

## OUR ENVIRONMENT

- Global Climate Change
- Single-Use Plastics



**A National and Florida Poll  
Saint Leo University Polling Institute  
February 2019**

## **Statement of Confidentiality and Ownership**

---

All of the analyses, findings and recommendations contained within this report are the exclusive property of the Saint Leo University Polling Institute.

As required by the Code of Ethics of the National Council on Public Polls and the United States Privacy Act of 1974, the Saint Leo University Polling Institute maintains the anonymity of respondents to surveys the Institute conducts. No information will be released that might, in any way, reveal the identity of the respondent.

Moreover, no information regarding these findings will be released without the written consent of an authorized representative of the Saint Leo University Polling Institute.

Cover photo credit: NASA/JPL-Caltech

Downloaded from:

<https://www.jpl.nasa.gov/spaceimages/details.php?id=PIA18055>

## INTRODUCTION

---

The Saint Leo University Polling Institute is pleased to present the results of a national poll of Americans.

The poll was designed to assess public views regarding politics, 2020 candidates, issues, Pope Francis, the Catholic Church, divisions among Americans, levels of political engagement, and the environment. Also, among Florida poll participants – job ratings for the Governor and U.S. Senators were collected.

The research study included survey responses from 1000 respondents nationally and 500 respondents within Florida approximately proportional to state population contribution. The poll was conducted February 16 – 25, 2019. A pre-test occurred on February 16, 2019.

The national poll included the following areas for investigation:

- Job approval ratings for President Trump, Vice-President Pence, U.S. House Speaker Nancy Pelosi and U.S. Senate Majority Leader Mitch McConnell;
- Issues of concern;
- Impressions of Pope Francis;
- Impressions of the Catholic Church;
- Ratings of Pope Francis on several initiatives;
- Levels of political engagement/activity;
- Views on divisions among Americans today;
- Views on the environment – Part II;
- Personal commitments to conservation and protecting the environment- Part II;
- Participation in Lent in 2019;
- Views on Florida 2018 candidates; and,
- Demographics.

## METHODOLOGY

---

Using a quantitative research design, the Saint Leo University Polling Institute completed 1000 online surveys nationally and 500 among Florida residents.

Survey design input was provided by the membership of the Polling Institute Committee.

Survey design is a careful, deliberative process to ensure fair, objective and balanced surveys. Staff members, with years of survey design experience, edit out any bias. Further, all scales used by the Institute (either numeric, such as one through ten, or wording such as strongly agree, somewhat agree, somewhat disagree, or strongly disagree) are balanced evenly. Additionally, placement of questions is carefully accomplished so that order has minimal impact.

This survey was conducted February 16-25, 2019.

Respondents qualified for the survey if they were a resident of the United States and 18 years of age or older. Responses were approximately proportional to each state's population.

All facets of the study were completed by the Polling Institute's senior staff and researchers. These aspects include survey design, pre-test, computer programming, fielding, coding, editing, verification, validation and logic checks, computer analysis, analysis and report writing.

Statistically, a sample of 1000 completed surveys has an associated margin for error of +/- 3.0% at a 95% confidence level. A sample of 500 Florida respondents has an associated margin for error of +/- 4.5% at a 95% confidence level.

Results throughout this report are presented for composite results – all 1000 cases. Throughout, composite results are presented side by side with Florida specific results.

Readers of this report should note that any survey is analogous to a snapshot in time and results are only reflective of the time period in which the survey was undertaken. Should concerted public relations or information campaigns be undertaken during or shortly after the fielding of the survey, the results contained herein may be expected to change and should be, therefore, carefully interpreted and extrapolated.

Furthermore, it is important to note that all surveys contain some component of “sampling error”. Error that is attributable to systematic bias has been significantly reduced by utilizing strict random probability procedures. This sample was strictly random in that selection of each potential respondent was an independent event based on known probabilities.

Each qualified online panel member within the United States had an equal chance for participating in the study. Statistical random error, however, can never be eliminated but may be significantly reduced by increasing sample size.

## HIGHLIGHTS

---

Concern over global climate change has been measured for five consecutive years. Currently 71.3% suggest they are very or somewhat concerned. A longitudinal table of poll findings for the past five years is available in the detailed findings.

A majority, 54.8%, continues to believe that global climate change is caused by both human activity and by nature. Nearly one quarter, 21.5%, suggest global climate change is caused entirely by human activity while 11.5% indicated that it is due entirely by nature.

Majorities of respondents reported they believe that global climate change is responsible for environmental events such as warmer temperatures, oceans rising, drought, beach erosion, loss of habitats, inland flooding, loss of threatened species, worsened air quality, polar oscillations, severe storms and bomb cyclones.

Sources considered the most trustworthy regarding information about global climate changes included non-governmental scientists and educators, environmental groups, the mainstream media, Neil deGrasse Tyson and college professors/educators.

Interestingly, “personal responsibility” (26.3%) was deemed the most able to prevent the causes of global climate warming. This was followed by the federal or national government (22.4%).

A majority, 54.7%, believed the federal government is most responsible for dealing with problems associated with global climate change. This was followed by national bodies (40.0%), state governments (35.7%) and the private sector (34.0%).

Similarly, the federal government and international bodies were both seen as best able to deal with the problems associated with climate change – 33.9% and 18.9%, respectively.

Nearly a majority, 47.0%, were unsure which entities had been effective in dealing with the problems attributed to global climate change. This was followed by international bodies (20.3%) and the federal government (19.9%).

One in five respondents, 18.5%, noted their respective communities have a department or professional organization dedicated to climate change efforts.

Majorities believed that climate change should be taught in primary and secondary schools as accepted theory (64.4%), plastic straws should be banned (57.9%), and single use plastic bags should be banned (60.5%).

Activities undertaken to reduce carbon pollution centered mostly on purchasing higher efficiency appliances (44.9%), planting trees (25.8%), buying smaller cars (24.1%) and adding home insulation (23.0%).

Activities respondents were willing to take centered mostly on the same actions including planting trees (51.0%), purchasing higher efficiency appliances (50.9%), adding home insulation (39.5%), and buying smaller cars (34.9%).

In 2019, 64.0%, noted they believe that environmental protection was the responsibility of people of faith. This is statistically unchanged from 2018 – 64.3%.

## SUMMARY OF FINDINGS

---

Readers are reminded that the narrative throughout this report refers to national composite aggregate data – the 1000 completed surveys as well as the supplemental sample of 500 Florida respondents. Text throughout this report presents national composite results while many graphs and tables also present results among Florida respondents.

All respondents were asked several questions about the environment and global climate change. Each was initially asked how concerned they were about global climate change. Results are shown for results collected in 2015, 2016, 2017, 2018 and 2019.

### National

|                              | 2015 - %    | 2016 - %    | 2017 - %    | 2018 - %    | 2019 - %    |
|------------------------------|-------------|-------------|-------------|-------------|-------------|
| Very concerned               | 30.0        | 37.1        | 43.5        | 40.0        | 35.8        |
| Somewhat concerned           | 43.0        | 37.9        | 31.6        | 34.4        | 35.5        |
| <b>Combined - concern</b>    | <b>73.0</b> | <b>75.0</b> | <b>75.1</b> | <b>74.4</b> | <b>71.3</b> |
| Somewhat unconcerned         | 15.0        | 11.0        | 12.2        | 11.4        | 11.6        |
| Not at all concerned         | 11.0        | 9.9         | 9.9         | 11.3        | 14.3        |
| <b>Combined -unconcerned</b> | <b>26.0</b> | <b>20.9</b> | <b>22.1</b> | <b>22.7</b> | <b>25.9</b> |
| Don't know                   | 1           | 4.0         | 2.8         | 2.9         | 2.8         |

### Florida

|                              | 2015 - %  | 2016 - %    | 2017 - %    | 2018 - %    | 2019 - %    |
|------------------------------|-----------|-------------|-------------|-------------|-------------|
| Very concerned               | 28        | 45.9        | 39.6        | 41.8        | 39.6        |
| Somewhat concerned           | 39        | 35.4        | 35.9        | 32.6        | 29.0        |
| <b>Combined - concern</b>    | <b>67</b> | <b>81.3</b> | <b>75.5</b> | <b>74.4</b> | <b>68.6</b> |
| Somewhat unconcerned         | 18        | 7.6         | 10.8        | 12.0        | 13.0        |
| Not at all concerned         | 14        | 8.3         | 10.8        | 9.8         | 16.0        |
| <b>Combined -unconcerned</b> | <b>32</b> | <b>15.9</b> | <b>21.6</b> | <b>21.8</b> | <b>29.0</b> |
| Don't know                   | 1         | 2.8         | 2.8         | 3.8         | 2.4         |

[**Note:** In the remaining charts, because of space limitations we present data from 2016 to current. To compare with 2015 results, please see the supplemental findings at the end of this section for current data.]

Respondents were presented with a choice of statements and asked to select the one that best reflects what they believe.

Results are displayed in the following table.

| <b>Views on Global Climate Change</b>   | <b>National March 2016</b> | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2016</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|---|----------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| Global climate change is caused entirely by human activity                    | 16.3                       | 22.1                       | 22.9                          | 21.5                          | 19.4                      | 23.1                      | 22.0                         | 21.4                         |
| Global climate change is caused entirely by nature                            | 9.8                        | 10.1                       | 11.4                          | 11.5                          | 8.7                       | 13.2                      | 13.8                         | 13.4                         |
| Global climate change is caused by a combination of human activity and nature | 64.0                       | 59.5                       | 54.9                          | 54.8                          | 62.4                      | 54.0                      | 56.4                         | 52.2                         |
| I don't believe global climate change is occurring                            | 4.1                        | 3.4                        | 4.8                           | 6.1                           | 3.7                       | 5.7                       | 3.2                          | 7.4                          |
| Don't know / unsure   | 5.8                        | 4.9                        | 6.0                           | 6.1                           | 5.7                       | 3.9                       | 4.6                          | 5.6                          |



Each respondent was asked to indicate if they saw each of the following occurring in their state or region. Multiple responses were accepted. Results are presented in declining order based on February 2019 national results.

| <b>Do You See Any of the Following Occurring in your State or Region?</b>      | <b>National March 2016</b> | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2016</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|--|----------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| Warmer temperatures  | 57.1                       | 59.2                       | 47.7                          | 42.4                          | 57.0                      | 60.2                      | 66.4                         | 49.6                         |
| Unusually severe weather and/or storms   | 29.6                       | 32.3                       | 32.4                          | 39.2                          | 28.3                      | 20.9                      | 43.8                         | 38.8                         |
| Worsened air quality   | 19.2                       | 21.2                       | 25.0                          | 22.3                          | 10.6                      | 14.8                      | 20.0                         | 14.8                         |
| Beach erosion  | 19.3                       | 23.3                       | 24.4                          | 21.4                          | 57.2                      | 48.3                      | 61.4                         | 56.0                         |
| Worsened drought conditions  | 21.8                       | 23.9                       | 26.3                          | 19.7                          | 11.9                      | 17.2                      | 26.2                         | 14.8                         |
| Inland flooding  | 11.3                       | 16.3                       | 17.2                          | 17.7                          | 11.1                      | 15.2                      | 21.7                         | 17.0                         |
| Increased polar oscillations (also called polar vortex or displaced polar air) | 5.6                        | 12.7                       | 9.0                           | 16.1                          | 2.8                       | 6.9                       | 4.0                          | 5.8                          |
| Loss or threatened loss of habitats  | 8.9                        | 15.6                       | 15.8                          | 15.6                          | 20.4                      | 25.0                      | 25.0                         | 23.2                         |
| Ocean rising or seacoast flooding  | 11.6                       | 15.4                       | 18.4                          | 15.1                          | 33.5                      | 32.0                      | 42.4                         | 37.6                         |
| Loss or threatened loss of species   | 7.8                        | 14.3                       | 13.9                          | 13.6                          | 14.8                      | 20.3                      | 23.6                         | 24.4                         |
| Bomb cyclones  | ---                        | ---                        | 8.5                           | 4.6                           | ---                       | ---                       | 8.6                          | 8.0                          |
| Stronger El Nino effects   | 20.8                       | 16.8                       | ---                           | ---                           | 27.8                      | 18.3                      | ---                          | ---                          |

The poll included an opportunity for respondents to identify **how responsible global climate change was for environmental events**. For each of the following, respondents were asked if global climate change was very responsible, somewhat responsible, not very responsible or not at all responsible.

The table holds the cumulative totals for those suggesting global climate change was very or somewhat responsible for each environmental event. Results are displayed in declining order by national February 2019 results.

| <b>Responsibility for Global Climate Change?</b>                               | <b>National March 2016</b> | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2016</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|--|----------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| Warmer temperatures  | 72.4                       | 75.4                       | 74.1                          | 68.9                          | 77.4                      | 75.5                      | 74.8                         | 66.2                         |
| Ocean rising or seacoast flooding  | 69.9                       | 71.6                       | 74.1                          | 66.9                          | 75.6                      | 75.3                      | 73.4                         | 67.2                         |
| Unusually severe weather / storms  | 65.5                       | 65.9                       | 69.0                          | 63.8                          | 68.3                      | 66.5                      | 67.2                         | 62.4                         |
| Worsened drought conditions  | 66.2                       | 68.7                       | 68.0                          | 61.9                          | 67.6                      | 67.9                      | 67.4                         | 58.4                         |
| Beach erosion  | 62.3                       | 64.6                       | 68.8                          | 61.2                          | 67.4                      | 70.4                      | 65.2                         | 63.6                         |
| Loss or threatened loss of habitats  | 55.2                       | 61.3                       | 65.1                          | 58.7                          | 59.6                      | 62.9                      | 58.2                         | 58.4                         |
| Inland flooding  | 61.0                       | 62.7                       | 64.4                          | 58.6                          | 61.1                      | 60.9                      | 61.0                         | 60.0                         |
| Loss or threatened loss of species   | 54.0                       | 59.3                       | 63.2                          | 58.3                          | 59.4                      | 60.7                      | 57.4                         | 57.8                         |
| Worsened air quality   | 52.9                       | 55.8                       | 60.6                          | 56.8                          | 53.3                      | 59.8                      | 58.2                         | 53.0                         |
| Increased polar oscillations (also called polar vortex or displaced polar air) | 58.9                       | 61.7                       | 60.1                          | 55.3                          | 58.3                      | 60.2                      | 59.4                         | 54.6                         |
| Bomb cyclones  | ---                        | ---                        | 60.3                          | 50.3                          | ---                       | ---                       | 56.6                         | 51.8                         |
| Stronger El Nino effects   | 61.5                       | 63.8                       | ---                           | ---                           | 64.8                      | 63.7                      | ---                          | ---                          |

Survey respondents were asked which entities, media or individuals they **considered trustworthy** for information about global climate change. Multiple responses were accepted. The table includes the results as collected in declining order by February 2019 national results.

| <b>Most Trustworthy?</b>   | <b>National<br/>March<br/>2016</b> | <b>National<br/>March<br/>2017</b> | <b>National<br/>February<br/>2018</b> | <b>National<br/>February<br/>2019</b> | <b>Florida<br/>March<br/>2016</b> | <b>Florida<br/>March<br/>2017</b> | <b>Florida<br/>February<br/>2018</b> | <b>Florida<br/>February<br/>2019</b> |
|--|------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|
| Non-government scientists and educators  | 45.0                               | 42.2                               | 42.9                                  | 40.3                                  | 45.0                              | 39.8                              | 36.8                                 | 36.6                                 |
| Environmental groups   | 30.7                               | 33.3                               | 31.0                                  | 29.9                                  | 38.5                              | 36.9                              | 29.8                                 | 29.2                                 |
| Mainstream media such as U.S. newspapers, broadcasters, and online media such as CBS, ABC, NBC, CNN, Associated Press, New York Times, Washington Post and The Weather Channel | 31.1                               | 38.0                               | 37.3                                  | 28.8                                  | 35.9                              | 39.4                              | 35.8                                 | 29.0                                 |
| Scientist and Cosmos TV series host Neil deGrasse Tyson  | 22.1                               | 26.4                               | 26.1                                  | 22.7                                  | 25.7                              | 25.2                              | 22.4                                 | 23.8                                 |
| College professors / educators   | ---                                | ---                                | 25.1                                  | 20.0                                  | ---                               | ---                               | 19.2                                 | 18.6                                 |
| Fox News, Washington Times, radio commentators such as Sean Hannity and/or Rush Limbaugh   | ---                                | ---                                | 13.6                                  | 14.3                                  | ---                               | ---                               | 20.4                                 | 20.2                                 |
| MSNBC, Huffington Post   | 4.6                                | 7.1                                | 15.1                                  | 11.9                                  | 5.0                               | 10.5                              | 13.4                                 | 15.0                                 |
| U.S. Government  | 10.0                               | 9.7                                | 8.2                                   | 10.0                                  | 13.0                              | 14.0                              | 9.2                                  | 10.6                                 |
| Social media   | 7.3                                | 13.0                               | 12.4                                  | 8.7                                   | 8.3                               | 16.4                              | 11.4                                 | 10.0                                 |
| Family, friends, or co-workers   | 6.9                                | 10.8                               | 10.4                                  | 8.4                                   | 5.7                               | 11.6                              | 7.6                                  | 9.6                                  |
| President Obama / President Trump*   | 12.2                               | 9.2                                | 7.5                                   | 8.2                                   | 17.2                              | 9.3                               | 10.0                                 | 10.0                                 |
| Business or industry groups  | 2.1                                | 5.2                                | 4.1                                   | 4.4                                   | 1.9                               | 5.5                               | 4.8                                  | 4.6                                  |
| Utility companies  | 2.7                                | 3.9                                | 4.1                                   | 4.1                                   | 4.3                               | 6.3                               | 4.0                                  | 5.6                                  |
| Entertainers and celebrities   | 1.3                                | 2.6                                | 3.2                                   | 1.5                                   | 1.1                               | 3.7                               | 3.4                                  | 2.4                                  |

\*Note: President Obama in 2015 and 2016. President Trump in 2017, 2018 and 2019.

In a new question for February 2018, all respondents were asked which of one the following is best able to **prevent the causes of global warming**.

Results are displayed in the following table in declining order by national data.

| <b>Best able to prevent the causes of global warming?</b> | <b>National 2018</b> | <b>National 2019</b> | <b>Florida 2018</b> | <b>Florida 2019</b> |
|---|----------------------|----------------------|---------------------|---------------------|
| Personal responsibility of every individual               | 21.7                 | 26.3                 | 21.0                | 25.6                |
| Don't know / not sure                                     | 21.7                 | 23.1                 | 19.4                | 19.4                |
| Federal or national government                            | 20.9                 | 22.4                 | 21.2                | 22.8                |
| International bodies                                      | 15.9                 | 13.3                 | 16.4                | 14.6                |
| Private sector businesses or entrepreneurs                | 9.6                  | 7.4                  | 11.2                | 7.6                 |
| Local governments   | 4.5                  | 3.8                  | 4.0                 | 4.8                 |
| State governments   | 5.7                  | 3.7                  | 6.8                 | 5.2                 |

Respondents indicated which entities **they believed were responsible** for dealing with problems associated with global climate change. Multiple responses were allowed and presented here in declining order by February 2019 results.

| <b>Who is responsible for dealing with the problems associated with climate change?</b> | <b>National March 2016</b> | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2016</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|---|----------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| Federal or national government  | 55.7                       | 61.0                       | 54.6                          | 54.7                          | 62.2                      | 59.2                      | 56.2                         | 52.6                         |
| International bodies  | 45.0                       | 46.6                       | 43.4                          | 40.0                          | 48.3                      | 40.0                      | 40.2                         | 42.2                         |
| State Governments   | 42.5                       | 41.4                       | 39.2                          | 35.7                          | 44.1                      | 44.4                      | 36.2                         | 37.0                         |
| Private sector businesses or entrepreneurs  | 37.0                       | 36.5                       | 37.1                          | 34.0                          | 39.6                      | 33.1                      | 35.4                         | 32.2                         |
| Local Governments   | 36.4                       | 34.4                       | 34.2                          | 31.0                          | 38.9                      | 38.1                      | 33.8                         | 32.6                         |
| Don't know / not sure   | 22.6                       | 17.5                       | 20.7                          | 21.3                          | 17.4                      | 16.0                      | 16.8                         | 17.2                         |

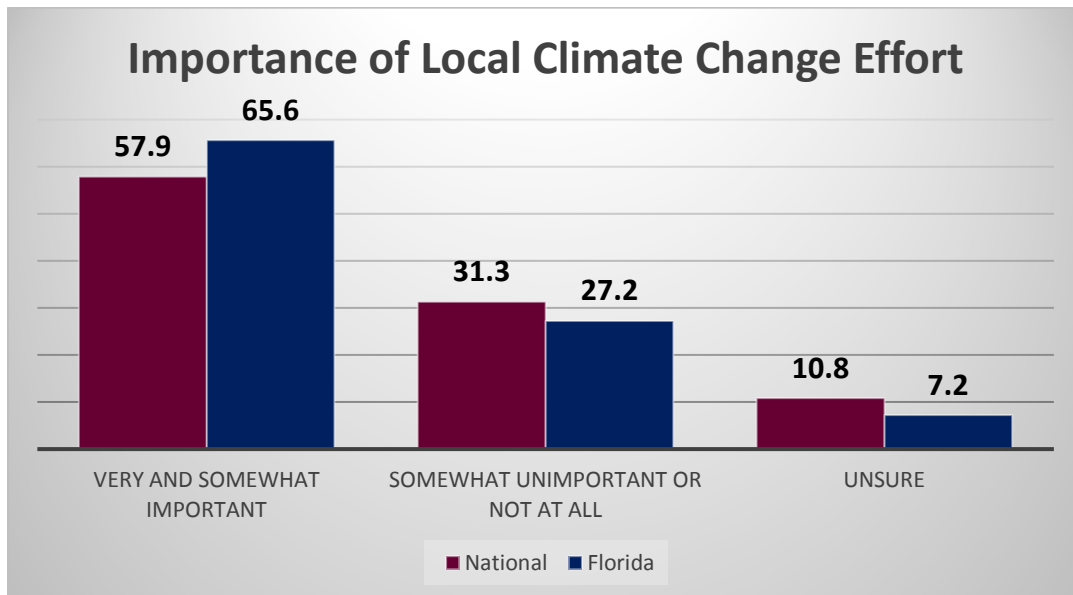
Respondents were asked which **one** of several entities they **believed was best able to deal with the problems** associated with global climate change. Results are displayed in the following graphs in declining order based on National February 2019 national results.

| Which one is most able to deal with global climate change problems? | National March 2016 | National March 2017 | National February 2018 | National February 2019 | Florida March 2016 | Florida March 2017 | Florida February 2018 | Florida February 2019 |
|---|---------------------|---------------------|------------------------|------------------------|--------------------|--------------------|-----------------------|-----------------------|
| Federal or national government                                      | 27.3                | 32.2                | 27.4                   | 33.9                   | 31.5               | 32.4               | 28.6                  | 34.6                  |
| Don't know / not sure   | 25.5                | 20.2                | 22.7                   | 23.5                   | 20.9               | 18.0               | 20.8                  | 19.6                  |
| International bodies  | 19.7                | 21.2                | 19.9                   | 18.9                   | 21.1               | 18.4               | 18.6                  | 17.8                  |
| Private sector businesses or entrepreneurs                          | 15.5                | 12.2                | 14.5                   | 13.9                   | 12.0               | 10.9               | 15.2                  | 13.6                  |
| State Governments   | 6.7                 | 8.8                 | 9.1                    | 6.2                    | 9.6                | 12.3               | 10.6                  | 8.4                   |
| Local Governments   | 5.3                 | 5.4                 | 6.4                    | 3.9                    | 4.8                | 8.1                | 6.2                   | 6.0                   |

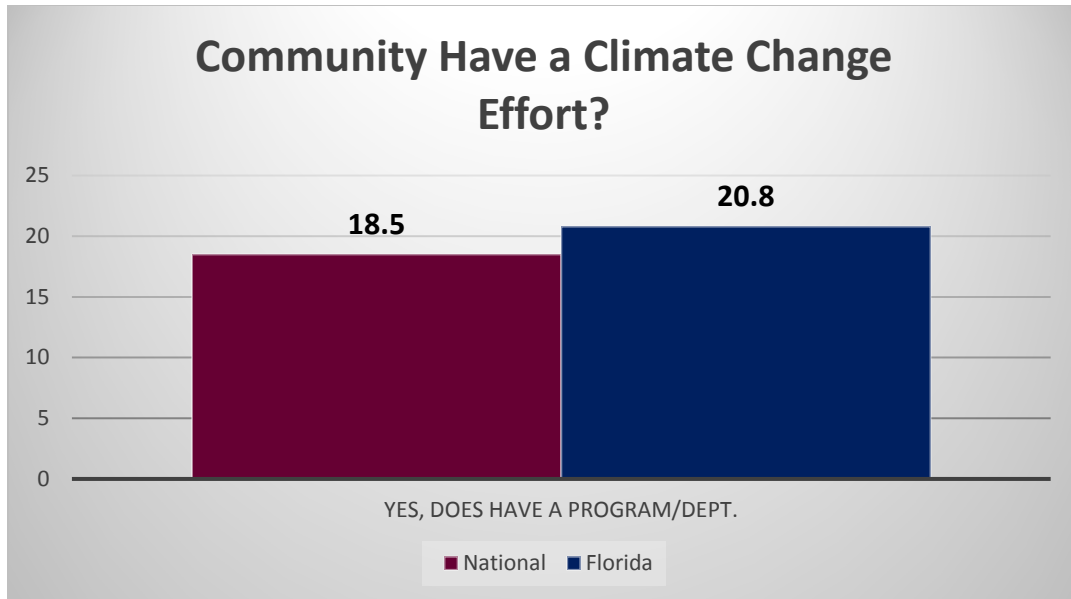
As a follow-up, respondents were asked which of the same entities **had been effective** in dealing with problems attributed to global climate change. Multiple responses were accepted. Results are shown in the following table in declining order by national February 2019 data.

| Which have been effective?                 | National March 2016 | National March 2017 | National February 2018 | National February 2019 | Florida March 2016 | Florida March 2017 | Florida February 2018 | Florida February 2019 |
|--|---------------------|---------------------|------------------------|------------------------|--------------------|--------------------|-----------------------|-----------------------|
| Don't know / not sure                      | 51.3                | 40.2                | 40.2                   | 47.0                   | 47.2               | 34.9               | 38.6                  | 40.0                  |
| International bodies                       | 16.7                | 24.2                | 23.4                   | 20.3                   | 20.7               | 23.1               | 21.6                  | 25.8                  |
| Federal or national government             | 22.0                | 26.6                | 21.4                   | 19.9                   | 25.6               | 30.8               | 22.0                  | 22.6                  |
| Private sector businesses or entrepreneurs | 11.4                | 17.8                | 20.6                   | 18.8                   | 14.1               | 18.7               | 20.2                  | 20.2                  |
| State Governments                          | 12.6                | 17.9                | 19.8                   | 16.8                   | 14.8               | 21.7               | 19.4                  | 20.4                  |
| Local Governments                          | 10.5                | 14.2                | 15.9                   | 11.9                   | 9.8                | 17.2               | 17.4                  | 19.2                  |

All respondents were asked how important they would say it is for their own community or area to establish a department with employees or start a program to work on the issue of climate change on the local level. A majority, 57.9%, indicated such a department or program would be very or somewhat important. Results are displayed in the following graph.



Each respondent was asked if their community, to the best of their knowledge, had such a department or professional organization dedicated to climate change efforts.



The following are several potential measures or actions related to climate change or environmental protection. For each, respondents were asked to indicate if they strongly agree, somewhat agree, somewhat disagree or strongly disagree.

The following table holds the cumulative totals for those strongly and somewhat agreeing with each statement.

| Climate Change Actions   | U.S.- % | Florida - % |
|--|---------|-------------|
| Climate change should be taught as accepted theory in public primary and secondary schools | 64.4    | 65.2        |
| Plastic straws should be banned  | 57.9    | 62.6        |
| Single use plastic shopping bags should be banned  | 60.5    | 64.2        |

Americans surveyed were asked which of several activities **they may have engaged in** to help reduce carbon pollution. Multiple responses were accepted and are presented here in declining order by February 2019 national results.

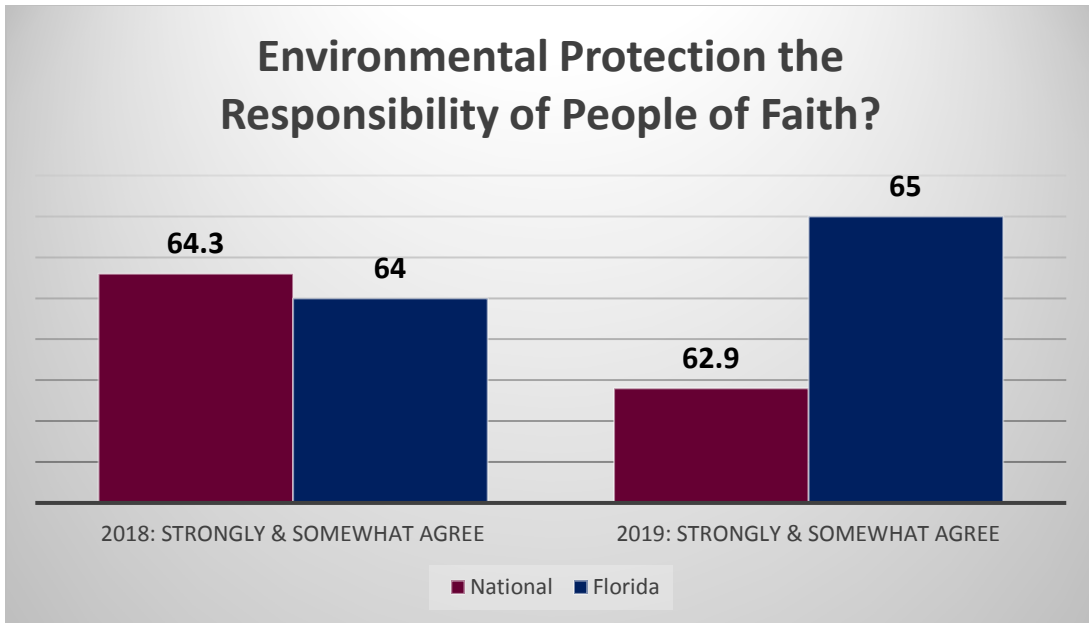
| <b>Activities undertaken to reduce carbon pollution?</b>                    | <b>National March 2016</b> | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2016</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|---|----------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| Purchased higher efficiency appliances                                      | 48.9                       | 50.2                       | 44.3                          | 44.9                          | 54.6                      | 46.7                      | 47.4                         | 45.2                         |
| Planted tree(s)   | 27.5                       | 31.5                       | 23.8                          | 25.8                          | 32.0                      | 29.4                      | 28.8                         | 26.8                         |
| Bought a smaller or more fuel-efficient car                                 | 30.0                       | 28.1                       | 23.3                          | 24.1                          | 34.6                      | 29.4                      | 27.2                         | 25.4                         |
| Added insulation to my home   | 23.8                       | 25.8                       | 24.7                          | 23.0                          | 22.2                      | 19.7                      | 19.2                         | 19.2                         |
| None of these   | 17.5                       | 13.5                       | 19.0                          | 18.6                          | 16.7                      | 12.8                      | 14.2                         | 20.6                         |
| Car pool or use mass transit  | 20.6                       | 25.5                       | 23.7                          | 17.9                          | 15.9                      | 21.1                      | 21.2                         | 15.4                         |
| Reduced or stopped eating meat  | 11.9                       | 17.0                       | 15.7                          | 14.3                          | 15.0                      | 15.2                      | 16.0                         | 17.4                         |
| Pay higher energy taxes to fund environmental efforts                       | 10.6                       | 17.1                       | 14.4                          | 12.1                          | 6.9                       | 15.2                      | 17.2                         | 10.2                         |
| Reduced or stopped eating dairy products                                    | 8.7                        | 11.2                       | 11.4                          | 11.3                          | 8.1                       | 13.0                      | 13.4                         | 9.8                          |
| Installed or purchased alternative energy sources such as solar for my home | 9.0                        | 15.9                       | 11.4                          | 9.4                           | 9.8                       | 14.6                      | 11.4                         | 8.8                          |
| Pay higher taxes for the construction of mass transit infrastructure        | 9.3                        | 14.7                       | 13.8                          | 8.6                           | 4.1                       | 8.9                       | 9.4                          | 8.2                          |
| Bought an electric car  | 2.5                        | 4.7                        | 4.0                           | 4.9                           | 2.4                       | 5.7                       | 3.8                          | 4.8                          |
| Don't know / not sure   | 5.5                        | 4.9                        | 5.2                           | 4.4                           | 5.9                       | 5.7                       | 4.6                          | 3.8                          |



As a follow-up, each respondent was asked which activities they would be **willing to do** to help reduce carbon pollution. Multiple responses were accepted and are presented in the following table in declining order based on February 2018 national results.

| <b>Activities undertaken to reduce carbon pollution?</b>                 | <b>National March 2016</b> | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2016</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|--|----------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| Plant tree(s)  | 49.4                       | 54.4                       | 49.2                          | 51.0                          | 43.7                      | 49.3                      | 46.2                         | 45.0                         |
| Purchase higher efficiency appliances                                    | 46.6                       | 52.2                       | 49.8                          | 50.9                          | 51.7                      | 47.3                      | 47.2                         | 48.2                         |
| Add insulation to my home  | 34.7                       | 40.8                       | 39.8                          | 39.5                          | 30.6                      | 35.5                      | 35.0                         | 35.4                         |
| Buy a smaller or more fuel-efficient car                                 | 32.1                       | 39.0                       | 35.8                          | 34.9                          | 35.6                      | 35.1                      | 35.4                         | 34.2                         |
| Install or purchase alternative energy sources such as solar for my home | 34.4                       | 40.1                       | 38.2                          | 32.9                          | 34.6                      | 41.4                      | 41.8                         | 32.0                         |
| Car pool or use mass transit   | 29.4                       | 34.4                       | 34.0                          | 25.9                          | 21.9                      | 31.6                      | 29.2                         | 29.4                         |
| Buy an electric car  | 15.6                       | 26.1                       | 24.4                          | 22.2                          | 16.3                      | 25.8                      | 24.4                         | 20.2                         |
| Pay higher energy taxes to fund environmental efforts                    | 14.8                       | 22.3                       | 22.8                          | 18.5                          | 15.2                      | 22.9                      | 21.0                         | 20.2                         |
| Pay higher taxes for the construction of mass transit infrastructure     | 11.6                       | 19.7                       | 18.7                          | 18.2                          | 13.5                      | 18.5                      | 19.4                         | 15.0                         |
| Reduce or stop eating meat   | 11.1                       | 19.7                       | 20.2                          | 17.7                          | 15.2                      | 20.1                      | 17.6                         | 17.0                         |
| Reduce or stop eating dairy products                                     | 9.1                        | 16.2                       | 17.5                          | 15.4                          | 11.3                      | 17.8                      | 16.2                         | 15.2                         |
| None of these  | 5.7                        | 7.4                        | 8.1                           | 8.5                           | 7.4                       | 6.1                       | 6.6                          | 10.2                         |
| Don't know / not sure  | 8.2                        | 7.3                        | 7.9                           | 7.0                           | 8.3                       | 7.7                       | 7.6                          | 5.8                          |

Poll respondents were asked how strongly they agreed or disagreed that protecting the environment is an important responsibility for people of religious faith. Nearly two-thirds, 62.9% -- down slightly from 64.3% in 2018, indicated they strongly or somewhat agreed that environmental protection is a responsibility of people of faith.



Poll respondents were presented with the following: *“Some people see environmental protections negatively impacting the U.S. economy, while others are committed to environmental protections. Which of the following reflects your own views on environmental protections?”*

The leading view was that environmental protections are “absolutely critical, no matter what”. The following depicts the responses collected. Multiple responses were accepted.

| <b>Impact of Environmental Protections</b>   | <b>National March 2017</b> | <b>National February 2018</b> | <b>National February 2019</b> | <b>Florida March 2017</b> | <b>Florida February 2018</b> | <b>Florida February 2019</b> |
|--|----------------------------|-------------------------------|-------------------------------|---------------------------|------------------------------|------------------------------|
| Environmental protections are absolutely critical, no matter what                    | 37.0                       | 36.7                          | 37.1                          | 40.8                      | 39.0                         | 40.0                         |
| Environmental protections are important even when they negatively impact the economy | 33.0                       | 36.4                          | 32.0                          | 35.5                      | 33.2                         | 30.0                         |
| Environmental protections create new economic opportunities                          | 31.5                       | 32.8                          | 31.4                          | 36.7                      | 33.8                         | 35.8                         |
| They should not be pursued if they negatively impact the economy                     | 16.9                       | 16.4                          | 18.7                          | 18.3                      | 13.6                         | 16.8                         |
| Unsure   | 14.4                       | 14.0                          | 13.4                          | 11.8                      | 12.2                         | 10.2                         |
| Environmental protections are harmful to the economy                                 | 5.7                        | 4.3                           | 7.5                           | 5.5                       | 5.4                          | 7.2                          |
| Environmental protection is not an important issue                                   | 5.4                        | 6.3                           | 6.9                           | 7.3                       | 6.2                          | 8.6                          |

## Supplement to current findings: 2015 U.S. Results and Florida Results (reprinted for comparison, some questions have changed)

### Global Climate Change Questions 2015 – U.S.

Nationwide Survey of 1,016 Adults (general population) Conducted March 15 - 19, 2015

By the Saint Leo University Polling Institute

Margin of Error: +/- 3.0% with a 95% level of confidence (subgroups larger)

Some percentages may add up to more or less than 100 due to rounding

*The following questions have an N of 1,016 and include all respondents, both voters and non-voters.*

How concerned are you about global climate change? Would you say you are very concerned, somewhat concerned, somewhat not concerned, or not at all concerned about global climate change?

| Total | Possible answers       |
|-------|------------------------|
| 30%   | Very concerned         |
| 43%   | Somewhat concerned     |
| 15 %  | Somewhat not concerned |
| 11 %  | Not at all concerned   |
| 1 %   | Don't know / unsure    |
|       |                        |

By gender and political affiliation

| M   | W   | R   | I   | D   |
|-----|-----|-----|-----|-----|
| 29% | 31% | 22% | 27% | 41% |
| 37% | 48% | 35% | 45% | 47% |
| 18% | 13% | 23% | 15% | 8%  |
| 14% | 8%  | 20% | 12% | 3%  |
| 2%  | <1% | 1%  | 2%  | 1%  |
| 456 | 543 | 266 | 395 | 312 |

N=

Q: Some people believe global climate change is currently occurring due to human activities, while others believe global climate change is part of a natural cycle. Which of the following best reflects what you believe?

| Total | Choices   |
|-------|---|
| 16%   | Global climate change is caused entirely by human activity                    |
| 14%   | Global climate change is caused entirely by nature                            |
| 61%   | Global climate change is caused by a combination of human activity and nature |
| 4%    | I don't believe global climate change is occurring                            |
| 4%    | Don't know/unsure   |
|       |   |

By gender and political affiliation

| M   | W   | R   | I   | D   |
|-----|-----|-----|-----|-----|
| 17% | 16% | 11% | 14% | 23% |
| 18% | 11% | 22% | 11% | 11% |
| 56% | 66% | 54% | 65% | 63% |
| 4%  | 4%  | 8%  | 5%  | <1% |
| 4%  | 4%  | 5%  | 4%  | 2%  |
| 456 | 543 | 266 | 395 | 312 |

N=

Q: Which of the following things have occurred in your state or region? Indicate all that apply; you may choose more than one.

|     |                                     |
|-----|-------------------------------------|
| 45% | Warmer temperatures                 |
| 45% | Unusually severe weather / storms   |
| 25% | Worsened air quality                |
| 24% | Worsened drought conditions         |
| 22% | Beach erosion                       |
| 15% | Ocean rising or seacoast flooding   |
| 15% | Loss or threatened loss of habitats |
| 10% | Loss or threatened loss of species  |

Q: How strongly do you think global climate change is responsible for the following things?

| Conditions - ranked by responses directly above | Very strongly | Somewhat Strongly | Not very strongly | Not at all strongly | Don't know / not sure |
|---|---------------|-------------------|-------------------|---------------------|-----------------------|
| Warmer temperatures                             | 35%           | 34%               | 17%               | 9%                  | 6%                    |
| Unusually severe weather / storms               | 35%           | 32%               | 18%               | 9%                  | 7%                    |
| Worsened air quality                            | 26%           | 28%               | 23%               | 14%                 | 9%                    |
| Worsened drought conditions                     | 32%           | 34%               | 17%               | 10%                 | 7%                    |
| Beach erosion                                   | 25%           | 37%               | 18%               | 11%                 | 9%                    |
| Ocean rising or seacoast flooding               | 30%           | 35%               | 17%               | 10%                 | 8%                    |
| Loss or threatened loss of habitats             | 24%           | 33%               | 22%               | 12%                 | 9%                    |
| Loss or threatened loss of species              | 24%           | 32%               | 22%               | 13%                 | 9%                    |

CONTINUE TO NEXT PAGE

Q: Which of the following do you trust as reliable sources of information about global climate change? Check all that apply.

|     |  |
|-----|--|
| 45% | Non-government scientists and educators  |
| 33% | Environmental groups   |
| 22% | Mainstream media such as U.S. newspapers, broadcasters, and online media such as CBS, ABC, NBC, CNN, Associated Press, <i>New York Times</i> |
| 22% | Scientist and Cosmos TV series host Neil deGrasse Tyson  |
| 17% | Fox News   |
| 13% | U.S. government  |
| 11% | President Obama  |
| 11% | Family, friends, or co-workers   |
| 9%  | Social media   |
| 6%  | Radio commentators Sean Hannity and/or Rush Limbaugh   |
| 5%  | Business or industry groups  |
| 5%  | Utility companies  |
| 3%  | Entertainers and celebrities   |
| 14% | Don't know / not sure  |

Q: Pope Francis recently said protecting the environment is the responsibility of all Christians. Do you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with this statement?

By groups: religious and ethnic

| Total | Choices           | Catholics | Non-Catholics | White | Black | Hispanic/Latino |
|-------|-------------------|-----------|---------------|-------|-------|-----------------|
| 38%   | Strongly agree    | 47%       | 36%           | 35%   | 42%   | 45%             |
| 39%   | Somewhat agree    | 39%       | 39%           | 42%   | 34%   | 34%             |
| 9%    | Somewhat disagree | 6%        | 9%            | 8%    | 9%    | 8%              |
| 7%    | Strongly disagree | 3%        | 8%            | 7%    | 6%    | 8%              |
| 7%    | Don't know/unsure | 5%        | 7%            | 7%    | 9%    | 6%              |
|       |                   | N= 202    | 797           | 675   | 132   | 164             |

Q: Which of the following entities do you think is best able to deal with problems attributed to global climate change? (Choose one)

| Total | Choices                                    |
|-------|--|
| 7%    | Local governments                          |
| 12%   | State governments                          |
| 29%   | Federal or national government             |
| 18%   | International bodies                       |
| 17%   | Private sector businesses or entrepreneurs |
| 18%   | Don't know / not sure                      |
|       |  |

N=

By gender and political affiliation

| M   | W   | R   | I   | D   |
|-----|-----|-----|-----|-----|
| 6%  | 7%  | 8%  | 5%  | 6%  |
| 11% | 13% | 16% | 7%  | 16% |
| 29% | 29% | 24% | 22% | 41% |
| 22% | 14% | 12% | 25% | 15% |
| 17% | 16% | 23% | 17% | 11% |
| 15% | 21% | 17% | 23% | 12% |
| 456 | 543 | 266 | 395 | 312 |

Q: Which of the following have been effective in dealing with the problems attributed to global climate change? Indicate all that apply; you may choose more than one.

| Total | Choices                                    |
|-------|--|
| 14%   | Local governments                          |
| 21%   | State governments                          |
| 25%   | Federal or national government             |
| 16%   | International bodies                       |
| 23%   | Private sector businesses or entrepreneurs |
| 39%   | Don't know / not sure                      |
|       |  |

N=

By gender and political affiliation

| M   | W   | R   | I   | D   |
|-----|-----|-----|-----|-----|
| 12% | 15% | 13% | 12% | 18% |
| 21% | 21% | 25% | 16% | 24% |
| 27% | 23% | 24% | 20% | 32% |
| 20% | 14% | 12% | 18% | 19% |
| 24% | 23% | 27% | 24% | 20% |
| 35% | 42% | 32% | 46% | 35% |
| 456 | 543 | 266 | 395 | 312 |

CONTINUE TO NEXT PAGE

Q: Whose responsibility is it to deal with the problems attributed to global climate change?  
 Indicate all that apply; you may choose more than one.

| Total | Choices                                    |
|-------|--|
| 38%   | Local governments                          |
| 43%   | State governments                          |
| 56%   | Federal or national government             |
| 39%   | International bodies                       |
| 40%   | Private sector businesses or entrepreneurs |
| 15%   | Don't know / not sure                      |
|       |  |

By gender and political affiliation

| M   | W   | R   | I   | D   |
|-----|-----|-----|-----|-----|
| 35% | 40% | 34% | 41% | 39% |
| 42% | 44% | 41% | 44% | 47% |
| 56% | 56% | 47% | 54% | 68% |
| 41% | 38% | 30% | 47% | 41% |
| 41% | 40% | 38% | 47% | 36% |
| 12% | 17% | 15% | 18% | 9%  |
| 456 | 543 | 266 | 395 | 312 |

N=

Q: Which of the following have you done to reduce carbon pollution? Indicate all that apply; you may choose more than one.

|     |   |
|-----|---|
| 33% | Bought a smaller or more fuel efficient car                                 |
| 28% | None of these   |
| 22% | Car pool or use mass transit  |
| 14% | Reduced or stop eating meat   |
| 14% | Installed or purchased alternative energy sources such as solar for my home |
| 11% | Reduced or stop eating dairy products                                       |
| 11% | Pay higher energy taxes to fund environmental efforts                       |
| 8%  | Pay higher taxes for the construction of mass transit infrastructure        |
| 6%  | Bought an electric car  |
| 7%  | Don't know / not sure   |



Q: Which of the following would you be willing to do to reduce carbon pollution? Indicate all that apply; you may choose more than one.

|     |   |
|-----|---|
| 42% | Bought a smaller or more fuel efficient car                                 |
| 40% | Installed or purchased alternative energy sources such as solar for my home |
| 34% | Car pool or use mass transit  |
| 27% | Bought an electric car  |
| 16% | Reduced or stop eating meat   |
| 15% | Pay higher energy taxes to fund environmental efforts                       |
| 14% | Reduced or stop eating dairy products                                       |
| 13% | Pay higher taxes for the construction of mass transit infrastructure        |
| 10% | None of these   |
| 9%  | Don't know / not sure   |

Q: Which of the following outdoor activities do you participate in on a regular basis? Check all that apply.

|     |                               |
|-----|-------------------------------|
| 69% | Running or walking            |
| 53% | Gardening                     |
| 29% | Fishing                       |
| 25% | Hiking                        |
| 25% | Camping                       |
| 25% | Bicycling                     |
| 17% | Bird watching                 |
| 14% | Boating / Canoeing / Kayaking |
| 11% | Hunting                       |
| 4%  | Snow skiing                   |

END OF 2015 NATIONAL TABLES

**Global Climate Change Questions 2015 - Florida**

Statewide Florida Survey of 522 Adults (general population) Conducted March 15 - 21, 2015

By the Saint Leo University Polling Institute

Margin of Error: +/- 4% with a 95% level of confidence

Some percentages may add up to more or less than 100 due to rounding

How concerned are you about global climate change? Would you say you are very concerned, somewhat concerned, somewhat not concerned, or not at all concerned about global climate change?

| Total | Choices                |
|-------|------------------------|
| 28%   | Very concerned         |
| 39%   | Somewhat concerned     |
| 18%   | Somewhat not concerned |
| 14%   | Not at all concerned   |
| 1%    | Don't know / unsure    |
|       |                        |

By gender and political affiliation

|    | M   | W   | R   | I   | D   |
|----|-----|-----|-----|-----|-----|
|    | 22% | 34% | 23% | 28% | 37% |
|    | 38% | 39% | 32% | 39% | 41% |
|    | 18% | 17% | 16% | 17% | 17% |
|    | 19% | 8%  | 28% | 14% | 3%  |
|    | 3%  | 2%  | 2%  | 1%  | 2%  |
| N= | 268 | 251 | 151 | 99  | 179 |

Some people believe global climate change is currently occurring due to human activities, while others believe global climate change is part of a natural cycle. Which of the following best reflects what you believe?

| Total | Choices   |
|-------|---|
| 16%   | Global climate change is caused entirely by human activity                    |
| 14%   | Global climate change is caused entirely by nature                            |
| 57%   | Global climate change is caused by a combination of human activity and nature |
| 8%    | I don't believe global climate change is occurring                            |
| 5%    | Don't know / unsure   |
|       |   |

By gender and political affiliation

|    | M   | W   | R   | I   | D   |
|----|-----|-----|-----|-----|-----|
|    | 16% | 16% | 13% | 12% | 21% |
|    | 15% | 13% | 20% | 7%  | 13% |
|    | 55% | 59% | 51% | 70% | 58% |
|    | 9%  | 6%  | 15% | 6%  | 4%  |
|    | 5%  | 5%  | 1%  | 5%  | 6%  |
| N= | 268 | 251 | 151 | 99  | 179 |

CONTINUE TO NEXT PAGE

Which of the following things have occurred in your state or region? Indicate all that apply; you may choose more than one.

|     |                                     |
|-----|-------------------------------------|
| 56% | Beach erosion                       |
| 49% | Warmer temperatures                 |
| 29% | Loss or threatened loss of habitats |
| 26% | Loss or threatened loss of species  |
| 25% | Unusually severe weather / storms   |
| 23% | Ocean rising or seacoast flooding   |
| 19% | Worsened air quality                |
| 18% | Worsened drought conditions         |

How strongly do you think global climate change is responsible for the following things?

|  | Very strongly | Somewhat Strongly | Not very strongly | Not at all strongly | Don't know / not sure |
|--|---------------|-------------------|-------------------|---------------------|-----------------------|
| 1. Ocean rising or seacoast flooding   | 27            | 36                | 18                | 10                  | 9                     |
| 2. Beach erosion                       | 25            | 35                | 19                | 14                  | 8                     |
| 3. Warmer temperatures                 | 32            | 36                | 15                | 12                  | 6                     |
| 4. Worsened drought conditions         | 23            | 38                | 19                | 13                  | 8                     |
| 5. Worsened air quality                | 20            | 31                | 22                | 18                  | 10                    |
| 6. Unusually severe weather / storms   | 25            | 34                | 19                | 14                  | 8                     |
| 7. Loss or threatened loss of habitats | 21            | 33                | 22                | 16                  | 9                     |
| 8. Loss or threatened loss of species  | 22            | 22                | 21                | 17                  | 9                     |

CONTINUE TO NEXT PAGE

Which of the following do you trust as reliable sources of information about global climate change? Check all that apply.

|     |   |
|-----|---|
| 47% | Non-government scientists and educators   |
| 35% | Environmental groups  |
| 22% | Mainstream media such as U.S. newspapers, broadcasters, and online media such as CBS, ABC, NBC, CNN, Associated Press, New York Times |
| 21% | Fox News  |
| 20% | Scientist and Cosmos TV series host Neil deGrasse Tyson   |
| 15% | U.S. government   |
| 12% | President Obama   |
| 12% | Family, friends, or co-workers  |
| 9%  | Social media  |
| 7%  | Radio commentators Sean Hannity and/or Rush Limbaugh  |
| 6%  | Business or industry groups   |
| 6%  | Utility companies   |
| 3%  | Entertainers and celebrities  |
| 12% | Don't know / not sure   |

Pope Francis recently said protecting the environment is the responsibility of all Christians. Do you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with this statement?

|     |                   |
|-----|-------------------|
| 41% | Strongly agree    |
| 33% | Somewhat agree    |
| 11% | Somewhat disagree |
| 7%  | Strongly disagree |
| 9%  | Don't know unsure |

[Additional demographics, related to results above. Our sample reflected these faiths.]

|     |  |
|-----|--|
| 23% | Catholic   |
| 22% | Protestant (Baptist, Lutheran, Congregational, Presbyterian) |
| 24% | Christian (non-denominational)                               |
| <1% | Greek Orthodox   |
| 4%  | Jewish   |
| 1%  | Buddhist   |
| <1% | Muslim   |
| <1% | Latter Day Saint / Mormon                                    |
| 5%  | Other  |
| 19% | No preference / no religious affiliation                     |

CONTINUE TO NEXT PAGE

Which of the following entities do you think is best able to deal with problems attributed to global climate change?

| Total | Choices                                    | By gender and political affiliation |     |     |     |     |
|-------|--|-------------------------------------|-----|-----|-----|-----|
|       |  | M                                   | W   | R   | I   | D   |
| 9%    | Local governments                          | 7%                                  | 10% | 9%  | 9%  | 8%  |
| 12%   | State governments                          | 7%                                  | 16% | 16% | 7%  | 12% |
| 28%   | Federal or national government             | 27%                                 | 28% | 19% | 22% | 38% |
| 21%   | International bodies                       | 28%                                 | 13% | 19% | 17% | 22% |
| 13%   | Private sector businesses or entrepreneurs | 15%                                 | 10% | 21% | 17% | 2%  |
| 19%   | Don't know / not sure                      | 16                                  | 22  | 15  | 27  | 17  |
|       |  | N =                                 |     |     |     |     |

Which of the following have been effective in dealing with the problems attributed to global climate change? Indicate all that apply; you may choose more than one.

| Total | Choices                                    | By gender and political affiliation |     |     |     |     |
|-------|--|-------------------------------------|-----|-----|-----|-----|
|       |  | M                                   | W   | R   | I   | D   |
| 19%   | Local governments                          | 13%                                 | 26% | 13% | 19% | 21% |
| 24%   | State governments                          | 19%                                 | 30% | 23% | 13% | 29% |
| 26%   | Federal or national government             | 22%                                 | 30% | 25% | 16% | 31% |
| 19%   | International bodies                       | 23%                                 | 14% | 10% | 10% | 26% |
| 20%   | Private sector businesses or entrepreneurs | 20%                                 | 21% | 26% | 20% | 10% |
| 36%   | Don't know / not sure                      | 37                                  | 34  | 38  | 22  | 31  |
|       |  | N =                                 |     |     |     |     |

Whose responsibility is it to deal with the problems attributed to global climate change? Indicate all that apply; you may choose more than one.

| Total | Choices                                    | By gender and political affiliation |     |     |     |     |
|-------|--|-------------------------------------|-----|-----|-----|-----|
|       |  | M                                   | W   | R   | I   | D   |
| 39%   | Local governments                          | 36%                                 | 43% | 34% | 19% | 36% |
| 43%   | State governments                          | 37%                                 | 49% | 37% | 19% | 44% |
| 53%   | Federal or national government             | 52%                                 | 54% | 43% | 21% | 58% |
| 44%   | International bodies                       | 48%                                 | 39% | 31% | 19% | 47% |
| 36%   | Private sector businesses or entrepreneurs | 36%                                 | 36% | 35% | 17% | 31% |
| 17%   | Don't know / not sure                      | 16                                  | 17  | 22  | 5   | 12  |
|       |  | N =                                 |     |     |     |     |

CONTINUE TO NEXT PAGE

Which of the following have you done to do to reduce carbon pollution? Indicate all that apply; you may choose more than one.

|     |   |
|-----|---|
| 34% | Bought a smaller or more fuel efficient car                                 |
| 24% | Car pool or use mass transit  |
| 14% | Reduced or stop eating meat   |
| 14% | Installed or purchased alternative energy sources such as solar for my home |
| 12% | Pay higher taxes for the construction of mass transit infrastructure        |
| 11% | Pay higher energy taxes to fund environmental efforts                       |
| 10% | Reduced or stop eating dairy products                                       |
| 6%  | Bought an electric car  |
| 27% | None of these   |
| 7%  | Don't know / not sure   |

Which of the following would you be willing to do to reduce carbon pollution? Indicate all that apply; you may choose more than one.

|      |   |
|------|---|
| 41 % | Installed or purchased alternative energy sources such as solar for my home |
| 40 % | Bought a smaller or more fuel efficient car                                 |
| 34 % | Car pool or use mass transit  |
| 24 % | Bought an electric car  |
| 15 % | Reduced or stop eating meat   |
| 15 % | Pay higher taxes for the construction of mass transit infrastructure        |
| 14 % | Pay higher energy taxes to fund environmental efforts                       |
| 13 % | Reduced or stop eating dairy products                                       |
| 13 % | None of these   |
| 9 %  | Don't know / not sure   |

Which of the following outdoor activities do you participate in on a regular basis? Check all that apply.

|     |                               |
|-----|-------------------------------|
| 63% | Running or walking            |
| 44% | Gardening                     |
| 31% | Bicycling                     |
| 29% | Fishing                       |
| 20% | Boating / Canoeing / Kayaking |
| 17% | Hiking                        |
| 16% | Camping                       |
| 14% | Bird watching                 |
| 8%  | Hunting                       |
| <1% | Snow skiing                   |

END OF TABLES

## NATIONAL SURVEY DEMOGRAPHICS

| Conservative/<br>Moderate/Liberal | November<br>2017 | February<br>2018 | May<br>2018 | August<br>2018 | October<br>2018 | February<br>2019 |
|-----------------------------------|------------------|------------------|-------------|----------------|-----------------|------------------|
| Very conservative                 | 13.4             | 12.2             | 13.9        | 19.8           | 11.2            | 14.3             |
| Somewhat<br>conservative          | 24.0             | 22.6             | 22.6        | 19.4           | 20.2            | 22.1             |
| Moderate                          | 32.5             | 34.9             | 35.9        | 31.0           | 33.4            | 33.6             |
| Somewhat liberal                  | 15.2             | 14.2             | 15.0        | 15.5           | 12.1            | 16.6             |
| Very liberal                      | 8.8              | 11.2             | 9.0         | 9.6            | 7.6             | 10.1             |
| Unsure                            | 6.1              | 4.9              | 3.6         | 4.7            | 15.4            | 3.3              |

| Age        | November<br>2017 | February<br>2018 | May<br>2018 | August<br>2018 | October<br>2018 | February<br>2019 |
|------------|------------------|------------------|-------------|----------------|-----------------|------------------|
| 18-25      | 6.8              | 5.5              | 5.0         | 7.4            | 11.2            | 5.1              |
| 26-35      | 17.4             | 20.1             | 21.3        | 26.4           | 24.2            | 13.0             |
| 36-45      | 17.0             | 22.5             | 19.0        | 20.6           | 20.5            | 15.8             |
| 46-55      | 19.4             | 18.0             | 18.0        | 15.1           | 15.9            | 19.4             |
| 56-65      | 27.3             | 21.5             | 22.9        | 16.9           | 15.9            | 34.2             |
| Over<br>65 | 12.1             | 12.4             | 13.8        | 13.9           | 12.3            | 12.5             |

| How Religious?       | August 2018 | October 2018 | February 2019 |
|----------------------|-------------|--------------|---------------|
| Very religious       | 23.8        | 19.6         | 18.3          |
| Somewhat religious   | 35.2        | 32.9         | 37.3          |
| Not very religious   | 16.7        | 19.5         | 20.4          |
| Not at all religious | 22.7        | 23.6         | 21.7          |
| Unsure               | 1.6         | 4.5          | 2.3           |

| <b>Income</b>                    | <b>September 2017</b> | <b>November 2017</b> | <b>February 2018</b> | <b>May 2018</b> | <b>August 2018</b> | <b>October 2018</b> | <b>February 2019</b> |
|----------------------------------|-----------------------|----------------------|----------------------|-----------------|--------------------|---------------------|----------------------|
| Less than \$10,000               | 3.6                   | 3.8                  | 3.6                  | 2.9             | 4.6                | 4.4                 | 2.3                  |
| \$10,000 to less than \$40,000   | 21.4                  | 21.4                 | 19.5                 | 18.9            | 21.1               | 24.1                | 18.9                 |
| \$40,000 to less than \$75,000   | 25.0                  | 28.5                 | 26.9                 | 24.6            | 23.6               | 25.2                | 25.2                 |
| \$75,000 to less than \$100,000  | 17.1                  | 17.5                 | 19.4                 | 20.5            | 19.5               | 18.8                | 17.6                 |
| \$100,000 to less than \$150,000 | 18.9                  | 18.5                 | 19.1                 | 20.0            | 21.3               | 13.5                | 19.4                 |
| \$150,000 to less than \$200,000 | 7.5                   | 5.3                  | 6.7                  | 6.8             | 4.8                | 5.9                 | 8.0                  |
| \$200,000 or more                | 5.3                   | 4.0                  | 4.2                  | 5.6             | 4.1                | 5.3                 | 7.3                  |
| Prefer not to disclose           | 1.3                   | 1.0                  | 0.8                  | 0.7             | 1.0                | 2.9                 | 1.3                  |

| <b>Political Party Affiliation</b>           | <b>November 2017</b> | <b>February 2018</b> | <b>May 2018</b> | <b>August 2018</b> | <b>October 2018</b> | <b>February 2019</b> |
|--|----------------------|----------------------|-----------------|--------------------|---------------------|----------------------|
| Republican                                   | 27.0                 | 23.6                 | 27.1            | 27.1               | 24.9                | 27.0                 |
| Democratic                                   | 30.8                 | 30.2                 | 31.1            | 31.5               | 24.9                | 31.2                 |
| Unaffiliated/<br>Independent /<br>Undeclared | 35.6                 | 40.6                 | 39.7            | 34.6               | 26.9                | 37.7                 |
| Some other party                             | 1.6                  | 1.2                  | 0.3             | 2.5                | 8.7                 | 2.0                  |
| Unsure                                       | 5.0                  | 3.4                  | 1.9             | 4.3                | 14.7                | 2.1                  |



| <b>Gender</b> | <b>November 2017</b> | <b>February 2018</b> | <b>May 2018</b> | <b>August 2018</b> | <b>October 2018</b> | <b>February 2019</b> |
|---------------|----------------------|----------------------|-----------------|--------------------|---------------------|----------------------|
| Male          | 49.8                 | 50.6                 | 50.0            | 47.4               | 50.0                | 50.0                 |
| Female        | 50.2                 | 49.4                 | 50.0            | 52.6               | 50.0                | 50.0                 |

| <b>Education</b>                    | <b>November 2017</b> | <b>February 2018</b> | <b>May 2018</b> | <b>August 2018</b> | <b>October 2018</b> | <b>February 2019</b> |
|-------------------------------------|----------------------|----------------------|-----------------|--------------------|---------------------|----------------------|
| Less than High School               | 6.2                  | 3.8                  | 4.1             | 6.6                | 6.4                 | 3.5                  |
| High School / GED                   | 8.3                  | 8.7                  | 8.0             | 9.5                | 11.0                | 8.7                  |
| Associate Degree                    | 8.2                  | 7.6                  | 6.7             | 7.4                | 8.7                 | 9.7                  |
| Some college / technical school     | 20.6                 | 20.2                 | 19.4            | 22.2               | 21.9                | 21.9                 |
| College / technical school graduate | 36.6                 | 36.1                 | 39.8            | 32.7               | 31.2                | 34.2                 |
| Postgraduate or professional degree | 19.8                 | 23.3                 | 21.9            | 21.2               | 20.3                | 21.7                 |
| Prefer not to disclose              | 0.3                  | 0.2                  | 0.1             | 0.4                | ---                 | ---                  |

| <b>Hispanic, Latin American, Puerto Rican, Cuban or Mexican</b> | <b>September 2017</b> | <b>November 2017</b> | <b>February 2018</b> | <b>May 2018</b> | <b>August 2018</b> | <b>October 2018</b> | <b>February 2019</b> |
|---|-----------------------|----------------------|----------------------|-----------------|--------------------|---------------------|----------------------|
| Yes   | 16.3                  | 16.5                 | 16.4                 | 16.5            | 16.5               | 16.3                | 16.3                 |

| <b>Ethnicity<br/>(Among Non-Hispanics)</b> | <b>September<br/>2017</b> | <b>November<br/>2017</b> | <b>February<br/>2018</b> | <b>May<br/>2018</b> | <b>August<br/>2018</b> | <b>October<br/>2018</b> | <b>February<br/>2019</b> |
|--|---------------------------|--------------------------|--------------------------|---------------------|------------------------|-------------------------|--------------------------|
| White                                      | 64.8                      | 64.0                     | 66.3                     | 70.1                | 65.0                   | 64.2                    | 68.2                     |
| Black, African-American                    | 12.7                      | 12.5                     | 11.2                     | 12.6                | 12.7                   | 12.6                    | 12.6                     |
| Asian                                      | 6.0                       | 5.4                      | 5.1                      | 0.1                 | 4.8                    | 5.1                     | 1.6                      |
| Aleutian,<br>Eskimo or<br>American Indian  | 0.2                       | 0.9                      | 0.5                      | 0.1                 | 0.2                    | 0.9                     | 0.4                      |
| Other                                      | 0.6                       | 0.6                      | 0.6                      | 0.6                 | 0.6                    | 0.4                     | 0.4                      |
| Native Hawaiian<br>or Pacific<br>Islander  | 0.6                       | 0.0                      | 0.1                      | 0.1                 | 0.2                    | 0.6                     | 0.4                      |
| Two or more<br>races                       | ---                       | ---                      | ---                      | ---                 | ---                    | ---                     | ---                      |
| Refused                                    | ---                       | ---                      | ---                      | ---                 | ---                    | ---                     | ---                      |
| Don't know                                 | 0.6                       | ---                      | ---                      | ---                 | ---                    | ---                     | ---                      |

| <b>Religion<br/>Followed</b>   | <b>September<br/>2017</b> | <b>November<br/>2017</b> | <b>February<br/>2018</b> | <b>May<br/>2018</b> | <b>August<br/>2018</b> | <b>October<br/>2018</b> | <b>February<br/>2019</b> |
|--|---------------------------|--------------------------|--------------------------|---------------------|------------------------|-------------------------|--------------------------|
| Catholic   | 29.7                      | 29.5                     | 30.4                     | 31.1                | 31.0                   | 20.7                    | 28.0                     |
| Protestant<br>(Baptist,<br>Lutheran,<br>Congregational,<br>Presbyterian) | 19.9                      | 18.3                     | 16.7                     | 19.9                | 17.1                   | 14.4                    | 20.6                     |
| Christian (non-<br>denominational)                                       | 18.4                      | 19.3                     | 19.5                     | 20.3                | 19.5                   | 20.7                    | 18.0                     |
| Greek<br>Orthodox  | 0.8                       | 1.3                      | 1.1                      | 0.7                 | 0.8                    | 1.3                     | 1.8                      |
| Jewish   | 3.2                       | 3.1                      | 3.0                      | 3.2                 | 2.9                    | 3.4                     | 3.5                      |
| Buddhist   | 0.6                       | 1.5                      | 0.4                      | 0.8                 | 0.9                    | 2.2                     | 0.9                      |
| Muslim   | 0.3                       | 0.2                      | 0.6                      | 0.7                 | 1.2                    | 1.3                     | 0.9                      |
| Latter Day<br>Saints /<br>Mormon   | 0.4                       | 0.7                      | 0.4                      | 0.7                 | 0.7                    | 0.9                     | 0.8                      |
| Other  | 2.7                       | 4.0                      | 4.3                      | 3.6                 | 3.5                    | 6.5                     | 3.7                      |
| No preference  | 21.5                      | 20.5                     | 22.4                     | 17.3                | 20.8                   | 24.3                    | 19.9                     |
| Don't know /<br>unsure   | 2.5                       | 1.6                      | 1.3                      | 1.7                 | 1.6                    | 4.2                     | 1.9                      |

## APPENDIX

---

### INTERPRETATION OF AGGREGATE RESULTS

The computer processed data for this survey are presented in the following frequency distributions. It is important to note that the wordings of the variable labels and value labels in the computer-processed data are largely abbreviated descriptions of the Questionnaire items and available response categories.

The frequency distributions include the category or response for the question items. Responses deemed not appropriate for classification have been grouped together under the “Other” code.

The “NA” category label refers to “No Answer” or “Not Applicable.” This code is also used to classify ambiguous responses. In addition, the “DK/RF” category includes those respondents who did not know their answer to a question or declined to answer it. In many of the tables, a group of responses may be tagged as “Missing” – occasionally, certain individual’s responses may not be required to specific questions and thus are excluded. Although when this category of response is used, the computations of percentages are presented in two (2) ways in the frequency distributions: 1) with their inclusion (as a proportion of the total sample), and 2) their exclusion (as a proportion of a sample sub-group).

Each frequency distribution includes the absolute observed occurrence of each response (i.e. the total number of cases in each category). Immediately adjacent to the right of the column of absolute frequencies is the column of relative frequencies. These are the percentages of cases falling in each category response, including those cases designated as missing data. To the right of the relative frequency column is the adjusted frequency distribution column that contains the relative frequencies based on the legitimate (i.e. non-missing) cases. That is, the total base for the adjusted frequency distribution excludes the missing data. For many Questionnaire items, the relative frequencies and the adjusted frequencies will be nearly the same. However, some items that elicit a sizable number of missing data will produce quite substantial percentage differences between the two columns of frequencies. The careful analyst will cautiously consider both distributions.

The last column of data within the frequency distribution is the cumulative frequency distribution (Cum Freq.). This column is simply an adjusted frequency distribution of the sum of all previous categories of response and the current category of response. Its primary usefulness is to gauge some ordered or ranked meaning.