

These are findings from an Ipsos poll conducted for Thomson Reuters March 10-17, 2015. For the survey, a sample of 2,128 Americans, including 838 Democrats, 736 Republicans, and 276 Independents, ages 18+ were interviewed online. 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 2.4 percentage points for all adults, 3.9 percentage points for Democrats, 4.1 percentage points for Republicans, and 6.7 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/>.

### HILLARY CLINTON EMAILS

Q1. From the list below, please choose the topics or issues you have heard or read anything about in the past few days. You can choose as many or few as needed. (Added on 3/6/2015)

	Total (n=3,227)	Democrats (n=1,306)	Republicans (n=1,099)	Independents (n=442)
Hillary Clinton using a personal email account for official business during her time as Secretary of State	67%	69%	76%	64%

Q2. Looking ahead to the 2016 elections, do you think it would be a good thing or a bad thing if Hillary Clinton were to face a strong challenger in the Democratic primaries?

	Total	Democrats	Republicans	Independents
Good thing	61%	63%	71%	56%
Bad thing	13%	13%	14%	9%
Not sure	27%	24%	14%	34%

Q3. As you may have heard, Hillary Clinton used a personal email account rather than a State Department email account for all of her official correspondence while she was Secretary of State.

Why do you think Hillary Clinton did this? You may choose as many as apply. (Select all that apply)

	Total	Democrats	Republicans	Independents
To keep her emails more private and excluded from official records	38%	30%	55%	42%
To intentionally avoid scrutiny by the public, press and Congress	30%	20%	51%	33%
To keep her communications more confidential and secure	27%	30%	28%	28%
Previous Secretaries of State also used personal email accounts, and so it was not unusual	19%	30%	9%	17%
It was an oversight – she was not aware of the federal rules about using personal email accounts	11%	14%	7%	9%
Another reason	5%	5%	4%	3%
Don't know	22%	18%	12%	26%

Q4. How, if at all, does this impact your likelihood of voting for Hillary Clinton in...?

<i>The General Election</i>	<u>Total</u>	<u>Democrats</u>	<u>Republicans</u>	<u>Independents</u>
Makes me more likely to vote for her	12%	19%	7%	6%
Makes me less likely to vote for her	27%	16%	44%	28%
No impact on whether I will vote for her	49%	52%	46%	55%
Don't know	12%	13%	3%	12%

<i>The Democratic Primary</i>	<u>Democrats</u> <u>(n=822)</u>
Makes me more likely to vote for her	25%
Makes me less likely to vote for her	14%
No impact on whether I will vote for her	51%
Don't know	10%

Q5. Hillary Clinton recently held a press conference to address the issue of her use of a private email account for official business while Secretary of State. Have you seen, read or heard anything about this press conference?  
(Added on 3/11/2015)

	<u>Total</u> <u>(n=1,809)</u>	<u>Democrats</u> <u>(n=722)</u>	<u>Republicans</u> <u>(n=627)</u>	<u>Independents</u> <u>(n=225)</u>
Yes	49%	55%	56%	41%
No	51%	45%	44%	59%

Q6. During the press conference, was Hillary Clinton...? (Added on 3/11/2015, asked of those who had heard about the press conference)

	<u>Total</u> <u>(n=956)</u>	<u>Democrats</u> <u>(n=419)</u>	<u>Republicans</u> <u>(n=367)</u>	<u>Independents</u> <u>(n=105)</u>
Composed	37%	52%	20%	39%
Evasive	33%	14%	61%	32%
Avoiding answering questions directly	32%	17%	54%	34%
Honest	27%	43%	8%	22%
Thorough in her responses	23%	34%	9%	26%
Frazzled	12%	7%	22%	8%
None of these	2%	2%	2%	2%
Not sure	11%	10%	8%	11%

Q7. Please indicate how much you agree or disagree with the following statements: *(Added on 3/11/2015)*

<i>TOTAL (n=1,809)</i>	Strongly agree	Somewhat agree	Somewhat disagree	Strongly disagree	Don't know	<i>TOTAL AGREE</i>	<i>TOTAL DISAGREE</i>
Hillary Clinton has a right to keep her personal emails (not related to work) private.	46%	24%	8%	9%	12%	71%	17%
There should be an independent review of all of Hillary Clinton's emails from her personal account to ensure that she has turned over everything work-related.	32%	23%	16%	13%	16%	55%	29%
This issue has hurt her chances in the upcoming 2016 election.	17%	29%	18%	15%	22%	46%	32%
Hillary Clinton broke the law by using a personal email account to conduct official business while Secretary of State.	23%	19%	16%	16%	26%	42%	32%
I believe that Hillary Clinton turned over all work related emails to the State Department.	19%	22%	15%	22%	23%	41%	37%
<i>Democrats (n=722)</i>	Strongly agree	Somewhat agree	Somewhat disagree	Strongly disagree	Don't know	<i>TOTAL AGREE</i>	<i>TOTAL DISAGREE</i>
Hillary Clinton has a right to keep her personal emails (not related to work) private.	60%	22%	5%	4%	10%	81%	9%
I believe that Hillary Clinton turned over all work related emails to the State Department.	31%	28%	13%	8%	20%	59%	21%
There should be an independent review of all of Hillary Clinton's emails from her personal account to ensure that she has turned over everything work-related.	22%	24%	23%	17%	13%	46%	40%
This issue has hurt her chances in the upcoming 2016 election.	12%	25%	23%	22%	18%	37%	45%
Hillary Clinton broke the law by using a personal email account to conduct official business while Secretary of State.	13%	21%	20%	25%	22%	34%	44%

Q7. Please indicate how much you agree or disagree with the following statements: (cont.)

<i>Republicans (n=627)</i>	Strongly agree	Somewhat agree	Somewhat disagree	Strongly disagree	Don't know	TOTAL AGREE	TOTAL DISAGREE
There should be an independent review of all of Hillary Clinton's emails from her personal account to ensure that she has turned over everything work-related.	52%	25%	9%	6%	7%	77%	16%
This issue has hurt her chances in the upcoming 2016 election.	28%	39%	12%	6%	15%	67%	18%
Hillary Clinton has a right to keep her personal emails (not related to work) private.	35%	31%	11%	16%	6%	67%	27%
Hillary Clinton broke the law by using a personal email account to conduct official business while Secretary of State.	42%	22%	11%	7%	17%	64%	19%
I believe that Hillary Clinton turned over all work related emails to the State Department.	8%	14%	18%	45%	15%	22%	64%
<i>Independents (n=225)</i>	Strongly agree	Somewhat agree	Somewhat disagree	Strongly disagree	Don't know	TOTAL AGREE	TOTAL DISAGREE
Hillary Clinton has a right to keep her personal emails (not related to work) private.	44%	25%	8%	12%	11%	69%	20%
There should be an independent review of all of Hillary Clinton's emails from her personal account to ensure that she has turned over everything work-related.	32%	26%	13%	15%	14%	58%	28%
This issue has hurt her chances in the upcoming 2016 election.	15%	29%	20%	14%	22%	44%	34%
Hillary Clinton broke the law by using a personal email account to conduct official business while Secretary of State.	21%	17%	18%	13%	31%	38%	31%
I believe that Hillary Clinton turned over all work related emails to the State Department.	12%	25%	16%	23%	24%	38%	39%

Q8. Has your personal opinion of Hillary Clinton changed as a result of this situation? (Added on 3/11/2015)

	Total (n=1,809)	Democrats (n=722)	Republicans (n=627)	Independents (n=225)
Yes – I am now more favorable towards Hillary Clinton	7%	13%	2%	4%
Yes – I am now less favorable towards Hillary Clinton	19%	14%	32%	15%
My opinion of Hillary Clinton has not changed	66%	67%	63%	73%
Don't know	8%	5%	2%	8%

Q9. As you may know, the House Select Committee on Benghazi may request private emails from Hillary Clinton's top aides during her time as Secretary of State. Republicans in Congress contend that crucial details related to the attack on Benghazi may have been captured in emails between private email accounts. To what extent do you support or oppose the Republican-controlled committee forcing her to testify about the emails? (Added on 3/11/2015)

	Total (n=1,809)	Democrats (n=722)	Republicans (n=627)	Independents (n=225)
Strongly support	30%	19%	55%	21%
Somewhat support	21%	22%	24%	26%
Somewhat oppose	13%	20%	6%	14%
Strongly oppose	14%	24%	3%	15%
Don't know	22%	16%	12%	25%
<b>TOTAL SUPPORT</b>	<b>51%</b>	<b>41%</b>	<b>79%</b>	<b>47%</b>
<b>TOTAL OPPOSE</b>	<b>27%</b>	<b>43%</b>	<b>9%</b>	<b>29%</b>

## 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

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

<sup>2</sup> Kish, L. (1992). *Weighting for unequal Pi*. *Journal of Official, Statistics*, 8, 2, 183200.