elizabeth Warren 45%
Bernie Sanders 55%
Beto O’Rourke 59%
Cory Booker 51%
Julian Castro 58%
Amy Klobuchar 43%
Kirsten Gillibrand 42%
Pete Buttigieg 49%
Tulsi Gabbard 43%
John Hickenlooper 31%
Steve Bullock 30%
Jay Inslee 26%
John Delaney 26%
Marianne Williamson 15%
Andrew Yang 15%
Tim Ryan 15%
Wayne Messam 14%
Eric Swalwell 14%

Favorability
Joe Biden 42%
Kamala Harris 26%
Elizabeth Warren 26%
Bernie Sanders 31%
Beto O’Rourke 30%
Cory Booker 30%
Julian Castro 26%
Amy Klobuchar 26%
Kirsten Gillibrand 31%
Pete Buttigieg 30%
Tulsi Gabbard 17%
John Hickenlooper 16%
Steve Bullock 15%
Jay Inslee 15%
John Delaney 17%
Marianne Williamson 12%
Andrew Yang 16%
Tim Ryan 22%
Wayne Messam 10%
Eric Swalwell 17%
If the 2020 Democratic presidential primary election were held today, and you had to choose from the list of candidates below, for whom would you vote?
ALL ADULT AMERICANS

Political Identity

With which political party do you most identify?

- Strong Democrat: 18%
- Moderate Democrat: 12%
- Lean Democrat: 9%
- Lean Republican: 7%
- Moderate Republican: 11%
- Strong Republican: 15%
- Independent: 19%
- Other: 2%
- DK: 6%

Party ID

- Democrat: 30%
- Republican: 26%

Party ID w/ Lean

- Democrat: 39%
- Republican: 33%
- Independent: 19%
- None/DK: 8%
APPENDIX

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 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 \( (\pi(\theta|y) \sim \text{Beta}(y+a, n-y+b)) \), but with updated hyper-parameters.

Our credibility interval for \( \theta \) is based on this posterior distribution. As mentioned above, these intervals represent our belief about which are the most plausible values for \( \theta \) 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:

\[
\bar{y} \pm \frac{1}{\sqrt{n}}
\]
APPENDIX

How to Calculate Bayesian Credibility Intervals

FOR THIS POLL
The Bayesian credibility interval was adjusted using standard weighting design effect $1+L=1.3$ to account for complex weighting.

Examples of credibility intervals for different base sizes are below:

<table>
<thead>
<tr>
<th>SAMPLE SIZE</th>
<th>CREDIBILITY INTERVALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000</td>
<td>2.5</td>
</tr>
<tr>
<td>1,500</td>
<td>2.9</td>
</tr>
<tr>
<td>1,000</td>
<td>3.5</td>
</tr>
<tr>
<td>750</td>
<td>4.1</td>
</tr>
<tr>
<td>500</td>
<td>5.0</td>
</tr>
<tr>
<td>350</td>
<td>6.0</td>
</tr>
<tr>
<td>200</td>
<td>7.9</td>
</tr>
<tr>
<td>100</td>
<td>11.2</td>
</tr>
</tbody>
</table>

Ipsos does not publish data for base sizes (sample sizes) below 100.

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ISIN code FR0000073298, Reuters ISOS.PA, Bloomberg IPS:FP

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