

The Francis Effect

How Pope Francis changed the conversation about global warming

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The Francis Effect: How Pope Francis Changed the Conversation About Global Warming

Introduction

This report is based on findings from a nationally representative panel survey – *Climate Change in the American Mind* – conducted by the Yale Program on Climate Change Communication (<http://environment.yale.edu/climate-communication>) and the George Mason University Center for Climate Change Communication (<http://www.climatechangecommunication.org>). First interview dates (n=1,273 adults): February 27 – March 10, 2015. Final interview dates (n=905): September 30 – October 19, 2015. Average margin of error: +/- 3 percentage points at the 95% confidence level. The research was funded by the 11th Hour Project, the Energy Foundation, the Grantham Foundation, the V.K. Rasmussen Foundation, the Sierra Club, and The Nature Conservancy.

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The Francis Effect: How Pope Francis Changed the Conversation About Global Warming

Preface

In June of 2015, Pope Francis issued an encyclical titled *Laudato Si': On Care for Our Common Home*. This book-length letter was intended to draw Christians into a dialogue with one another, and with all of humanity, about the implications of climate change and other forms of environmental destruction. In the encyclical, Francis presented a strong moral call to action: people and nations should come together and take the actions necessary to protect the Earth – and thereby protect the world's poorest and most vulnerable people from climate change.

In September, Pope Francis visited the United States for five days to meet with President Obama, address a joint session of the U.S. Congress, address the General Assembly of the United Nations, and meet, talk, pray and hold Mass with ordinary Americans. During several of these events, he urged the nations of the world to come together to address climate change. His views were covered broadly in American news media.

Between the encyclical release and Pope's visit, the Catholic Climate Covenant and the U.S. Conference of Catholic Bishops widely disseminated the message of *Laudato Si'*. They held two press conferences at the National Press Club, and five diocesan press events, which generated more than 3,000 news stories and more than 500 downloads of a free parish program.

Given the Pope's stature as a global religious leader, and the large number of Catholic Americans, we decided to assess whether the Pope's teachings have had an influence on Americans', particularly Catholics', understanding, opinions, and dialogue about climate change.

This report examines a large, representative cohort of American adults who were first surveyed in spring of 2015, and then again in early October – a within-subject study of changes in public responses. In the two surveys, we assessed the same respondents' global warming beliefs, attitudes, risk perceptions, behaviors and policy preferences, and their views of Pope Francis – so that we could determine who, if anyone, had changed their opinions, and if so, in what ways.

The report focuses on change among American adults nationally, and within the three largest groups of American Christians – Catholics, non-evangelical Protestants, and born again/Evangelical Christians. We anticipated that any effect of the Pope's teachings on global warming would be most evident among Catholics, and were therefore primarily interested in contrasting Catholics' responses to those of Americans overall. The report also focuses on non-evangelical Protestants and born again/Evangelicals – but does not focus on changes among people of other faiths, or non-religious Americans, due to sample size limitations. Because of their relatively large proportions in the population, we were able to reliably assess the views of Protestants and Evangelicals, but not people of other faiths, or non-religious Americans.

In this report we conclude that, over the past six months, Americans – especially Catholic Americans – became more engaged in and concerned about global warming. Furthermore, our findings suggest that the Pope's teachings about global warming contributed to an increase in public engagement on the issue, and influenced the conversation about global warming in America; we refer to this as *The Francis Effect*.

It is important to note that *The Francis Effect* may fade or grow over time. Indeed, although publication of an Encyclical is a significant event in the Catholic Church, the full impact of the Pope's teachings may continue to unfold over time, especially if the Pope continues to speak on the topic, if Bishops, Cardinals and priests amplify the teachings in their dioceses, and if Catholics talk to each other and to non-Catholic friends about the issue.

Assignment to Religion Category

Assignment to the religion categories used in this report is based on responses to two survey questions: (1) What is your religion? (2) Would you describe yourself as "born again" or evangelical? All respondents who identified as Catholic in the first question were coded as "Catholic" for this report (n=222). Respondents who identified as Protestant or Baptist in item 1 but did *not* identify as born again or evangelical in the second question were coded as "Protestant (Non-Evangelical)" (n=171). Respondents who identified as Protestant, Baptist, Pentecostal, or Other Christian in the first question and also *did* identify as born again or evangelical in the second question were coded as "Evangelical" (n=225).

The total sample size (n=905) is too small to provide reliable estimates of the opinions of a number of other, smaller, religious groups in the U.S., including Mormons, Eastern Orthodox Christians, Unitarian Universalists, Jews, Muslims, Hindus, and Buddhists, as well as others with no religious affiliation. For this reason, they are not analyzed in the report.

Key Findings

From Spring to Fall of 2015 (before the Pope's encyclical to after his visit to the U.S.)...

Americans Developed a More Positive View of the Pope

- More Americans (+7 percentage points), especially Catholics (+13 points), have a very positive opinion of the Pope.
- Trust in the Pope as a source of information about global warming increased by among Americans overall (+11 points), and among Catholics (+6 points).

Global Warming Became a More Salient Issue

- More Americans (+4 points) and more Catholics (+10 points) say they now hear about global warming in the media at least once a month or more frequently.
- Almost half (45%) of all Americans, and over half of Catholics (56%) say they have seen, read or heard media coverage about the Pope's views on global warming in the past few months.
- Awareness of the Pope's encyclical increased among all Americans (+14 points) and among Catholics (+16 points).
- Nearly 1 in 10 Americans (9%) and nearly 2 in 10 Catholics (18%) said that the Pope's views on global warming were discussed in their place of worship.
- Americans overall (+6 points), and Catholics (+5 points), become more likely to discuss global warming with their friends and family often or occasionally.

Many Americans Say the Pope's Views on Global Warming Influenced Their Own Views

- Many Americans (17%) and Catholics (35%) say the Pope's position on global warming has influenced their views about the issue.
- Of those Americans who say they've been influenced, half (50%) say the Pope's position on global warming made them more concerned about global warming, while fewer than 1 in 10 (8%) say they became less concerned. Among Catholics, the proportions are 53 percent, and 8 percent, respectively.

Americans Became More Concerned About Global Warming

- More Americans overall (+4 points), and more Catholics (+8 points), had thought a lot or some about global warming.
- More Americans overall (+6 points), and more Catholics (+13 points), became very or extremely sure that global warming is happening. There was no change, however, in the number of Americans who believe human activity is causing global warming.

- More Americans overall and American Catholics think that people in developing countries (+15 and +17 points, respectively) and the world's poor (+12 and +20 points, respectively) will be harmed by global warming a great deal or a moderate amount.
- More Americans (+9 points), and more Catholics (+13 points), think global warming will harm people in the United States a great deal or a moderate amount.
- More Americans overall, and more Catholics, have come to believe that Americans will be harmed by global warming sooner rather than later.
- More Americans (+8 points) and more Catholics (+11 points) have become worried about global warming.
- More Americans (+7 points) and more Catholics (+8 points) say that the issue of global warming has become very or extremely important to them personally.
- More Americans (+5 points) and more Catholics (+7 points) say they have personally experienced the effects of global warming.

More Americans Came to See Global Warming as a Moral Issue

- More Americans and more Catholics came to see global warming as a moral issue (+6 and +8 points, respectively) or a religious issue (+4 and +7 points, respectively).
- More Americans overall also came to see global warming as a social justice/fairness issue (+8 points), and a poverty issue (+5 points).

Support for an American Response to Global Warming May Have Increased, But Only Slightly

- More Americans (+7 points) feel that America should reduce its greenhouse gas emissions regardless of what other countries do.
- Slightly more Americans (+ 2 points) support funding research into renewable energy sources, such as solar and wind power, although fewer Americans (-3 points) support setting strict carbon dioxide emission limits on coal-fired power plants.

Conclusion

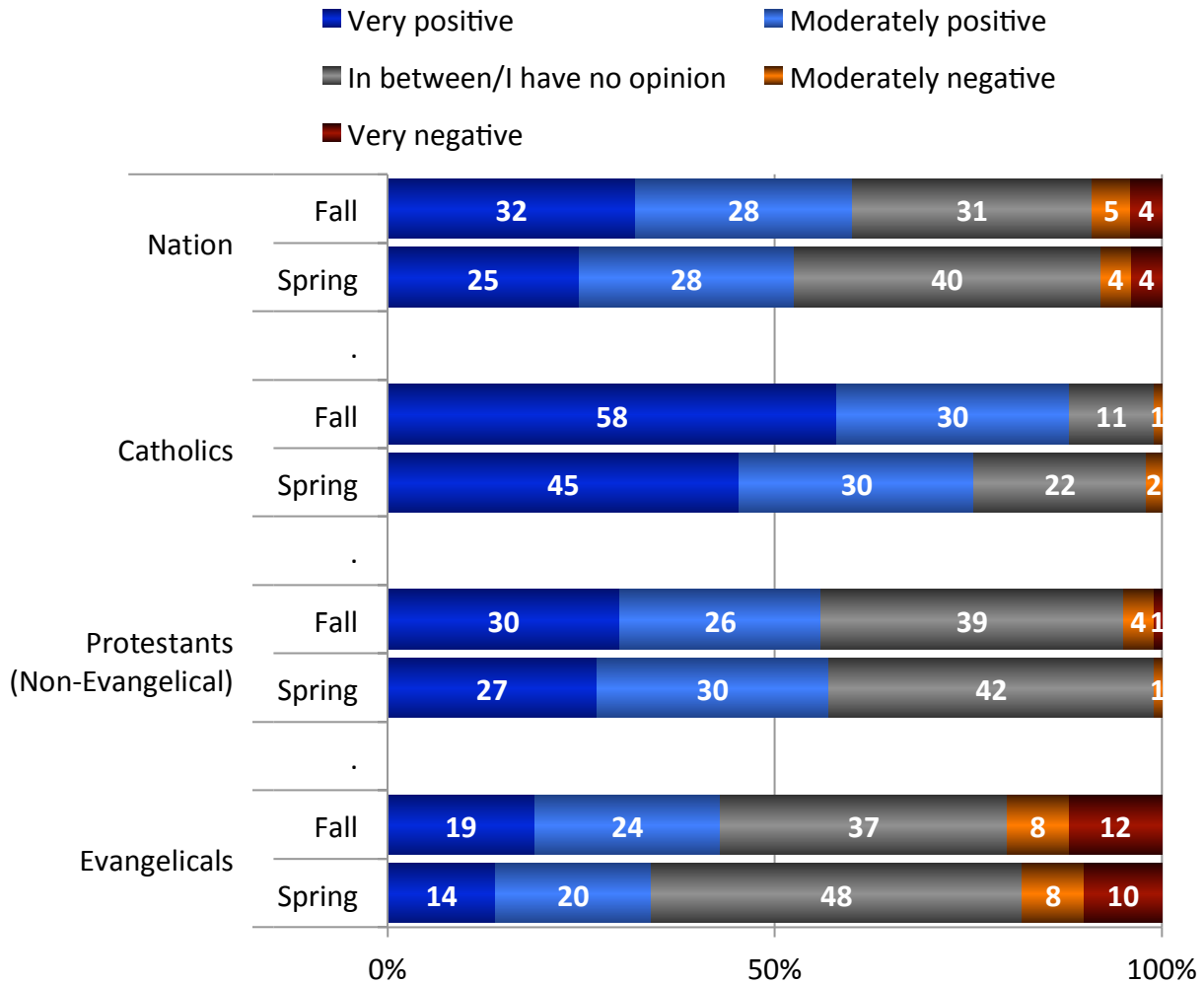
- Between spring and fall of 2015, Americans – especially Catholic Americans – have become modestly more engaged in and concerned about global warming. Our panel survey findings suggest that the Pope's teachings about global warming contributed to greater public engagement in the issue.

PART I: VIEWS OF POPE FRANCIS

Most Americans Have Positive Views of Pope Francis

- Sixty percent of Americans view the Pope positively, an increase of 7 percentage points since the spring of 2015.
- Nearly 9 out of 10 Catholics (88%) view the Pope positively, an increase of 13 percentage points since the spring.

Do you have a positive or negative opinion of the Pope?



Base: Americans 18+ (n=905). March 2015 & Oct. 2015.



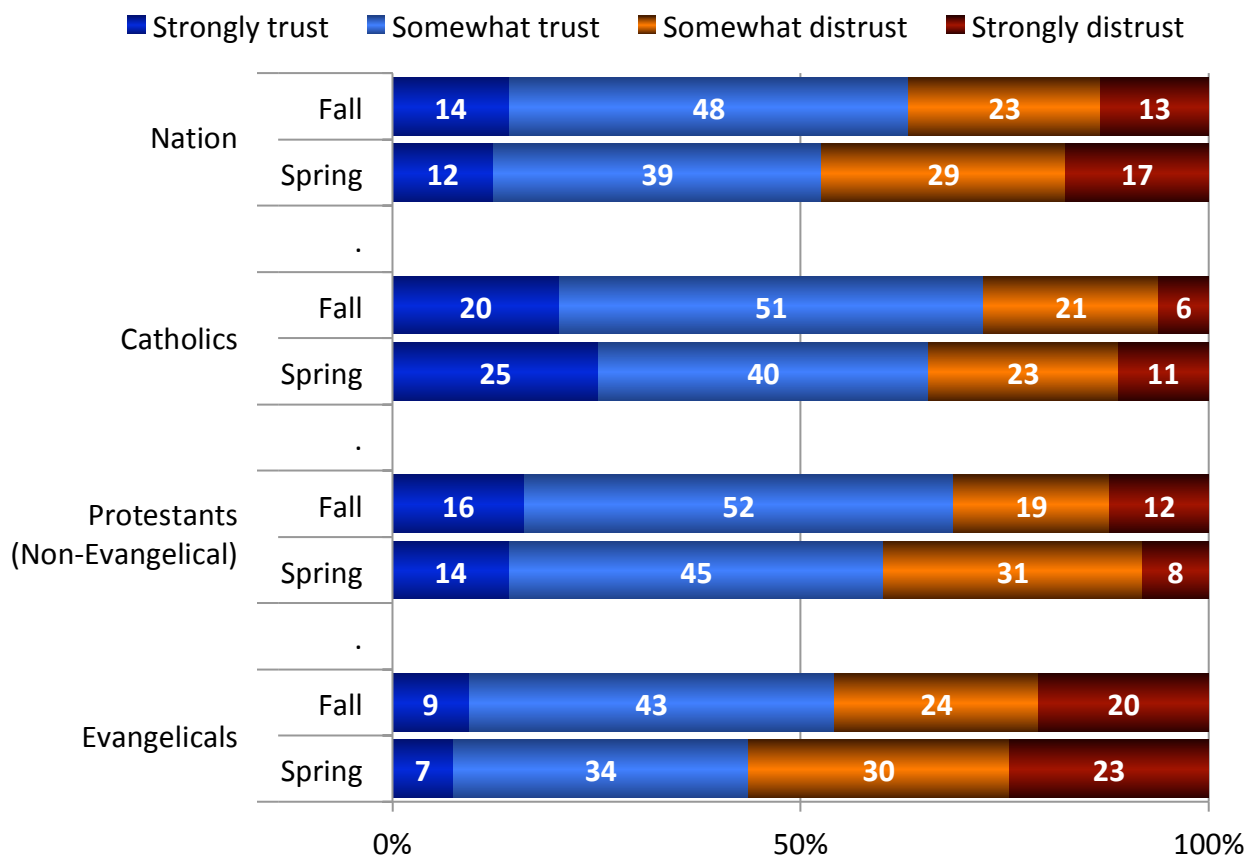
Americans had generally positive views of the Pope in the spring, with 53 percent of Americans saying they had moderately or very positive opinions. By the fall, the proportion who viewed him very positively had grown by 7 percentage points, and those with no opinion had decreased by 9 percentage points.

The shift toward strongly positive views of Pope Francis was greatest among Catholics, with an increase in the proportion with very positive opinions of 13 percentage points, increasing from 45 percent to 58 percent.

A Majority of Americans Trust Pope Francis as a Source of Information on Global Warming

- More than 6 in 10 Americans (62%) trust the Pope as a source of information about global warming, an increase of 11 points since the spring.
- Close to three-quarters of Catholics (72%) trust the Pope as a source of information on the topic, an increase of 6 points since the spring.

How much do you trust or distrust the Pope as a source of information about global warming?



Base: Americans 18+ (n=905). March 2015 & Oct. 2015.



Trust in Pope Francis as a source of information on global warming has increased: In the spring, half of Americans (51%) trusted him on the topic; by the fall, the proportion had increased by 11 points (62%).

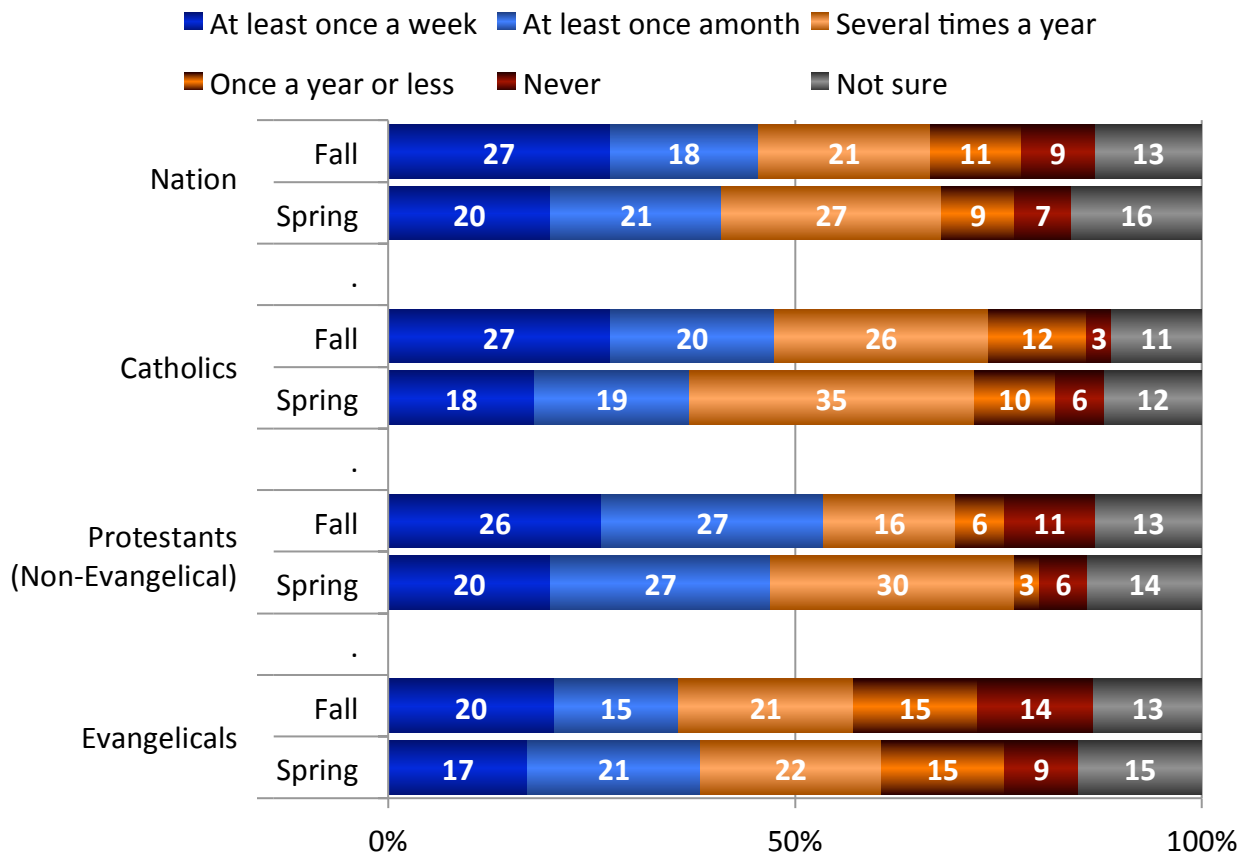
Among Catholics, the largest changes were toward "somewhat" trusting the Pope as a source, which increased by 11 percentage points. The proportion who did not trust him decreased by 7 percentage points, yet the proportion who strongly trusted him decreased by 5 percentage points.

PART II: ISSUE SALIENCE

Americans Are Hearing More about Global Warming in the News

- More Americans (+4 points) and more Catholics (+10 points) now say they hear about global warming in the media at least once a month or more frequently.

About how often do you hear about global warming in the media (TV, movies, radio, newspapers/news websites, magazines, etc.)?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

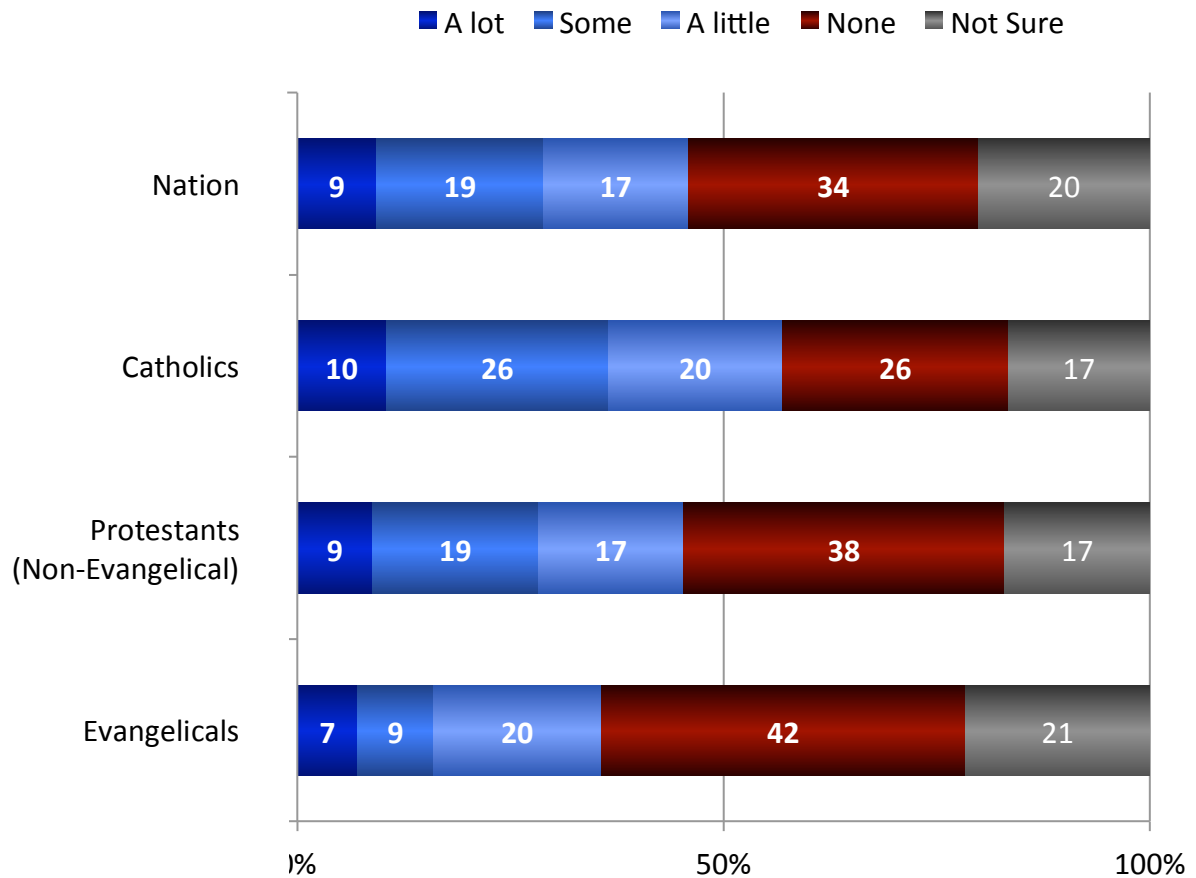


Americans are hearing about global warming more frequently in the news: The proportion who hear about global warming at least weekly has increased from 20 to 27 percent. This increase is greatest among Catholics: In the fall, 27 percent said they heard about the topic at least weekly, as compared to 18 percent in the spring.

Nearly Half of Americans Have Heard About the Pope's Views on Global Warming in the Media

- Almost half (45%) of all Americans, and over half of Catholics (56%) say they have seen, read or heard media coverage about the Pope's views on global warming in the past few months.

How much media coverage, if any, about Pope Francis' views on the following have you seen, read, or heard in the past few months?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



Only a third of Americans say they haven't heard any coverage of Pope Francis' views on global warming in the past few months. About one in ten say they've heard "a lot" (9%), one in five say they've heard "some" (19%), and one in six say they've heard "a little" (17%).

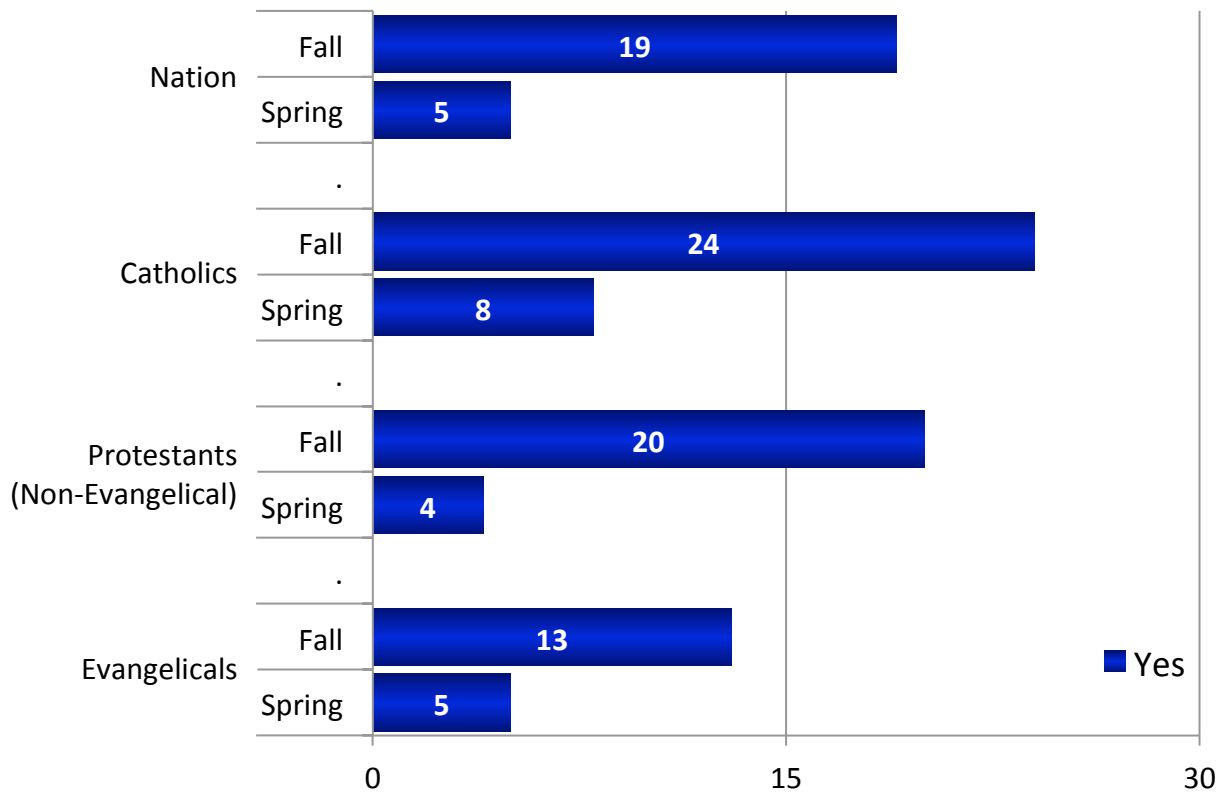
One in ten Catholics (10%) has heard "a lot" of coverage of the Pope's views on global warming, and another quarter (26%) have heard "some."

Awareness of the Pope's Encyclical Increased

- Awareness of the Pope's encyclical increased among all Americans (+14 points) and among Catholics (+16 points).

Spring Question: *This upcoming summer, Pope Francis is expected to release an Encyclical (a letter sent to all Catholic Bishops worldwide), which will say that addressing global warming is a high priority for the Catholic Church. Before you read about it in this question, were you aware of this Papal Encyclical about global warming?*

Fall Question: *This summer, Pope Francis released an Encyclical (a letter released to the public and sent to all Catholic Bishops worldwide)... Before you read about it in this question, were you aware of this Papal Encyclical about global warming?*



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



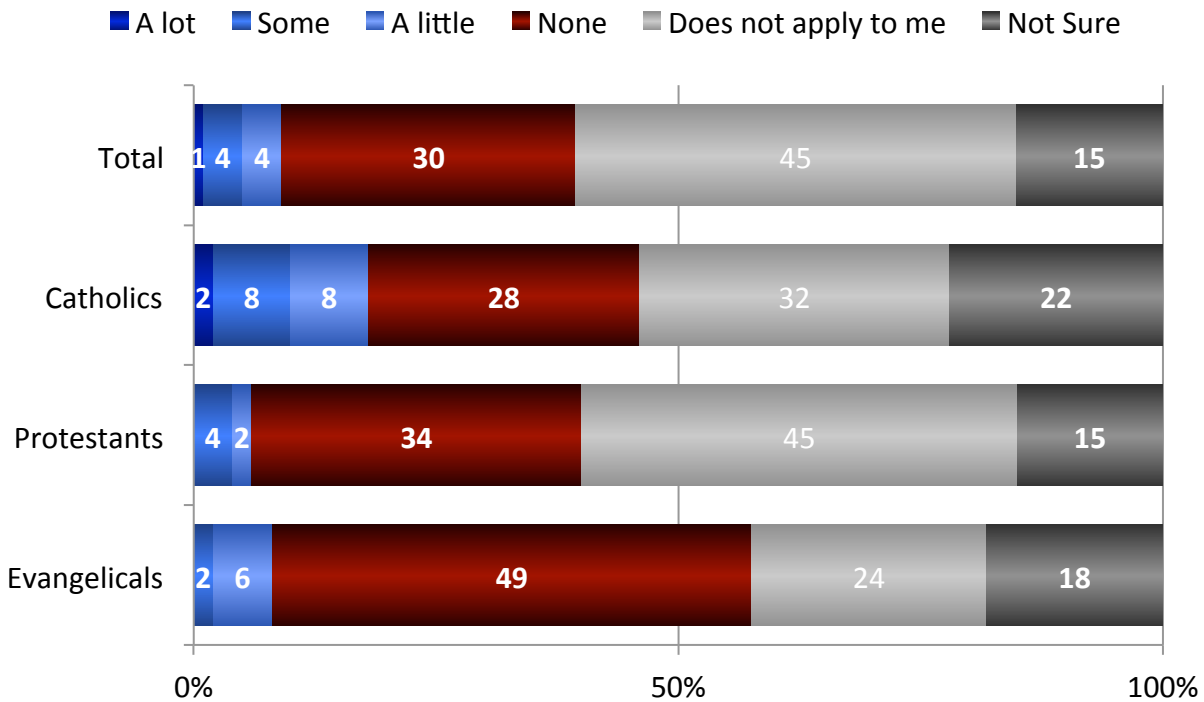
In the spring of 2015, only 5 percent of Americans were aware that the Pope was preparing to release an Encyclical on climate change and the environment. By the fall, 19 percent had heard about the Encyclical, an increase of 14 percentage points.

A quarter of Catholics had heard about the Encyclical by the fall, an increase of 16 percentage points.

Many Americans Have Heard the Pope's Views on Global Warming Discussed in their Place of Worship

- Nearly 1 in 10 Americans (9%) and nearly 2 in 10 Catholics (18%) said that the Pope's views on global warming were discussed in their place of worship.
- Among Catholics who attend services, a quarter (26%) have heard at least "a little" discussion of the Pope's views on global warming at their place of worship.

How much, if at all, have the Pope's views on global warming been discussed in your place of worship?



Base: Americans 18+ (n=905). March 2015 & Oct. 2015.

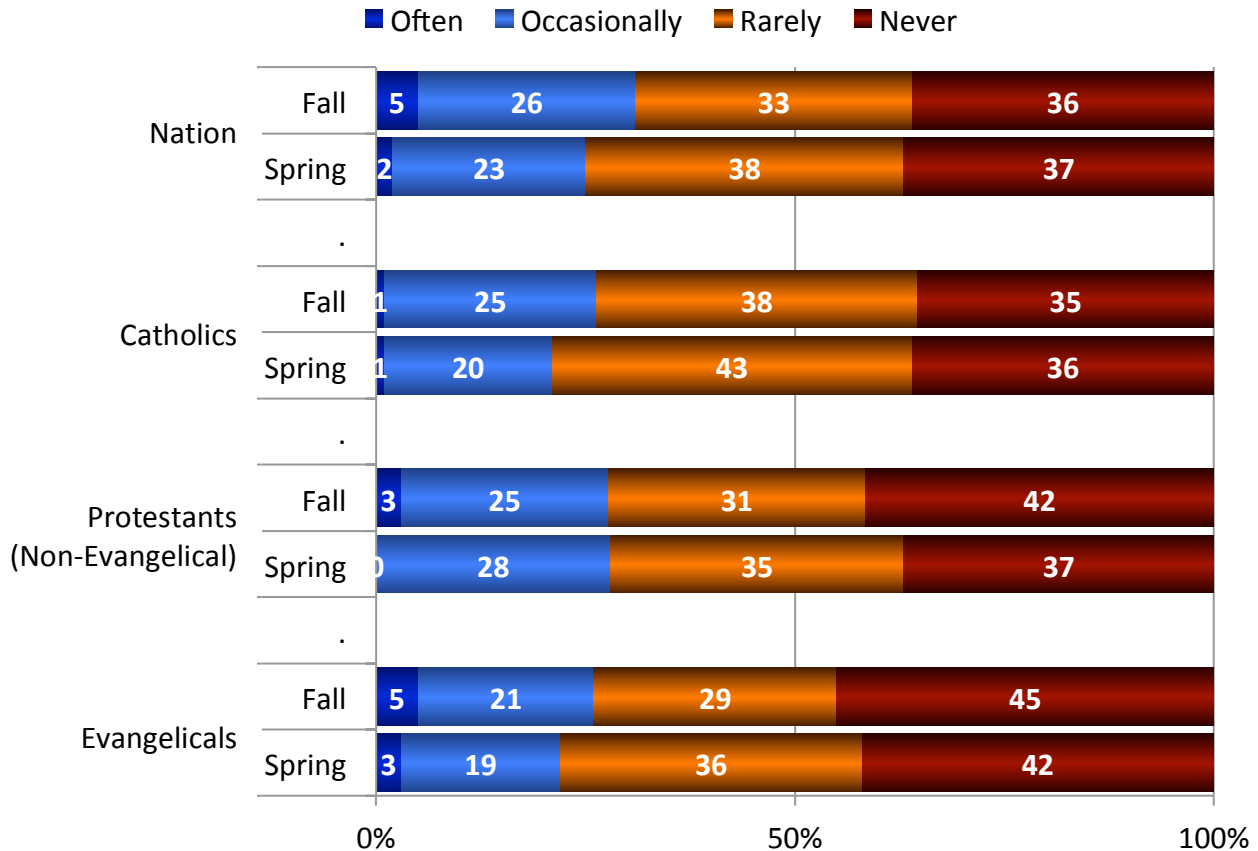


Nearly 1 in 10 of Americans have heard the Pope's views on global warming discussed in their place of worship, at least a little (9%). Among Catholics, 18 percent have heard his views at church.

Discussions of Global Warming Are Occurring More Frequently

- Americans overall (+6 points), and Catholics (+5 points), have become more likely to discuss global warming with their friends and family often or occasionally.
- About three in ten Americans (31%) and a quarter of Catholics (26%) now discuss the issue at least occasionally.

How often do you discuss global warming with you family and friends?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



Discussions of global warming have increased among Americans, with the proportion discussing the issue occasionally or often increasing from a quarter (25%) in the spring to close to a third in the fall (31%).

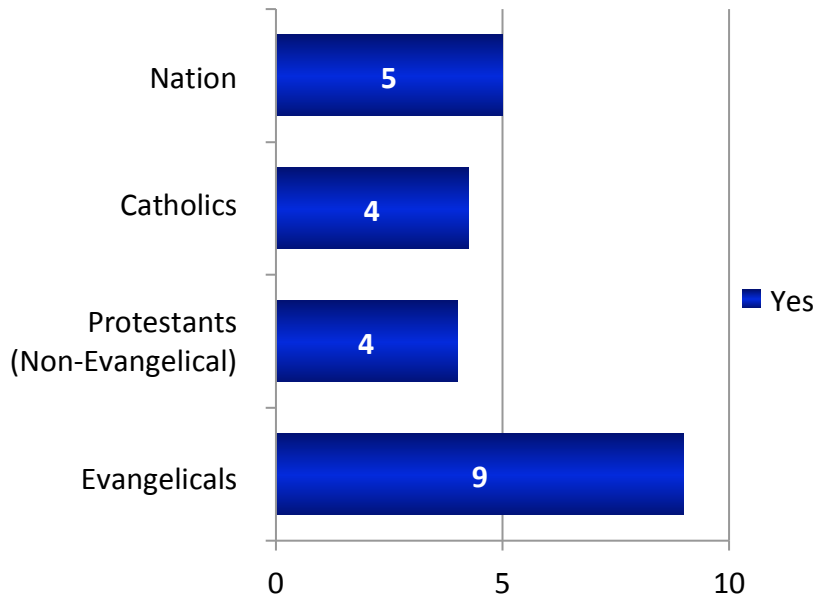
The proportion of Catholics discussing the issue "occasionally" or "often" increased by 5 points to just over a quarter (26%).

PART III: SELF-DESCRIBED CHANGES IN OPINIONS

Few Americans Say Their Views on Global Warming Have Changed

- Only one in twenty Americans say they've changed their opinions on global warming over the past year.

Over the past year, have you changed your opinion about global warming?



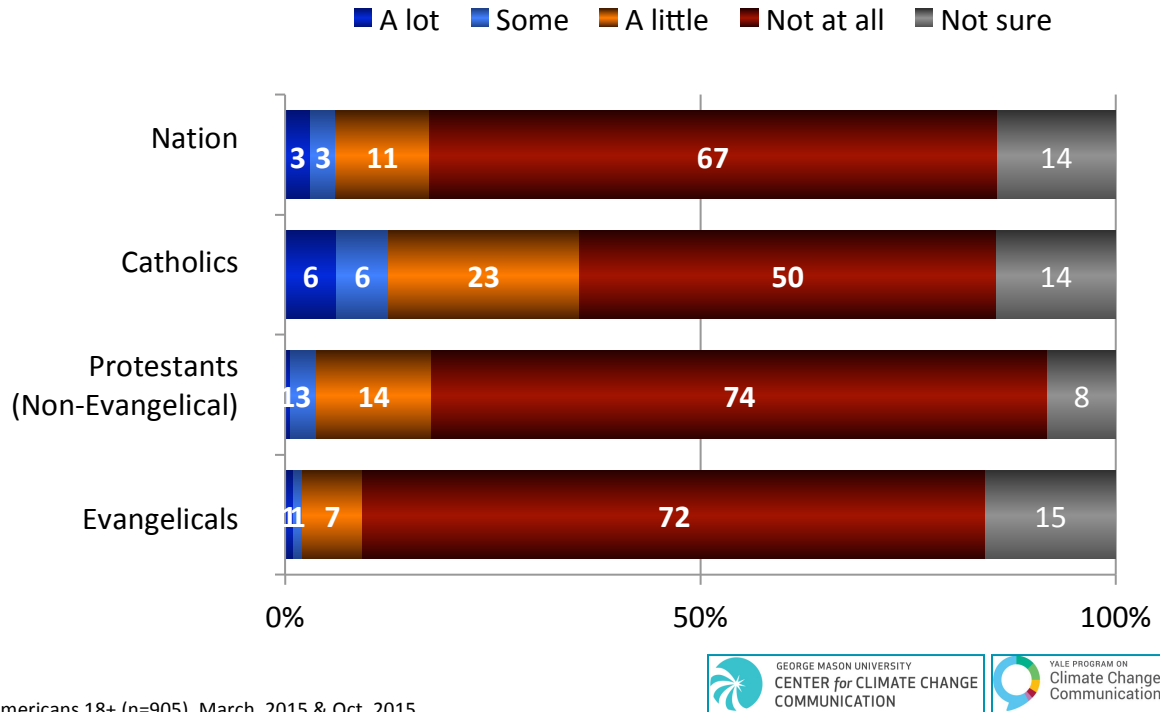
Base: Americans 18+ (n=905). Oct. 2015.



Many Americans Say the Pope's Position on Global Warming Has Influenced Their Views on the Issue

- About 1 in 6 Americans (17%) and about 1 in 3 Catholics (35%) say the Pope's position on global warming has had an impact on their views about the issue.

How much impact, if any, has the Pope's position on global warming had on your own views about global warming?



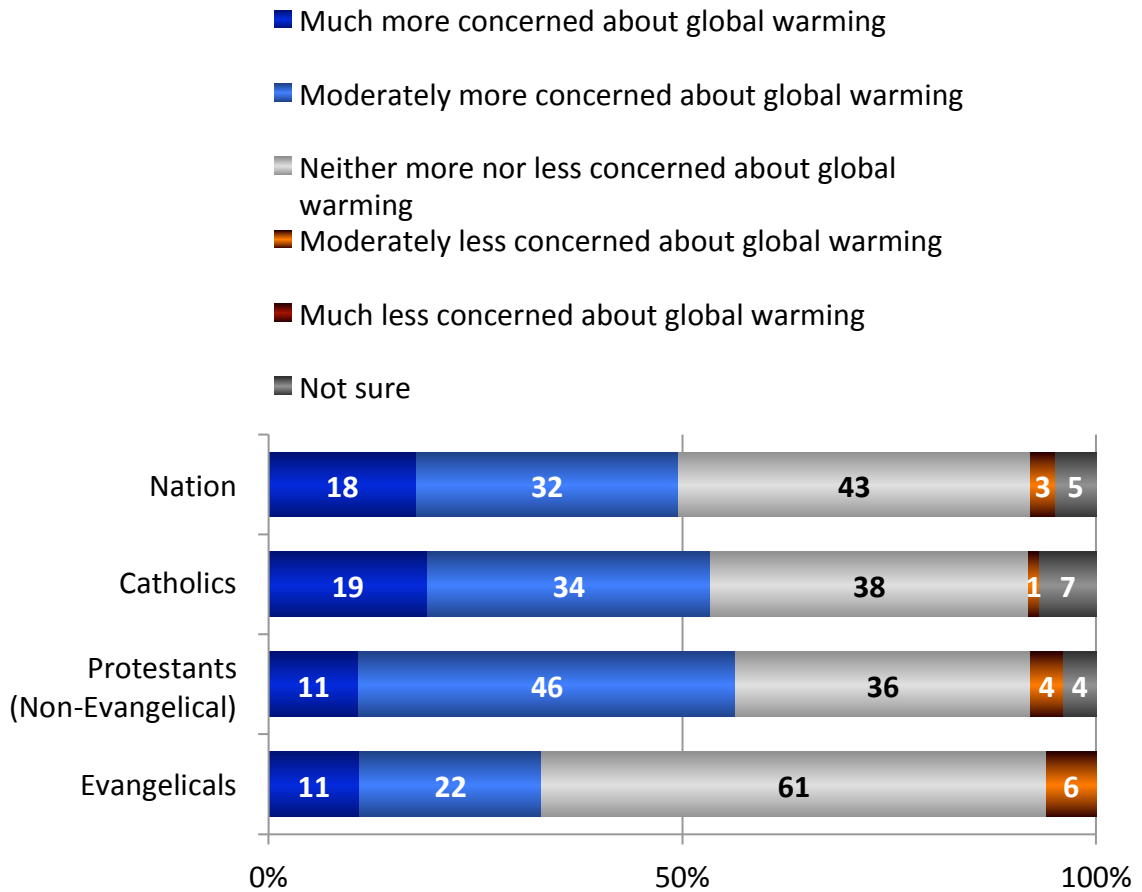
About one in six Americans say the Pope's position on global warming has affected their own views on the issue at least a little, with 11 percent saying they've been influenced "a little," 3 percent reporting they've been influenced "some" and another 3 percent saying they've been influenced "a lot."

Among Catholics, the changes are much greater, with 35 percent saying they've been influenced, and 6 percent saying they've been influenced "a lot."

Of Those Americans Who Were Influenced by the Pope's Position on Global Warming, Half Say the Pope Has Made Them More Concerned about the Issue

- Among Americans who say the Pope has had an impact on their views of global warming, half say they've become "much more concerned" (18%) or "moderately more concerned" (32%).
- Among Catholics who say the Pope has influenced their views on the issue, slightly more than half say they've become "much more concerned" (19%) or "moderately more concerned" (34%).

Has the Pope's position on global warming made you...?



NOTE SMALL BASE: Americans 18+ (n=148). March 2015 & Oct. 2015.

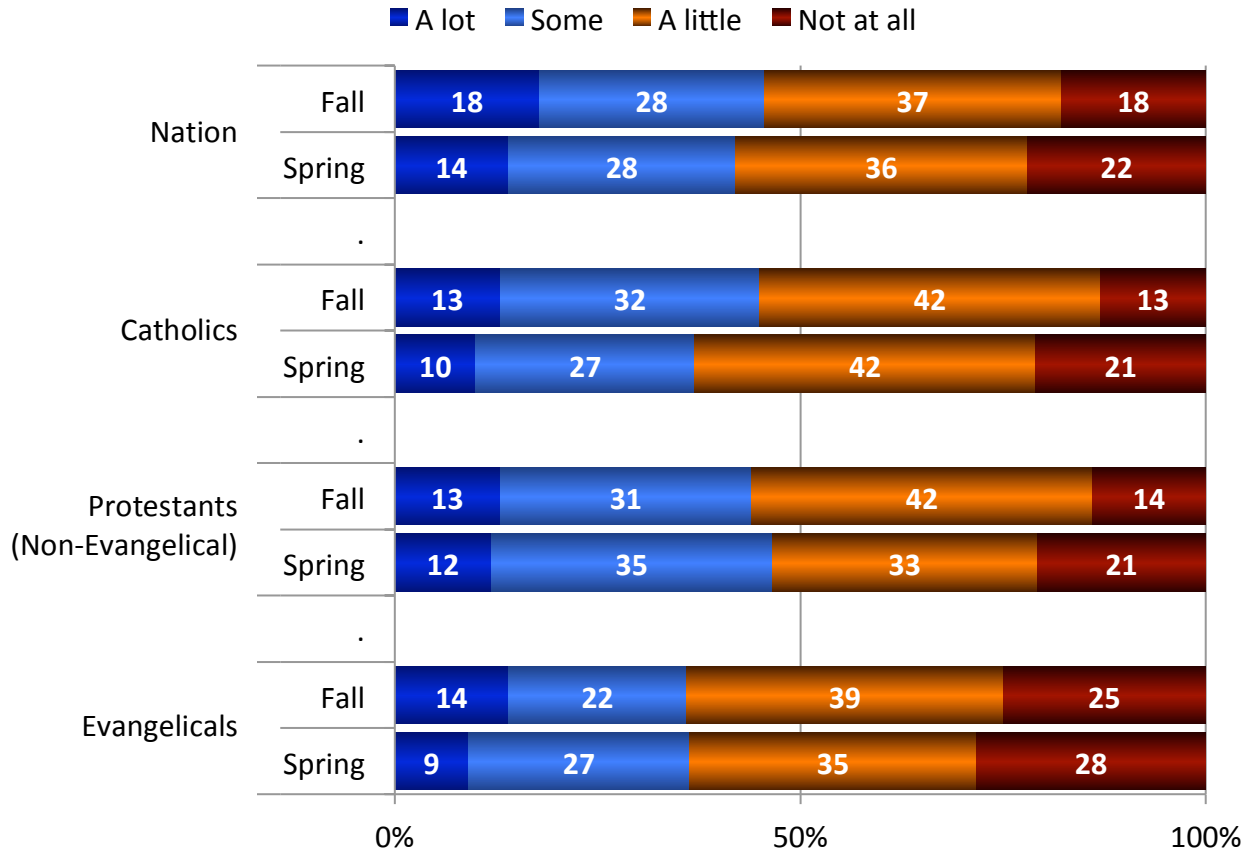


PART IV: KEY BELIEFS, FEELINGS AND THOUGHT ABOUT GLOBAL WARMING

Americans Are Thinking More About Global Warming

- More Americans overall (+4 points), and more Catholics (+8 points), say they've thought a lot or some about global warming.

How much had you thought about global warming before today?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



The proportion of Americans who say they have thought at least "a little" about global warming increased 4 points from the spring to the fall, with 18 percent saying they've thought about the issue "a lot," an increase of 3 points. About three in ten (28%) say they've thought about the issue "some," and 37 percent say they've thought about it "a little." Fewer than one in five (18%) say they haven't thought about the issue at all.

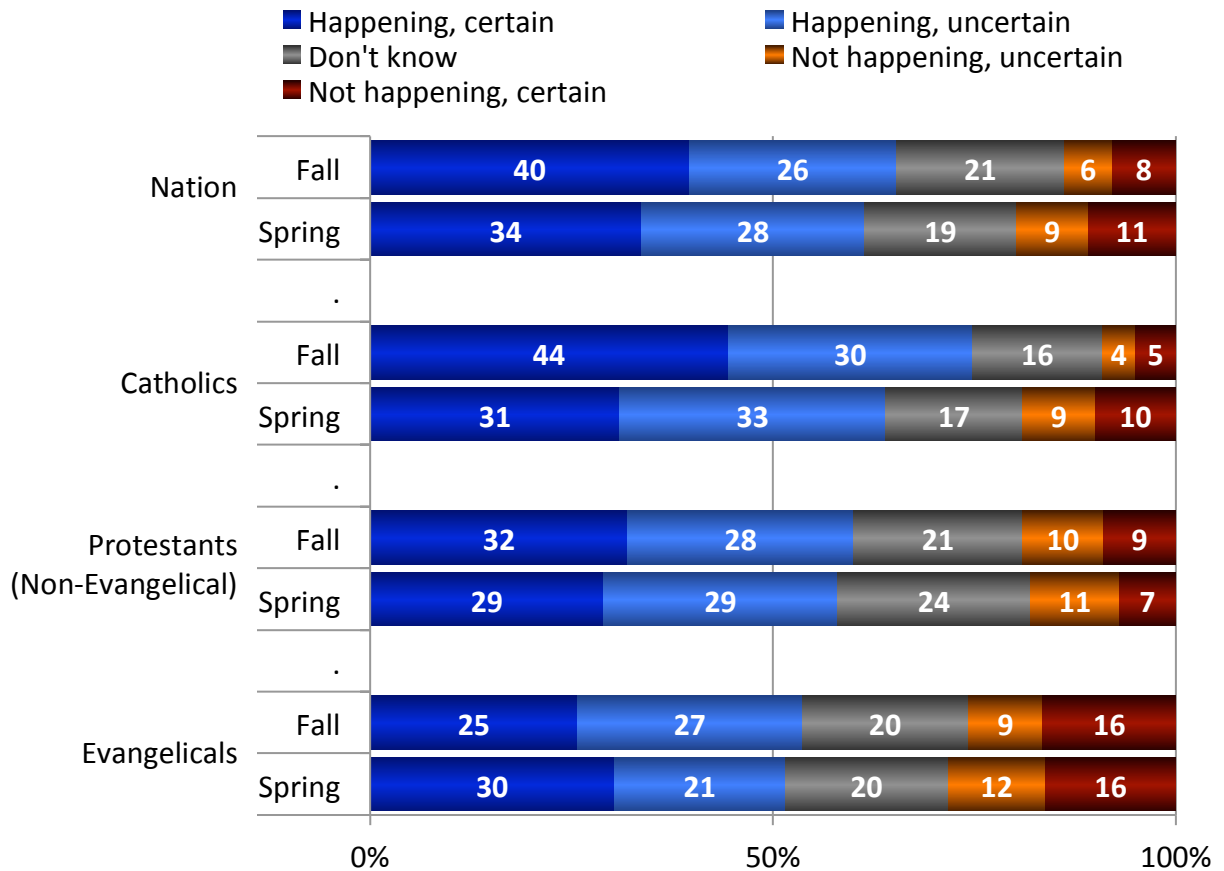
The largest changes in thought about the issue are among Catholics, with an increase of 3 points in the proportion who've thought "a lot" about the issue and an increase of 5 points who've thought about it "some."

Certainty That Global Warming Is Happening Has Increased

- More Americans overall (+6 points), and more Catholics (+13 points), became certain that global warming is happening.

Do you think global warming is happening?

How sure are you that global warming is (is not) happening?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



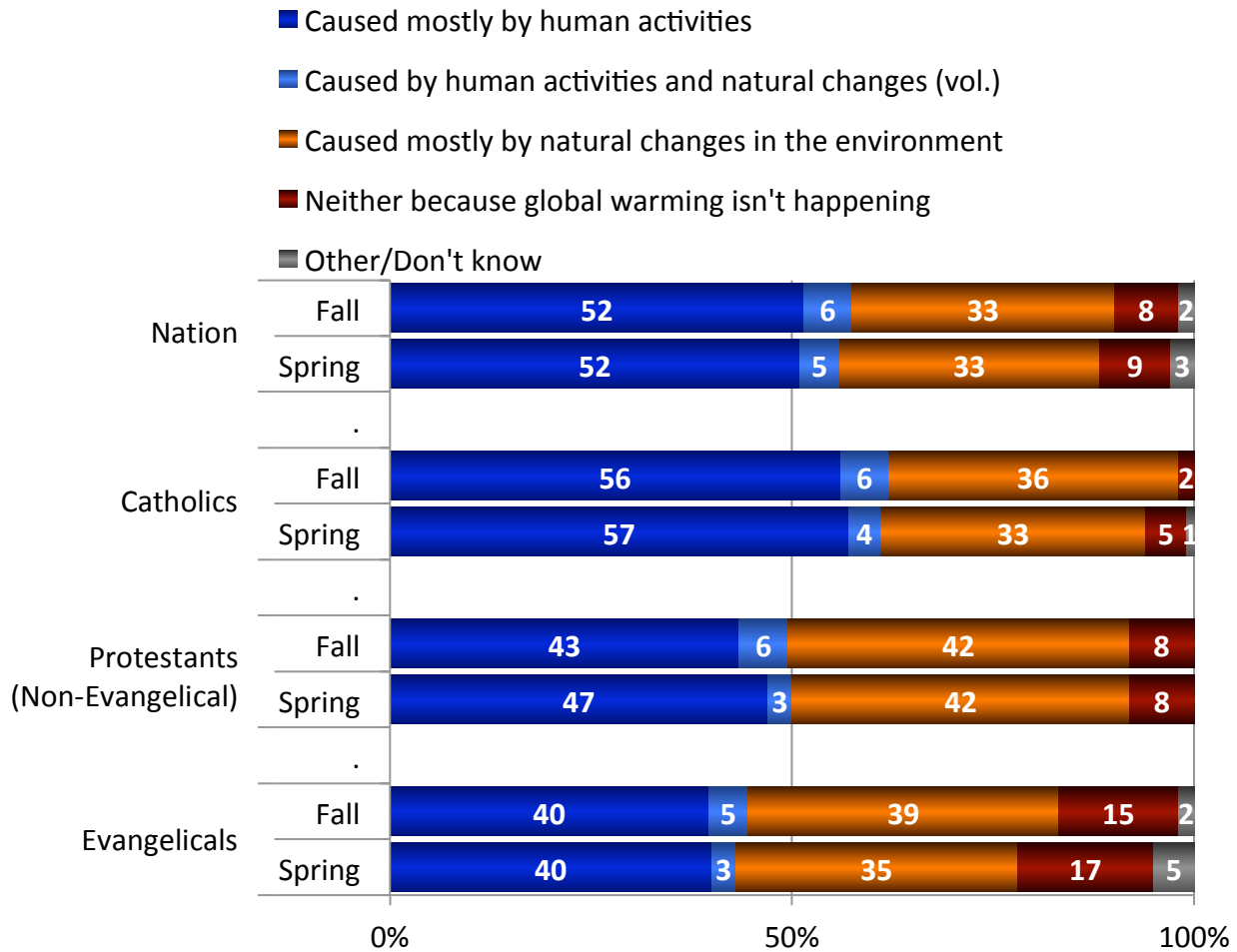
Certainty that global warming is happening increased among the total population, and among Catholics. Forty percent of Americans are now certain that global warming is happening, an increase of 6 percentage points from the spring. Among Catholics, 44 percent are now certain, an increase of 13 points from the spring.

The total proportion that believes global is not happening decreased by 6 percentage points between the spring and fall from 20 to 14 percent. Among Catholics, the proportion that believes global warming is not happening decreased by 10 points, from 19 to 9 percent.

Understanding That Human Actions Are Causing Global Warming Did Not Increase

- The proportion of Americans who understand that human activities are causing global warming remained steady at 52 percent.

Assuming that global warming is happening, do you think it is...



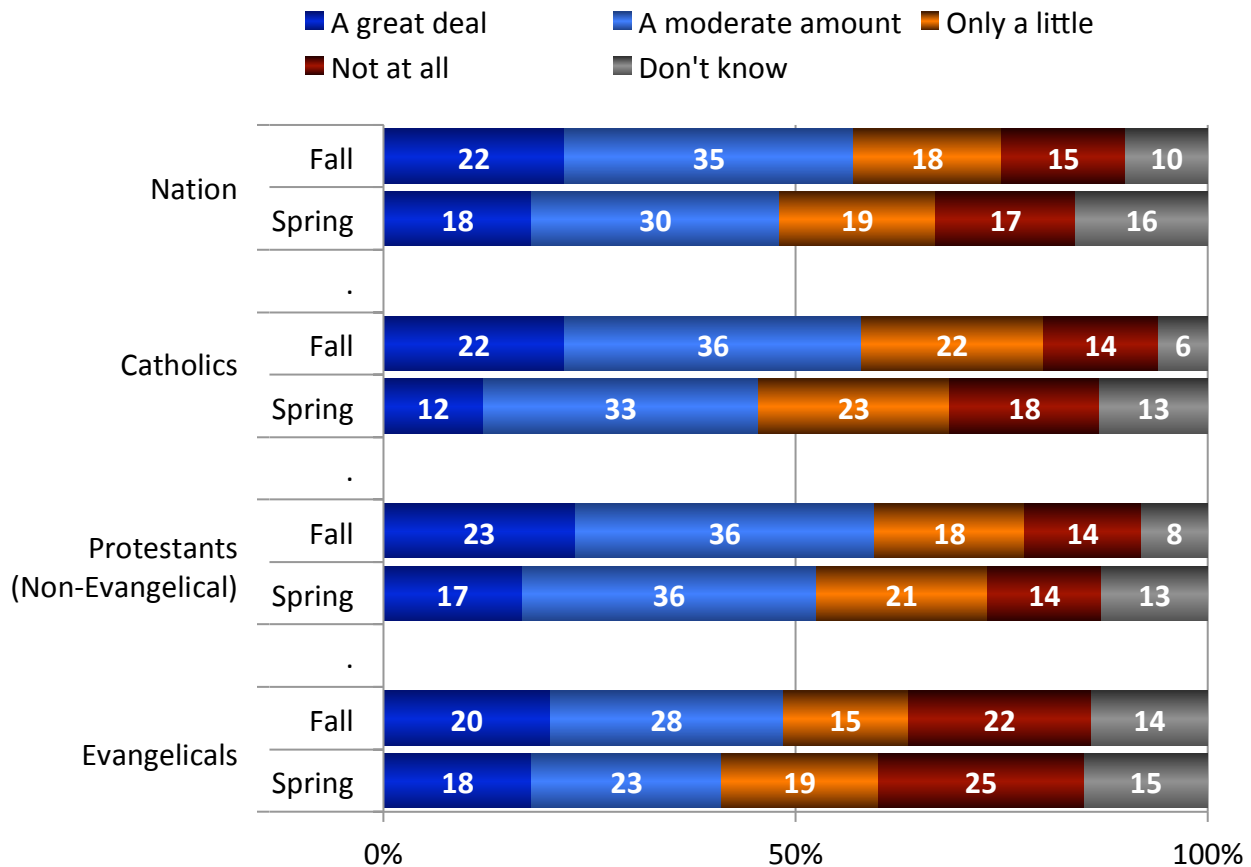
Base: Americans 18+ (n=905). March 2015 & Oct. 2015.



Belief That Global Warming Will Harm People in the U.S. Increased

- More than half of Americans (57%) and Catholics (56%) now believe that people in the U.S. will be harmed "a moderate amount" or "a great deal" by global warming.
- Belief that Americans will be harmed increased by 9 percentage points among the total population, and by 13 points among Catholics between the spring and fall.

How much do you think global warming will harm people in the United States?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



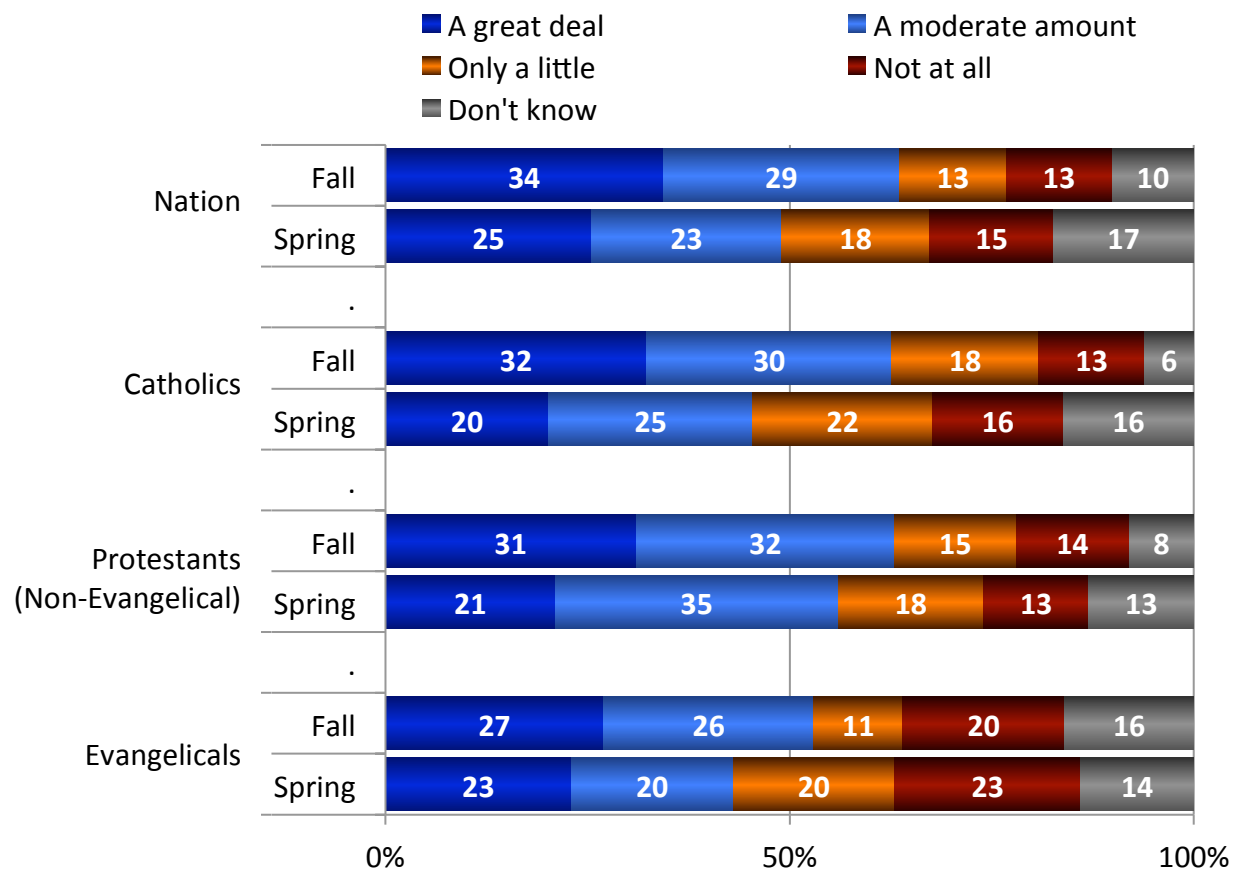
Belief that global warming will be harmful to people in the U.S. increased by 9 percentage points between the spring and the fall. The proportion who believe Americans will be harmed "a great deal" or "a moderate amount" increased from 48 to 57 percent, now comprising a majority of Americans.

The proportion of Catholics who believe that people in the U.S. will be harmed "a lot" increased by 10 percentage points, and the proportions who say either they didn't know or that Americans won't be harmed at all decreased by 11 percentage points.

Belief That Global Warming Will Harm People in Developing Nations Has Increased

- Close to two-thirds of Americans (63%) believe that global warming will harm people in developing countries "a great deal" or "a moderate amount," an increase of 15 percentage points since the spring.
- The proportion of Catholics who believe that global warming will harm people in developing nations a moderate amount or more increased by 17 percentage points, from 45 to 62 percent.

How much do you think global warming will harm people in developing countries?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

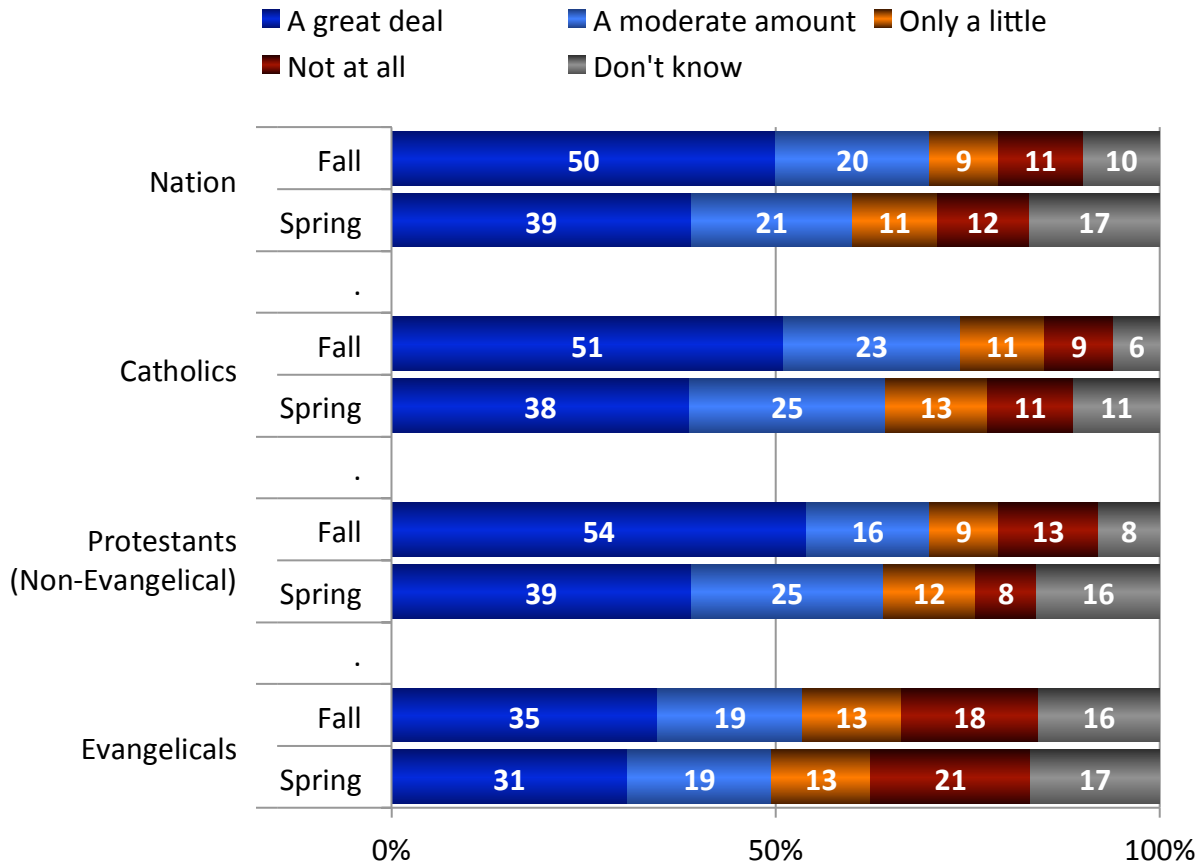


Belief that global warming will harm people in developing countries increased among Americans as a whole, and among Catholics. Nationally, expectations of at least moderate harm increased by 15 percentage points; among Catholics, the increase was 17 points. Close to two-thirds of Americans (63%) now expect "a great deal" or "a moderate amount" of harm to people in developing nations, as do 62 percent of Catholics.

Belief That Global Warming Will Harm Future Generations Has Increased

- Half of Americans now believe that global warming will harm future generations of people "a great deal", and another 20 percent believe they will be harmed "a moderate amount."
- Over half of Catholics (51%) now believe that global warming will harm future generations of people "a great deal," and about a quarter (23%) believe they will be harmed "a moderate amount."

How much do you think global warming will harm future generations of people?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

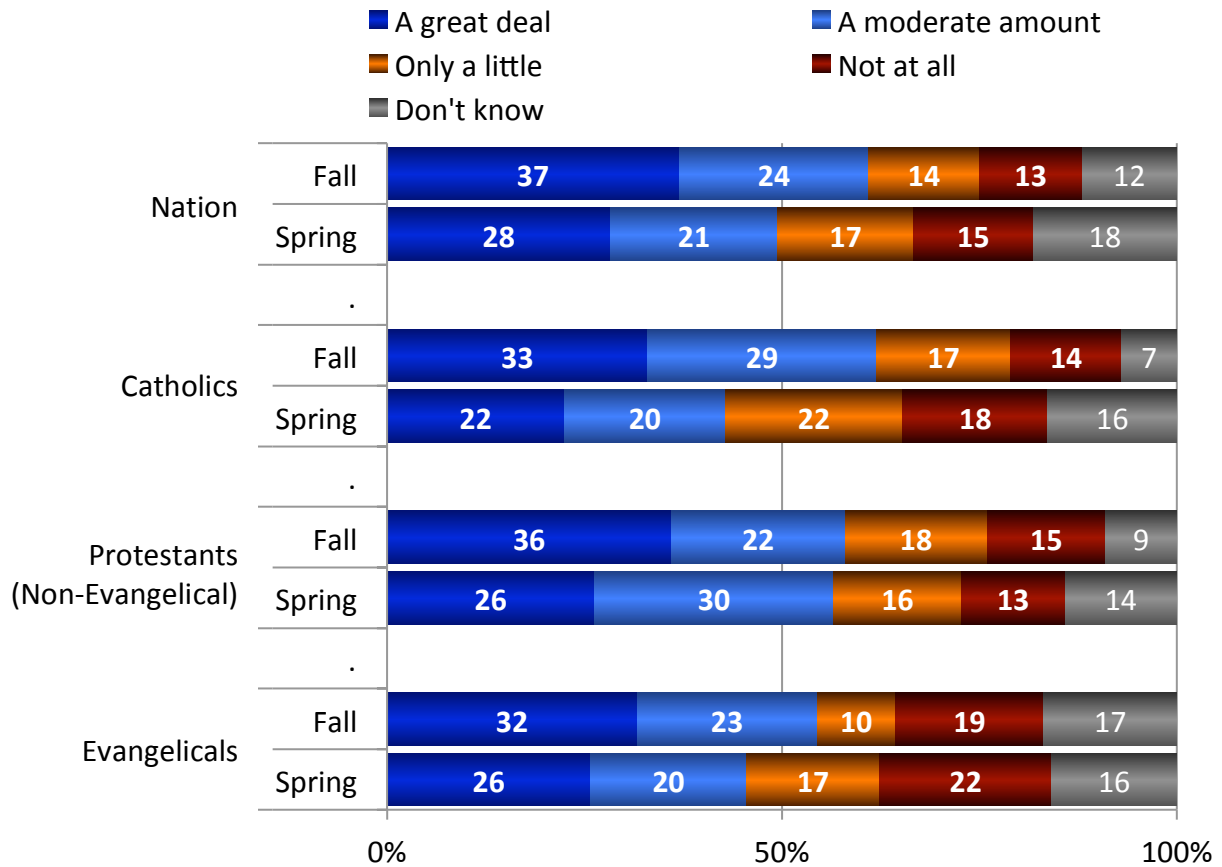


The belief that global warming will harm future generations of people increased by 10 percentage points among Americans overall, and by 11 points among Catholics.

Belief That Global Warming Will Harm the World's Poor Increased

- Six in ten Americans (61%) now say that global warming will harm the world's poor by at least a moderate amount, an increase of 12 percentage points since the spring.
- This increase was particularly large among Catholics, a 20 point rise, from 42 percent in the spring to 62 percent in the fall.

How much do you think global warming will harm the world's poor?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

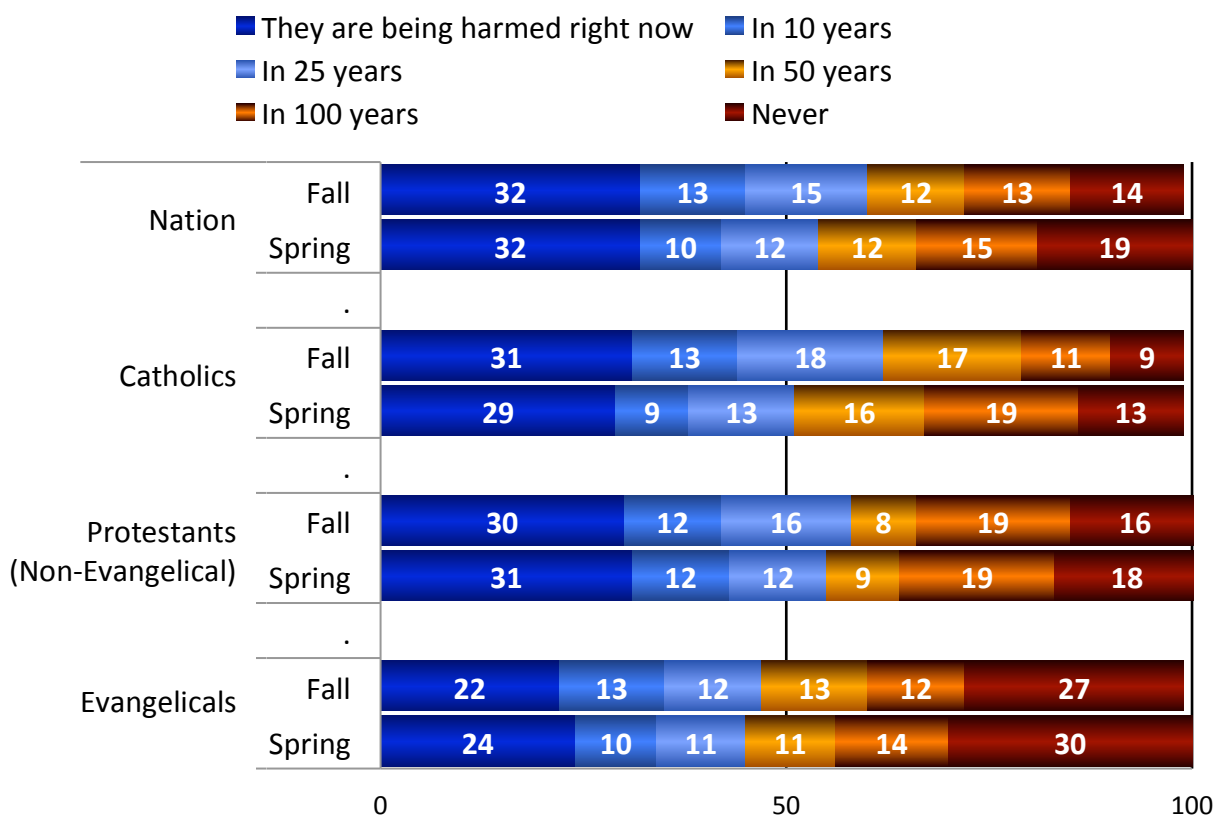


One of the Pope's central messages on climate change is the harm it causes to the world's poor. This belief has increased nationally and among Catholics. Six in ten Americans (61%) believe the poor will be harmed at least a moderate amount, as do 62 percent of Catholics, 58 percent of Non-Evangelical Protestants and 55 percent of Evangelicals.

Harm to People in the U.S. from Global Warming is Now Seen as Happening Sooner Rather Than Later

- The proportion of Americans who believe global warming is now harming – or will begin to harm – people in the U.S. within the next 25 years increased by 6 percentage points since spring.
- The proportion of Catholics who believe global warming is now harming – or will begin to harm – people in the U.S. within the next 25 years increased by 11 percentage points since spring.

When do you think global warming will start to harm people in the United States?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



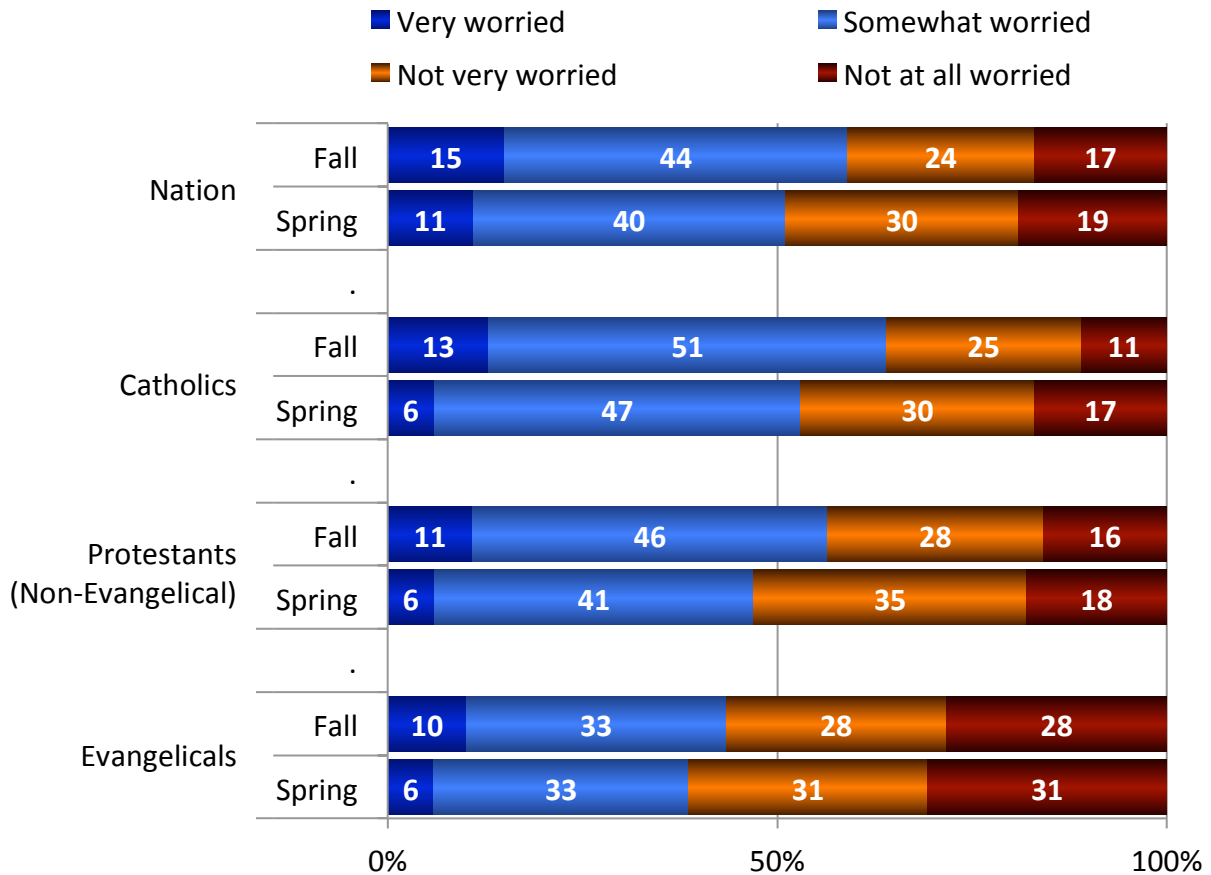
In 2014, the Third U.S. National Climate Assessment concluded that climate change impacts are now occurring in every region of the U.S. Although only a third of Americans (32%) recognize this fact – a proportion that did not change between spring and fall – respondents’ estimates of when impacts will occur shifted slightly closer to the present. The proportion of Americans who believe harm will begin in 10 years increased from 10 to 13 percent, and the proportion who believe harm will begin in 25 years increased from 12 to 15 percent. Moreover, the proportion of Americans who believe global warming will never harm people in the U.S. decreased from 19 to 14 percent.

The proportion of Catholics predicting harm in 10 or 25 years increased by 9 percentage points, while the proportion expecting harm in 100 years, or not at all, decreased by 12 percentage points.

More Americans Are Now Worried about Global Warming

- The proportion of Americans who say they're "somewhat" or "very" worried about global warming increased by 8 percentage points, from 51 percent in the spring to 59 percent in the fall.
- Among Catholics, the proportion who are at least somewhat worried increased by 11 percentage points, from 51 percent in the spring to 64 percent in the fall.

How worried are you about global warming?



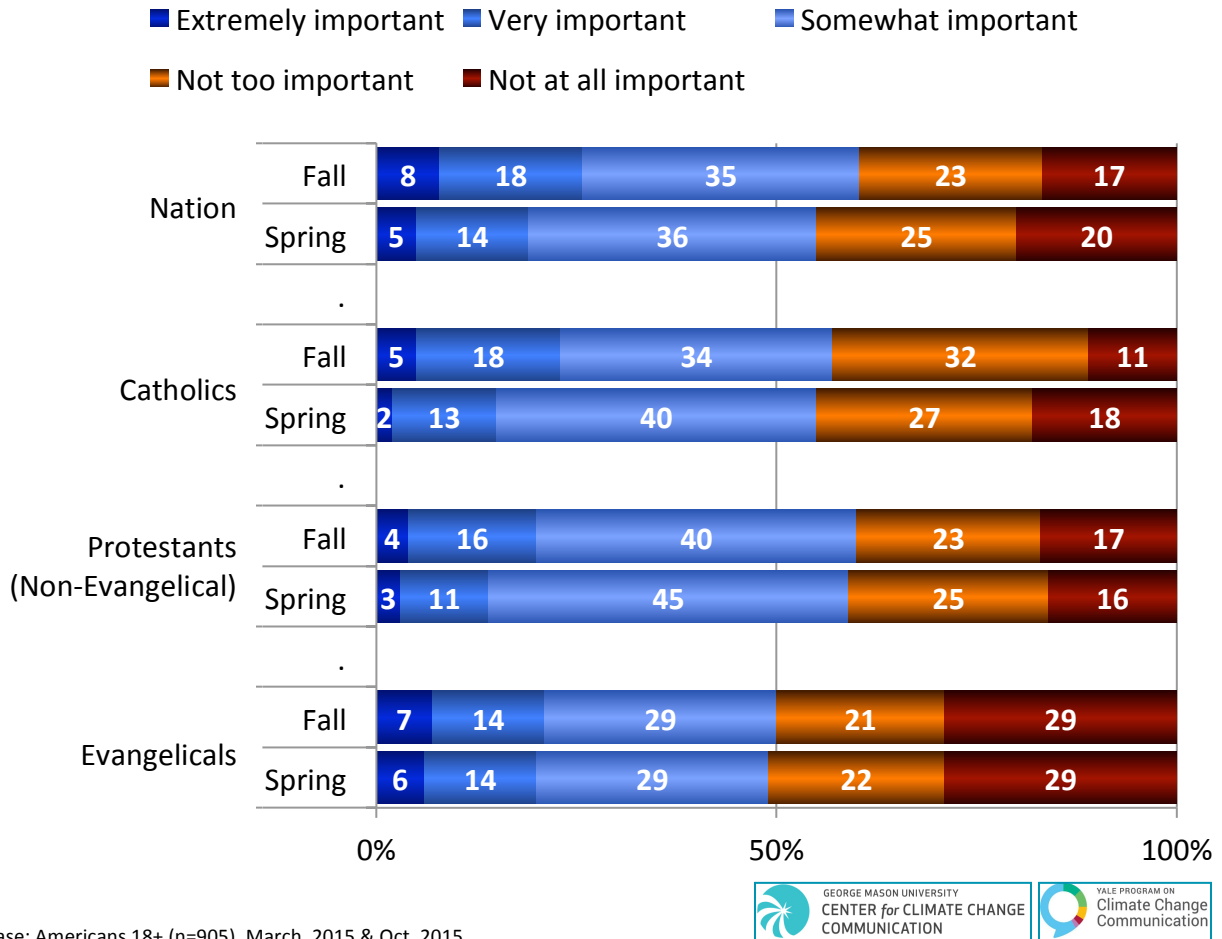
Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



More Americans Say the Issue of Global Warming is Important to Them Personally.

- More Americans (+7 points) and more Catholics (+8 points) say that the issue of global warming has become extremely or very important to them personally.

How important is the issue of global warming to you personally?



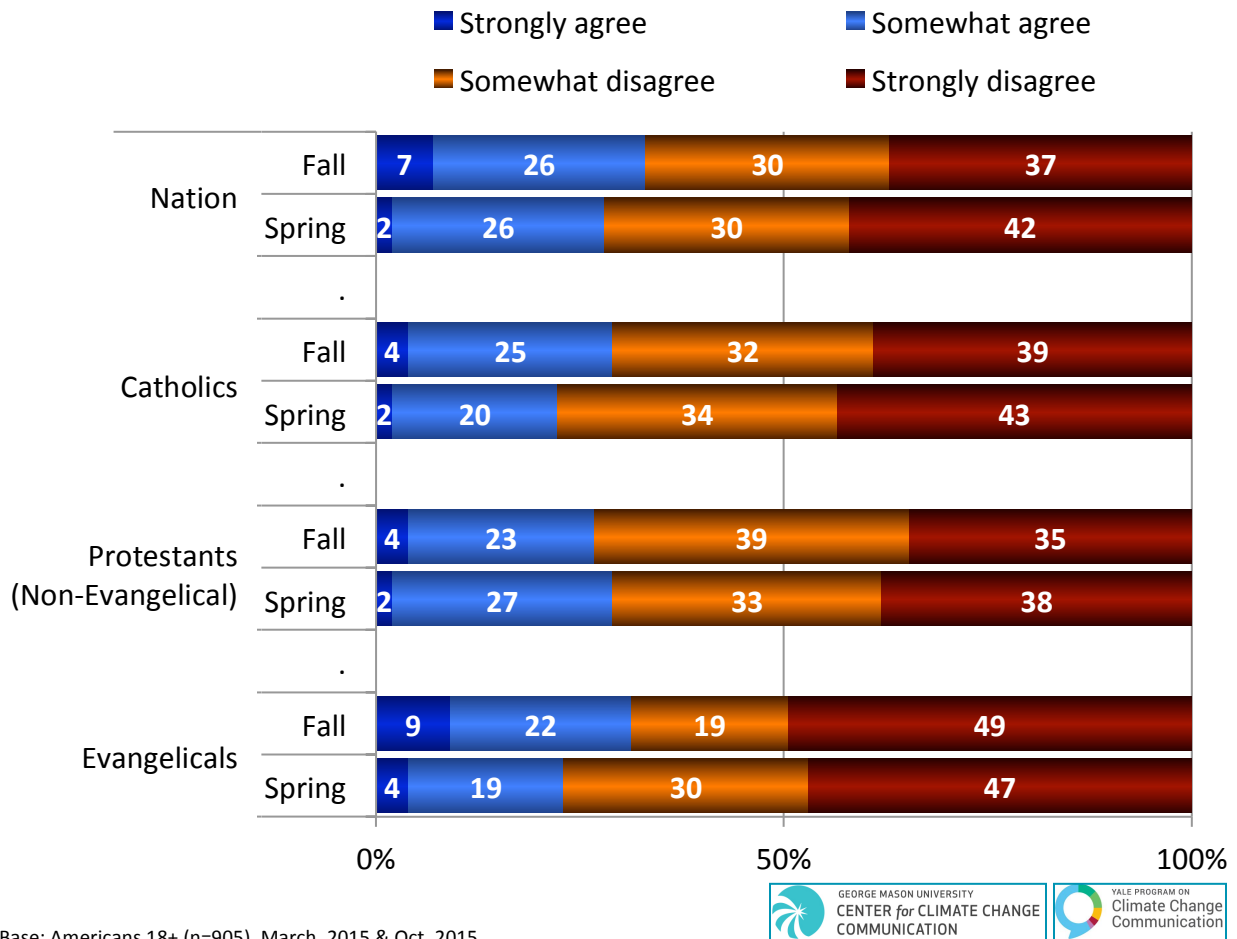
Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

Nationally, the proportion of Americans who say global warming is personally important has increased, with large increases occurring among Catholics. The proportion of Americans saying global warming is "very" or "extremely" important to them personally increased from 19 percent in the spring to 26 percent in the fall; among Catholics the proportions increased from 15 percent in the spring to 23 percent in the fall.

More Americans Say They Have Personally Experienced the Effects of Global Warming.

- More Americans (+5 points) and more Catholics (+7 points) say they have personally experienced the effects of global warming.
- A third of Americans now say that they have personally experienced global warming.

"I have personally experienced the effects of global warming."



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

The proportion of Americans who "strongly agree" that they have personally experienced global warming increased by 5 percentage points between spring and fall, while the proportion who "strongly disagree" decreased by the same amount. The proportion of Catholics who say they have personally experienced global warming increased by 7 percentage points.

These increases may reflect the summer's severe drought and wildfires in the West, high heat nationwide, and historic flooding in South Carolina. The Pope's discussion of global warming also may have amplified people's perceptions that the summer's extreme weather is linked to changes in the climate.

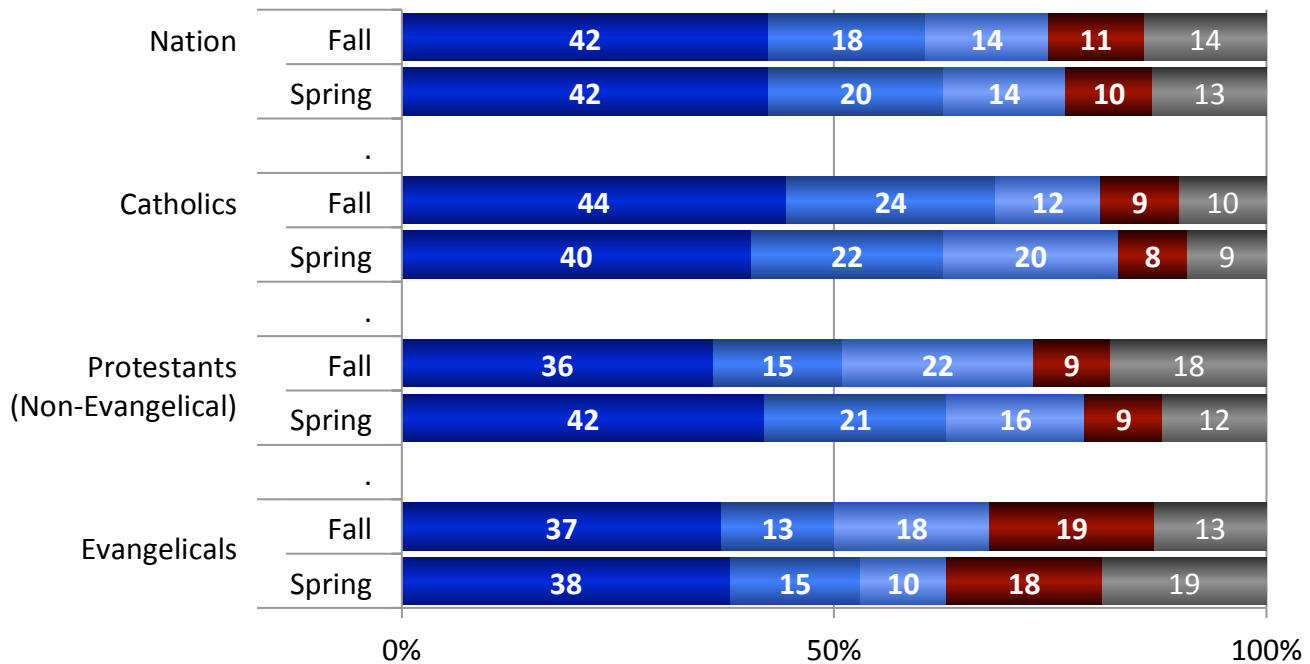
PART V: ISSUE FRAMES & OTHER MORAL VIEWS

More Catholics Think Action to Reduce Global Warming Will Help the Natural Environment

- About three-quarters of Americans believe global action on climate change will help the natural environment at least "a little," a perception that has not changed since the spring.
- Among Catholics, belief that action on global warming will help the natural environment "a lot" or "a moderate amount" increased by 6 percentage points, from 62 to 68 percent.

In your opinion, if the world takes action to reduce global warming, will it help the natural environment?

- Yes, it will help a lot
- Yes, it will help a moderate amount
- Yes, it will help a little
- No, it will not help
- Not sure



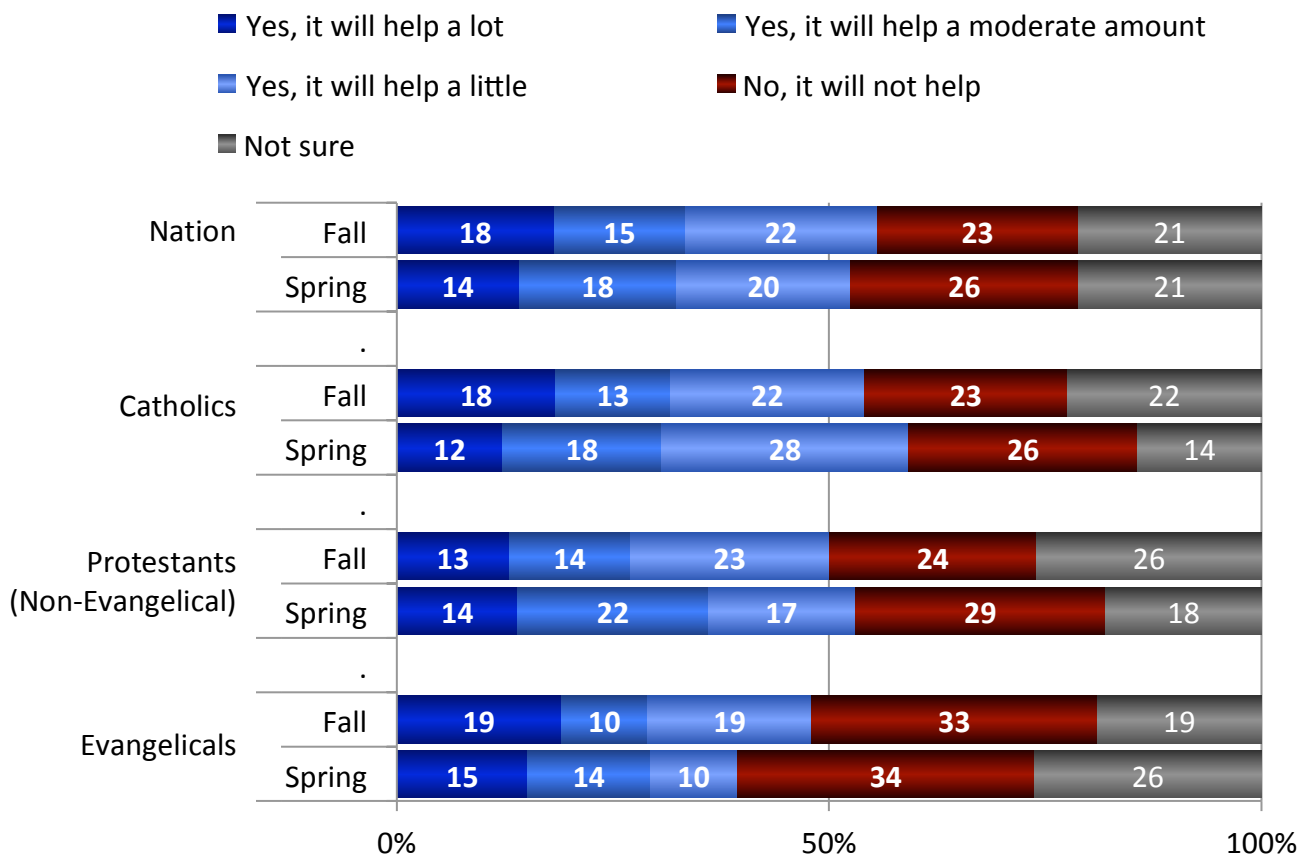
Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



More Americans Think that Reducing Global Warming Will Help the World's Poor

- Belief that taking action to reduce global warming will help the world's poor increased by 3 percentage points nationally, from 52 to 55 percent.
- Among Catholics, the proportion that say it will help "a lot" increased by 6 percentage points, from 12 to 18 percent; however, the proportion that said it will help "a little" or "a moderate amount" decreased by 11 percentage points, for a net decrease of 5 percentage points.

In your opinion, if the world takes action to reduce global warming, will it help the world's poor?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

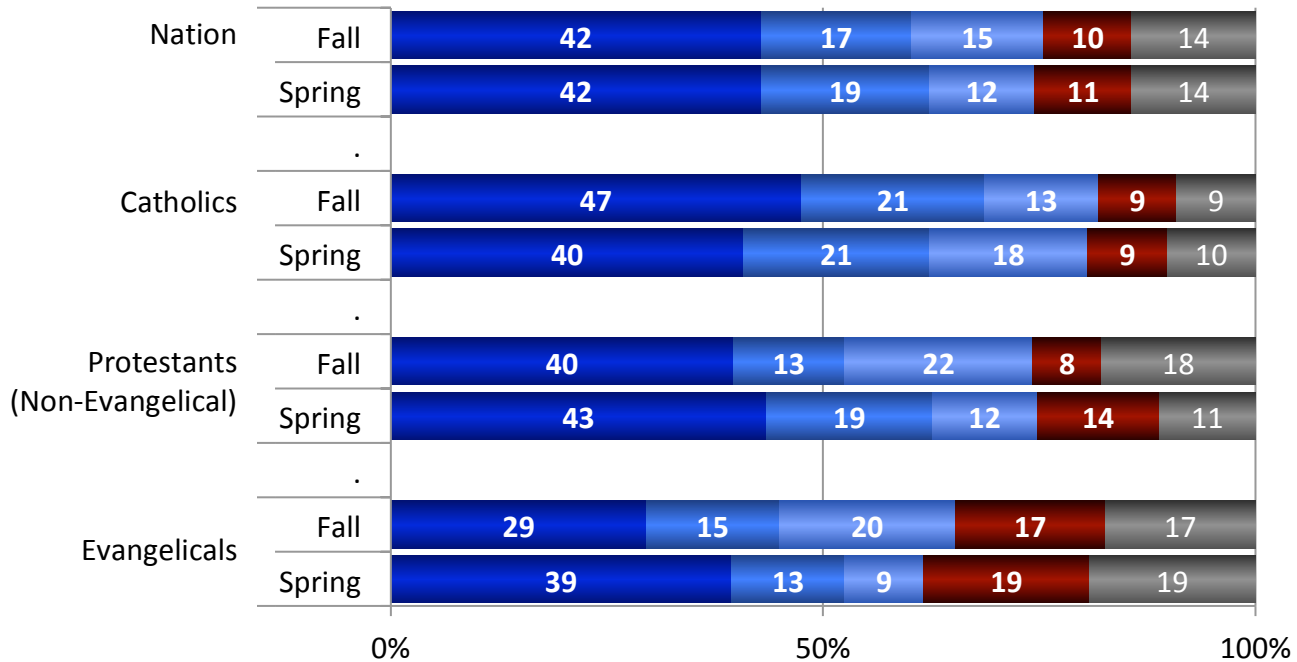


More Catholics Think That Reducing Global Warming Will Help Future Generations

- Close to three-quarters of Americans believe that reductions in global warming will help future generations at least "a little," a proportion that has not changed since the spring.
- Among Catholics, the belief that future generations will be helped "a lot" increased from 40 to 47 percent.

In your opinion, if the world takes action to reduce global warming, will it help future generations of people?

- Yes, it will help a lot
- Yes, it will help a moderate amount
- Yes, it will help a little
- No, it will not help
- Not sure



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

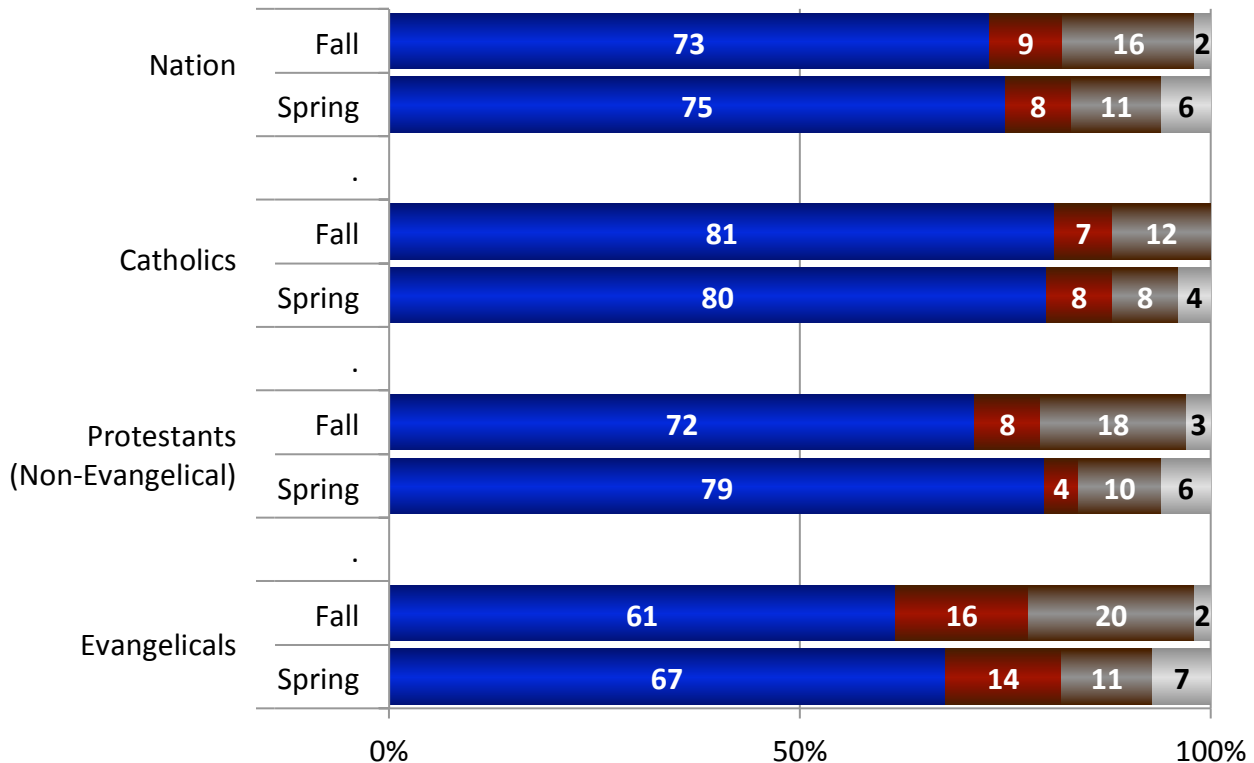


Views About Humankind's Rights and Responsibilities to Nature Did Not Change

- Close to three-quarters of Americans believe humans should protect and care for the earth, rather than using its resources for their own purposes, a belief that did not change from the spring to the fall.

Please indicate whether the first statement or the second statement comes closer to your own views – even if neither is exactly right.

- It is humankind's responsibility to protect and care for the Earth and its natural resources
- It is humankind's right to use the Earth and its natural resources for our own benefit
- Not sure
- No response



Note: The proportion of respondents who did not answer this question was higher in the spring survey than the 1-2 percent of refusals on most questions. Hence, we have included the proportions who did not respond in this figure, unlike the other figures in the report.

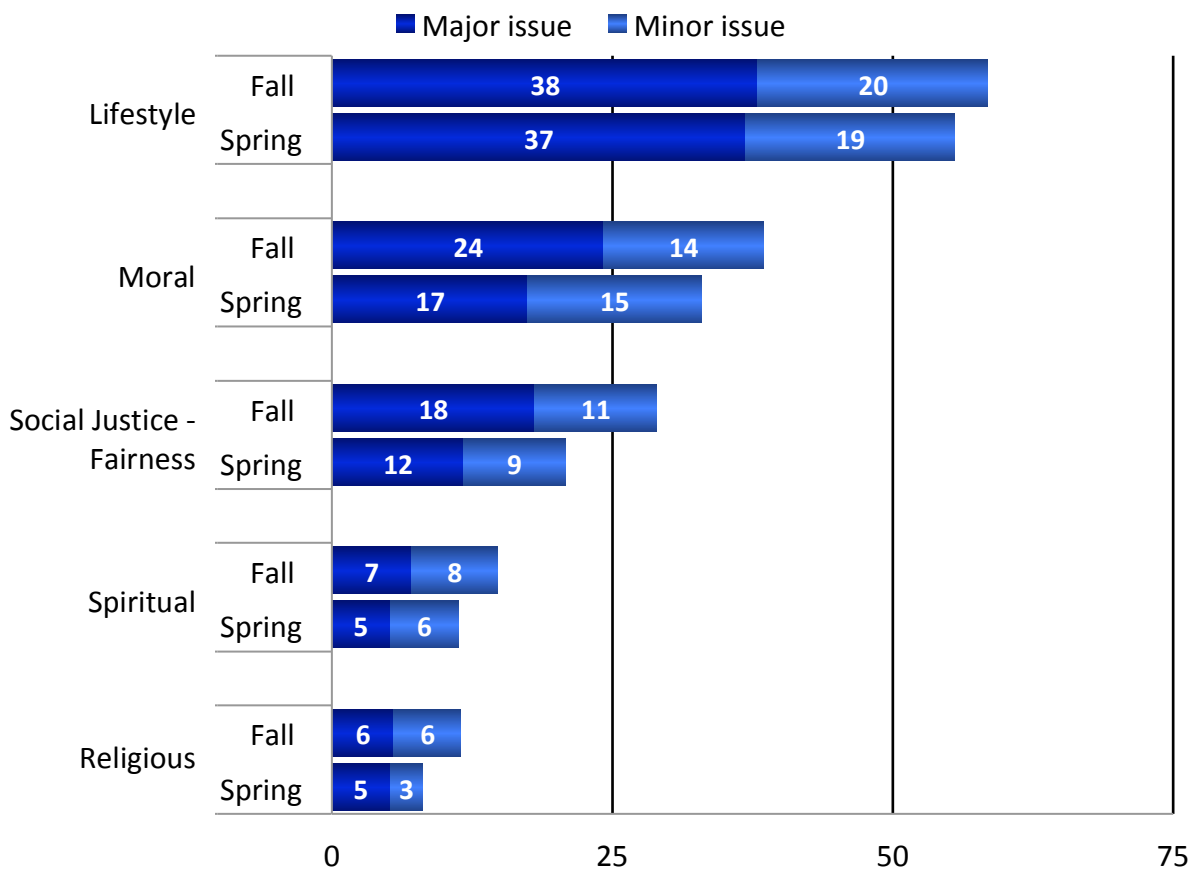
Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



More Americans See Global Warming as a Moral, Spiritual and Ethical Issue

- Belief that global warming is a major moral issue increased by 7 percentage points.
- Belief that global warming is a major social justice and fairness issue increased by 6 percentage points.
- Beliefs that global warming is a spiritual or religious issue each increased by 4 percentage points.

***In your opinion, do you think global warming is a ...?
(if yes) Do you think global warming is a major of minor issue?***



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

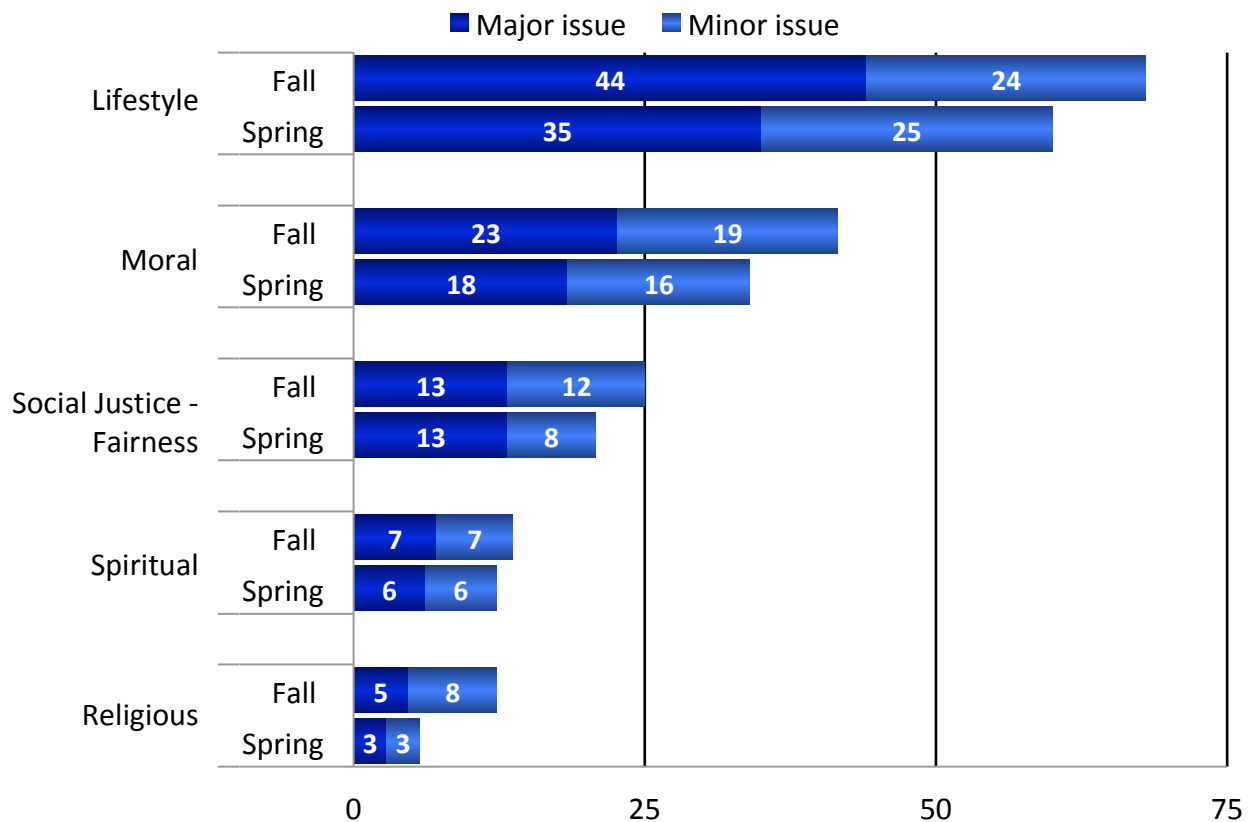


The Pope has spoken at length about the impact of global warming on the world's poor, framing global warming as a moral, spiritual and religious issue, and critiquing Western lifestyles and consumption. Among Americans, perceptions about these dimensions of the issue of global warming increased since the spring.

More Catholics See Global Warming as a Moral and Religious Issue

- Belief that global warming is a moral issue increased by 8 percentage points, including a 5 percentage point increase in belief that it is a major moral issue.
- Belief that global warming is a religious issue more than doubled, from 6 to 13 percent.

***In your opinion, do you think global warming is a ...?
(if yes) Do you think global warming is a major of minor issue?***



Base: American Catholics 18+ (n=222). March, 2015 & Oct. 2015.

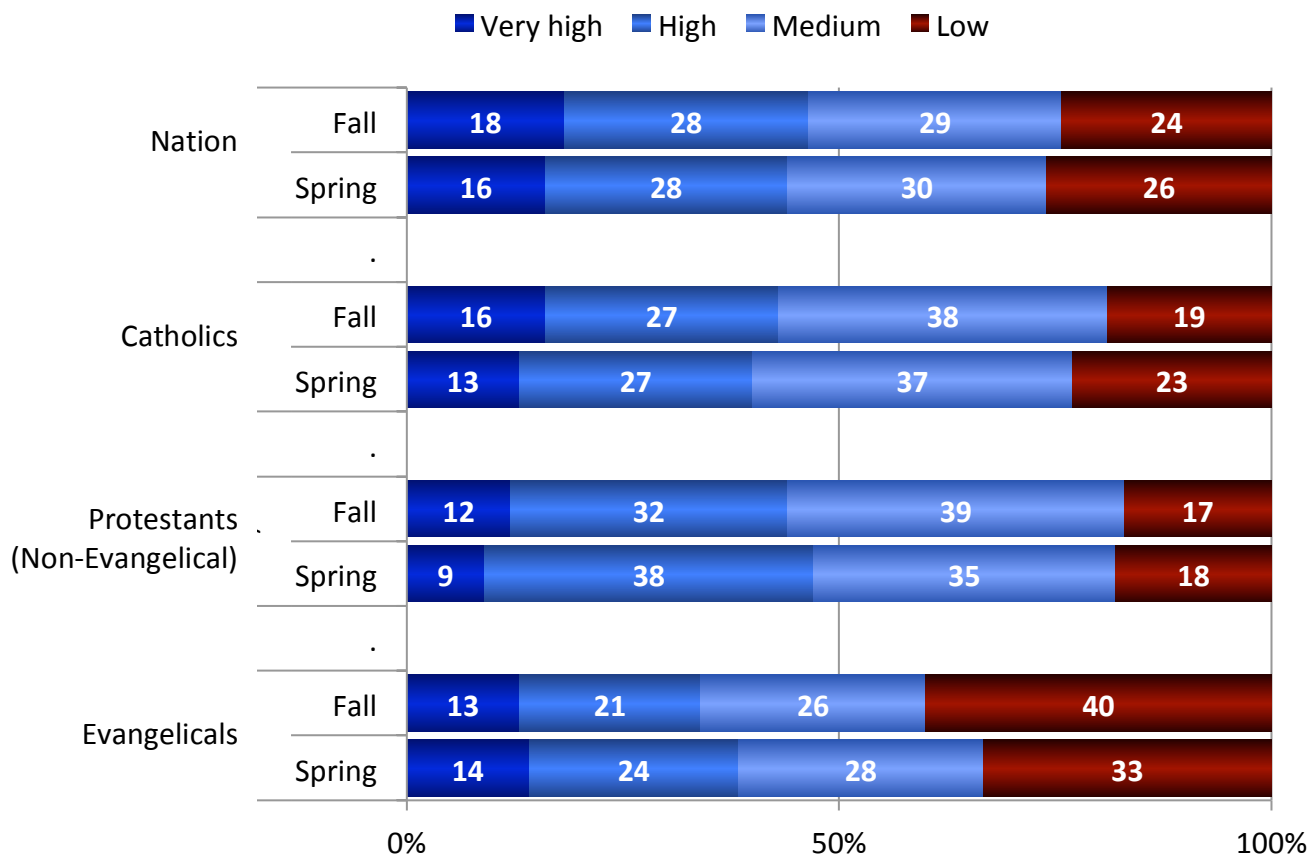


PART VI: SUPPORT FOR ACTION ON GLOBAL WARMING

Slightly More Americans Say that Global Warming Should Be a Very High Priority for the President and Congress

- The proportion of Americans who say global warming should be a very high priority increased by two percentage points nationally, while the proportion who believe it should be a low priority decreased.

Do you think global warming should be a low, medium, high, or very high priority for the president and Congress?



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



Americans' Preferred Level of Response to Global Warming from Government, Industry and Citizens Did Not Change

- Support for more action on global warming from a range of societal actors remains high, but did not increase between the spring and fall.
- About two thirds of Americans would like more action to address global warming from corporations and industry (66%) and from citizens themselves (63%).
- Half or more think the U.S. Congress (57%) and President Obama (50%) should be doing more.

Do you think each of the following should be doing more or less to address global warming?

		Much more	More	Currently doing the right amount	Less	Much less
The U.S. Congress	Fall	24	34	21	11	9
	Spring	23	34	25	8	10
President Obama	Fall	16	33	31	8	12
	Spring	15	35	28	8	13
Corporations & Industry	Fall	34	37	17	7	5
	Spring	34	32	22	6	6
Citizens Themselves	Fall	23	41	24	7	5
	Spring	22	41	24	6	7

Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

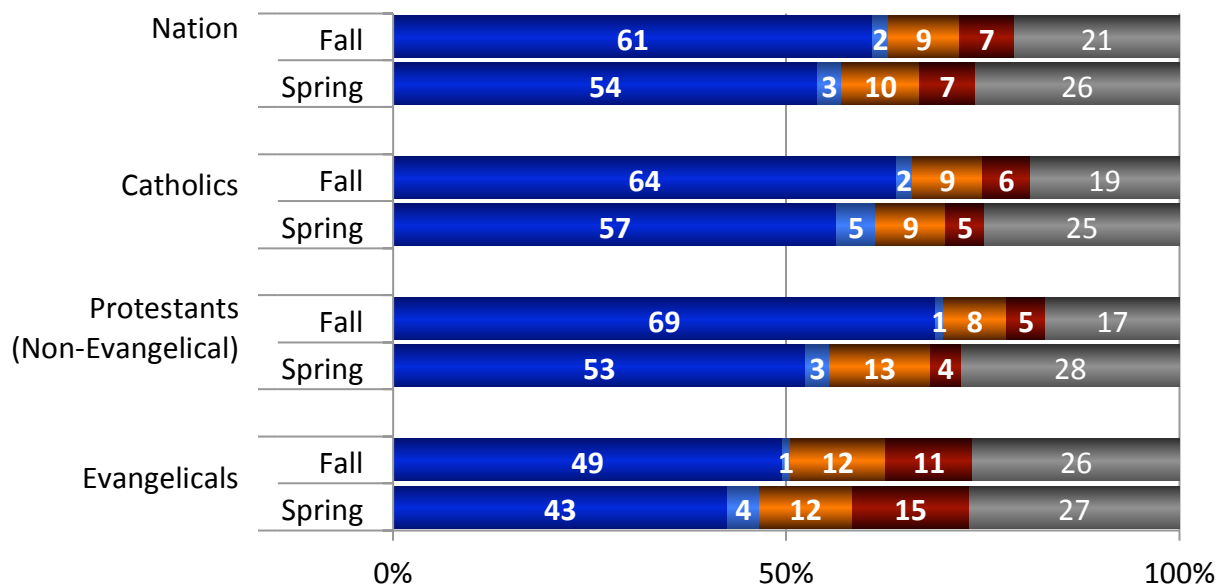


Support Increased for Unilateral U.S. Action to Reduce Global Warming, Regardless of the Actions of Other Countries

- The proportion of Americans who favor U.S. action to reduce global warming, regardless of the actions of other countries has increased by 7 percentage points since the spring.
- One in six Americans now favor action, regardless of other nations' actions.
- The proportion of Catholics who favor action, regardless of other nations' actions, increased by 7 percentage points.

People disagree whether the United States should reduce greenhouse gas emissions on its own, or make reductions only if other countries do so...

- Regardless of what other countries do
- Only if other industrialized countries (such as England, Germany, and Japan) reduce their emissions
- Only if other industrialized countries and developing countries (such as China, India, and Brazil) reduce their emissions
- The U.S. should not reduce its emissions
- Don't know



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.

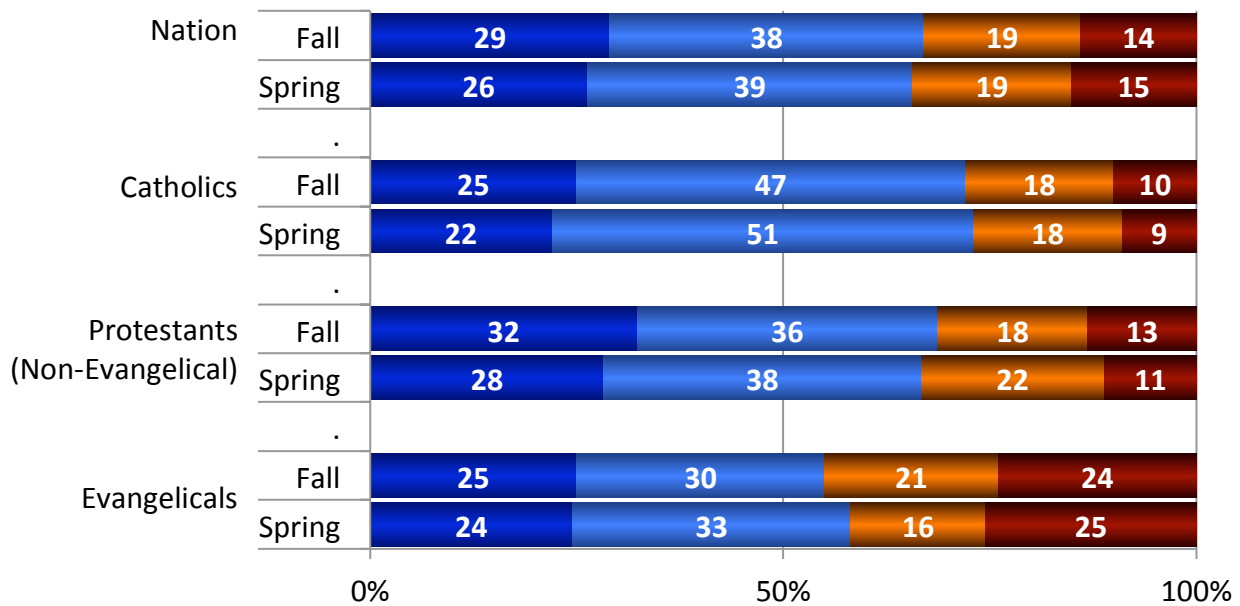


Although a Large Majority of Americans Favor a Medium- to Large-Scale Effort To Reduce Global Warming, Level of Support Did Not Increase

- Two out of three Americans believe the U.S. should mount a large-scale (29%) or medium-scale (38%) effort to reduce global warming, despite the economic costs.
- Support for action did not change appreciably between spring and fall.

How big of an effort should the United States make to reduce global warming?

- A large-scale effort, even if it has large economic costs
- A medium-scale effort, even if it has moderate economic costs
- A small-scale effort, even if it has small economic costs
- No effort



Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



Support for Policies is Largely Unchanged

- Support for renewable energy research increased by two percentage points.
- Support for rebates for energy-efficient vehicles and solar panels did not change.

How much do you support or oppose the following policies?

- **Fund more research into renewable energy sources, such as solar and wind power**

		Strongly support	Somewhat support	Somewhat oppose	Strongly oppose
Nation	Fall	38	44	11	6
	Spring	35	45	11	9
Catholics	Fall	33	50	9	7
	Spring	33	46	13	8
Protestants (Non-Evangelical)	Fall	39	44	11	4
	Spring	31	53	9	6
Evangelicals	Fall	31	45	16	7
	Spring	29	42	15	13

- **Provide tax rebates for energy-efficient vehicles or solar panels**

		Strongly support	Somewhat support	Somewhat oppose	Strongly oppose
Nation	Fall	34	46	13	6
	Spring	34	45	11	9
Catholics	Fall	33	49	13	4
	Spring	36	46	9	8
Protestants (Non-Evangelical)	Fall	36	44	11	7
	Spring	28	53	13	6
Evangelicals	Fall	26	51	15	6
	Spring	27	41	14	17

Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



- Support for the regulation of carbon dioxide did not change.
- Support for setting strict limits on carbon dioxide emissions from coal-fired power plants, which is the cornerstone of the Clean Power Plan, has slightly decreased (-3).

How much do you support or oppose the following policies?

- **Regulate carbon dioxide (the primary greenhouse gas) as a pollutant**

		Strongly support	Somewhat support	Somewhat oppose	Strongly oppose
Nation	Fall	29	47	13	9
	Spring	28	48	12	12
Catholics	Fall	24	50	15	9
	Spring	26	45	18	10
Protestants (Non-Evangelical)	Fall	25	52	15	7
	Spring	22	57	10	10
Evangelicals	Fall	27	42	18	11
	Spring	24	45	11	19

- **Set strict carbon dioxide emission limits on existing coal-fired power plants to reduce global warming and improve public health. Power plants would have to reduce their emissions and/or invest in renewable energy and energy efficiency. The cost of electricity to consumers and companies would likely increase**

		Strongly support	Somewhat support	Somewhat oppose	Strongly oppose
Nation	Fall	20	46	18	14
	Spring	24	45	15	15
Catholics	Fall	21	47	21	10
	Spring	20	49	18	13
Protestants (Non-Evangelical)	Fall	24	43	19	14
	Spring	26	45	18	11
Evangelicals	Fall	14	42	22	20
	Spring	15	41	20	23

Base: Americans 18+ (n=905). March, 2015 & Oct. 2015.



Appendix I: Survey Method

This report is based on findings from a nationally representative panel survey – *Climate Change in the American Mind* – conducted by the Yale Program on Climate Change Communication (<http://environment.yale.edu/climate-communication>) and the George Mason University Center for Climate Change Communication (<http://www.climatechangecommunication.org>).

The first wave of data collection took place February 27 – March 10, 2015. The sample was drawn from GfK’s KnowledgePanel®, an online panel of members drawn using probability sampling methods. Prospective members are recruited using a combination of random digit dial and address-based sampling techniques that cover virtually all (non-institutional) resident phone numbers and addresses in the United States. Those contacted who would choose to join the panel but do not have access to the Internet are loaned computers and given Internet access so they may participate. The sample therefore includes a representative cross-section of American adults – irrespective of whether they have Internet access, use only a cell phone, etc.

All questionnaires were self-administered by respondents in a web-based environment. The survey took, on average, about 26 minutes to complete. A total of 1,263 panel members responded to the survey, for a completion rate of 57.7%.

All 1,263 respondents to the spring, 2015 survey were re-contacted between September 30 and October 19, 2015; 905 responded, for a completion rate of 71.7%. Most of the questions on the re-contact survey had been previously asked in the spring. New questions were added concerning awareness of and reactions to the Pope's Encyclical on climate change and his visit to the U.S. The survey was conducted online and took an average of 22 minutes to complete. For both surveys, key demographic variables were weighted, post survey, to match U.S. Census Bureau norms.

Religious categorization

Assignment to the religion categories used in this report is based on responses to two survey items: (1) What is your religion? (2) Would you describe yourself as “born again” or evangelical? All respondents who identified as Catholic in the first question were coded as “Catholic” for this report (n=222). Respondents who identified as Protestant or Baptist in item 1 but did *not* identify as born again or evangelical in the second question were coded as “Mainline Protestant (Non-Evangelical)” (n=171). Respondents who identified as Protestant, Baptist, Pentecostal, or Other Christian in the first question and also *did* identify as born again or evangelical in the second question were coded as “Evangelical” (n=225).

Total sample size (n=905) is too small to provide reliable estimates of the opinions of a number of other religious groups in the U.S., including Mormons, Eastern Orthodox Christians, Unitarian Universalists, Jews, Muslims, Hindus, and Buddhists, as well as others with no religious affiliation. We hope to provide more information in the future about the beliefs and values of these groups.

Non-responses and rounding

Readers may note that the percentages within some figures do not total 100%. This discrepancy is likely due to one of two reasons: (1) we do not show the percentage of participants that chose not to respond to any given question, and (2) we round percentages to the nearest integer.

Statistical comparison across waves

Two methods were used to compare responses in the spring survey with those in the fall survey. For questions with response options that were strictly categorical (for example the question about awareness of the Papal Encyclical), a chi-square test was conducted to see if the proportion of responses in each category differed between spring and fall. These chi-square tests are reported at the bottom of the relevant tables in Appendix II. A significant chi-square test was denoted with symbols corresponding to the p -value ($***p < .001$; $**p < .01$; $*p < .05$; $+p < .10$), and can be interpreted as evidence that the differences in proportions at each response category between spring and fall are not likely due to chance. A non-significant chi-square indicates that any changes between spring and fall may be due to chance.

For questions with ordered response options, we calculated an average for both the spring and the fall, and conducted paired-samples t -tests. The coding of response options is indicated in a note below the table. Typically respondents who responded "not sure," or who gave no response, were excluded from these analyses; any exceptions are indicated in the note below the table. Significant t -tests are denoted with symbols corresponding to the p -value ($***p < .001$; $**p < .01$; $*p < .05$; $+p < .10$), and can be interpreted as evidence that the difference in the means between spring and fall is not likely due to chance. A non-significant t -test indicates that any difference in the averages between spring and fall may be due to chance. The statistical tests have not been adjusted to account for the large number of comparisons; hence, some differences may reflect chance rather than true change.

Comparison between prior report and this report

Results from the "spring" survey in this report were previously described in the "[Climate Change in the American Christian Mind](#)" report released in March, 2015. It should be noted the "spring" results described in this report will differ slightly from those reported in the previous report, because not all participants from the spring survey participated in the re-contact survey. All spring statistics are restricted to the 905 people who chose to participate in the follow-up survey.

349 people who participated in the original survey did not participate in the follow-up survey, and an additional nine people were excluded from the analyses for failing to answer at least 50% of the questions, or for taking less than 5 minutes to complete the survey. The 905 individuals who participated in both the spring and fall surveys tended to be slightly older, more educated, Christian, Republican, have more trust in the Pope, and less sure that global warming is occurring than those who did not participate (see Table below).

Comparisons of Respondents Who Participated in Both Surveys & Respondents Who Did Not Complete the Fall Survey					
	Dropped Out of Panel	Completed Both Surveys		Dropped Out of Panel	Completed Both Surveys
	(358)	(905)		(358)	(905)
Age			Religion		
• 18-24	10	8	• Catholic	22	25
• 25-34	18	12	• Protestant (non-Evangelical)	15	19
• 35-44	15	14	• Evangelical - Born-Again	24	25
• 45-54	21	17	• Other Christian	10	7
• 55-64	16	22	• Other, non-Christian	3	4
• 65-74	15	19	• Agnostic/Atheist	8	9
• 75+	4	8	• None	18	10
$\chi^2(6) = 23.14^{**}$			$\chi^2(7) = 18.23^*$		
Gender			Party Identification		
• Male	48	50	• Democrat	34	31
• Female	52	50	• Lean Democrat	6	8
$\chi^2(1) = 0.44$			• Independent - Other	11	10
Education			• Lean Republican	7	10
• Less than high school	11	7	• Republican	24	30
• High school	37	31	• No Party/Not Interested	17	11
• Some college	25	30	• Refused	0	0
• Bachelor's degree or higher	28	31	$\chi^2(6) = 14.80^*$		
$\chi^2(3) = 9.29^*$			Race/Ethnicity		
• White, Non-Hispanic	73	77	• Hispanic	12	9
• Black, Non-Hispanic	11	8	• 2+ Races, Non-Hispanic	2	3
• Other, Non-Hispanic	2	3	$\chi^2(4) = 5.18$		

Comparisons of Respondents Who Participated in Both Surveys & Respondents Who Did Not Complete the Fall Survey					
	Dropped Out of Panel	Completed Both Surveys		Dropped Out of Panel	Completed Both Surveys
	(358)	(905)		(358)	(905)
Belief Certainty			Trust in Pope		
• Extremely Sure Not Happening	3	5	• Strongly trust	10	14
• Very Sure Not Happening	6	7	• Somewhat trust	36	38
• Somewhat Sure Not Happening	6	8	• Somewhat distrust	26	25
• Not at All Sure Not Happening	3	2	• Strongly distrust	17	16
• Dont Know/No response	17	18	• No response	3	3
• Not at All Sure Happening	2	2	• Skipped (Never heard of this person)	9	4
• Somewhat Sure Happening	23	24	$\chi^2(5) = 15.51^{**}$		
• Very Sure Happening	23	18			
• Extremely Sure Happening	17	17			
$\chi^2(8) = 9.81$					

APPENDIX: DATA TABLES

PART I: VIEWS OF POPE FRANCIS

Do you have a positive or negative opinion of the Pope?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Very positive	25	32	+7	45	58	+13	27	30	+3	14	19	+5
Moderately positive	28	28	---	30	30	---	30	26	-4	20	24	+4
In between/I have no opinion	40	31	-9	22	11	-11	42	39	-3	48	37	-11
Moderately negative	4	5	+1	2	1	-1	1	4	+3	8	8	---
Very negative	4	4	+1	0	0	---	0	1	+1	10	12	+2
Average score [#]	0.66	0.78	0.12***	1.20	1.46	0.26***	0.81	0.81	0.00	0.19	0.31	0.12+
Standard deviation	1.02	1.09		0.87	0.72		0.84	0.92		1.10	1.22	

[#]Average was calculated with values coded from very negative (-2) to very positive (+2)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you trust or distrust the Pope as a source of information about global warming?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Strongly trust	12	14	+2	25	20	-5	14	16	+2	7	9	+2
Somewhat trust	39	48	+9	40	51	+11	45	52	+7	34	43	+9
Somewhat distrust	29	23	-5	23	21	-2	31	19	-12	30	24	-7
Strongly distrust	17	13	-4	11	6	-5	8	12	+4	23	20	-2
Average score [#]	2.46	2.65	.19***	2.82	2.91	0.09	2.62	2.72	0.10	2.23	2.39	0.16*
Standard deviation	0.94	0.90		0.96	0.81		0.85	0.87		0.92	0.96	

[#]Average was calculated with values coded from strongly distrust (1) to strongly trust (4), excluding those who didn't respond

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



PART II: ISSUE SALIENCE

About how often do you hear about global warming in the media (TV, movies, radio, newspapers/news websites, magazines, etc.)?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
At least once a week	20	27	+7	18	27	+9	20	26	+6	17	20	+3
At least once a month	21	18	-3	19	20	+1	27	27	---	21	15	-6
Several times a year	27	21	-4	35	26	-9	30	16	-14	22	21	-1
Once a year or less	9	11	+2	10	12	+2	3	6	+3	15	15	---
Never	7	9	+2	6	3	-3	6	11	+5	9	14	+5
Not sure	16	13	-3	12	11	-1	14	13	-1	15	13	-2
Chi-Square (df = 6)	22.31**			8.57			11.58*			4.94		
Average score [#]	3.46	3.56	0.10*	3.40	3.66	0.26***	3.63	3.73	0.10	3.23	3.25	0.02
Standard deviation	1.20	1.30		1.10	1.11		1.11	1.28		1.29	1.37	

[#]Average was calculated with values coded from never (1) to at least once a week (5), excluding not sure
 $p < .10$; $p < .05$; $p < .01$; $p < .001$

Note: "Protestants" refers to Non-Evangelical Protestants



About how often do you hear other people you know (your family, friends, co-workers, etc.) talk about global warming?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
At least once a week	3	6	+3	3	3	---	2	7	+5	3	5	+2
At least once a month	12	10	-2	15	15	---	11	9	-2	12	4	-8
Several times a year	22	20	-2	21	20	-1	35	19	-16	14	17	+3
Once a year or less	21	22	+1	21	20	-1	13	28	+15	26	25	-1
Never	27	30	+3	27	30	+3	25	30	+5	33	34	+1
Not sure	13	12	-1	12	12	---	13	6	-7	12	14	+2
Chi-Square (df = 6)		9.62			0.70			22.56**			8.32	
Average score [#]	2.34	2.38	0.04	2.41	2.34	-0.07	2.43	2.44	0.01	2.15	2.08	-0.07
Standard deviation	1.18	1.24		1.20	1.20		1.14	1.27		1.17	1.13	

[#]Average was calculated with values coded from never (1) to at least once a week (5), excluding not sure

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much media coverage, if any, about Pope Francis' views on the following have you seen, read, or heard in the past few months? *Global Warming*

	Nation (905)	Catholics (222)	Protestants (171)	Evangelicals (225)
A lot	9	10	9	7
Some	19	26	19	9
A little	17	20	17	20
None	34	26	38	42
Not Sure	20	17	17	21
Average score [#]	2.04	2.26	1.97	1.74
Standard deviation	1.07	1.04	1.06	1.00

[#]Average was calculated with values coded from none (1) to a lot (4)

Note: "Protestants" refers to Non-Evangelical Protestants



How much media coverage, if any, about Pope Francis' views on the following have you seen, read, or heard in the past few months? *Protecting the Environment*

	Nation (905)	Catholics (222)	Protestants (171)	Evangelicals (225)
A lot	9	11	11	4
Some	21	25	21	18
A little	17	20	18	17
None	33	28	33	42
Not Sure	19	15	17	19
Average score [#]	2.05	2.24	2.06	1.79
Standard deviation	1.06	1.06	1.08	0.97

[#]Average was calculated with values coded from none (1) to a lot (4)

Note: "Protestants" refers to Non-Evangelical Protestants



This [upcoming/past] summer, Pope Francis [is expected to release/released] an Encyclical (a letter sent to all Catholic Bishops worldwide), which [will say/said] that addressing global warming is a high priority for the Catholic Church. Before you read about it in this question, were you aware of this Papal Encyclical about global warming?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Yes	5	19	+14	8	24	+16	4	20	+16	5	13	+8
No	79	61	-18	81	57	-24	75	60	-15	80	65	-15
Not sure	15	19	+4	11	18	+7	20	20	---	14	22	+8
Chi-Square (df = 3)	89.17***			30.01***			14.86**			14.47**		

Note: "Protestants" refers to Non-Evangelical Protestants



How much have you read or heard about the Pope’s Encyclical about global warming?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
I've heard a lot	1	2	+1	1	5	+4	0	1	+1	1	0	-1
I've heard some	3	10	+7	3	11	+8	2	9	+7	2	6	+4
I've only heard a little	2	7	+5	3	8	+5	3	10	+7	1	7	+6
None	93	80	-13	92	75	-17	96	80	-16	94	87	-7
Average score [#]	0.10	0.33	0.23***	0.15	0.47	0.32***	0.06	0.27	.021***	0.10	0.19	0.09*
Standard deviation	0.44	0.75		0.55	0.89		0.30	0.63		0.48	0.56	

[#]Average was calculated with values coded from none (0) to I've heard a lot (4)

Note: "Protestants" refers to Non-Evangelical Protestants



How much, if at all, have the Pope's views on global warming been discussed in your place of worship?

	Nation (905)	Catholics (222)	Protestants (171)	Evangelicals (225)
A lot	1	2	0	0
Some	4	8	4	2
A little	4	8	2	6
None	30	28	34	49
Does not apply to me	45	32	45	24
Not Sure	15	22	15	18
Average score [#]	1.37	1.70	1.26	1.18
Standard deviation	0.75	0.97	0.63	0.50

Proportions of respondents who attend services who've heard Pope's views discussed there (i.e., respondents who replied 'does not apply to me' above have been eliminated)

How much, if at all, have the Pope's views on global warming been discussed in your place of worship?

	Nation (498)	Catholics (149)	Protestants (95)	Evangelicals (166)
A lot	1	3	0	1
Some	7	11	7	3
A little	8	12	3	7
None	56	42	62	65
Not Sure	28	32	28	24

[#]Average was calculated with values coded from none (1) a lot (4)

Note: "Protestants" refers to Non-Evangelical Protestants



How often do you discuss global warming with you family and friends?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Often	2	5	+3	1	1	---	0	3	+3	3	5	+2
Occasionally	23	26	+3	20	25	+5	28	25	-3	19	21	+2
Rarely	38	33	-5	43	38	-5	35	31	-4	36	29	-7
Never	37	36	-1	36	35	-1	37	42	+5	42	45	+3
Average score [#]	1.90	1.99	0.09***	1.88	1.96	0.08+	1.93	1.90	-0.03	1.82	1.85	0.03
Standard deviation	0.84	0.90		0.78	0.84		0.83	0.87		0.84	0.91	

[#]Average was calculated with values coded from never (1) to often (4)

Note: "Protestants" refers to Non-Evangelical Protestants



PART III: SELF-DESCRIBED CHANGES IN OPINIONS

How much impact, if any, has the Pope's position on global warming had on your own views about global warming?

	Nation (905)	Catholics (222)	Protestants (171)	Evangelicals (225)
A lot	3	6	1	1
Some	3	6	3	1
A little	11	23	14	7
Not at all	67	50	74	72
Not sure	14	14	8	15
Average score [#]	1.31	1.65	1.25	1.15
Standard deviation	0.72	0.94	0.58	0.51

Note: Average was calculated from not at all (1) to a lot (4), excluding not sure

Note: "Protestants" refers to Non-Evangelical Protestants



ASKED ONLY IF RESPONDENT ANSWERED "A LITTLE," "SOME," OR "A LOT" TO PRIOR QUESTION

Has the Pope's position on global warming made you...?

	Nation (148)	Catholics (73)	Protestants (28)	Evangelicals (18)
Much more concerned about global warming	18	19	11	11
Moderately more concerned about global warming	32	34	46	22
Neither more nor less concerned about global warming	43	38	36	61
Moderately less concerned about global warming	3	1	4	6
Much less concerned about global warming	0	0	0	0
Not sure	5	7	4	0
Average score [#]	3.74	3.76	3.72	3.49
Standard deviation	0.84	0.82	0.77	0.83

NOTE: SMALL BASE; percentages are restricted to those who were asked the question.

[#]Average was calculated with values coded from much less concerned about global warming (1) to much more concerned about global warming (5), excluding not sure

Note: "Protestants" refers to Non-Evangelical Protestants



PART IV: KEY BELIEFS, FEELINGS AND THOUGHT ABOUT GLOBAL WARMING

On a scale from -3 (very bad) to +3 (very good), do you think global warming is a bad thing or a good thing?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Very bad (-3)	34	33	-1	31	31	---	24	25	+1	26	25	-1
-2	18	20	+2	23	23	---	19	23	+4	14	16	+2
-1	24	25	+1	23	27	+4	22	29	+7	31	28	-3
Never heard of global warming (0)	3	3	---	0	0	---	4	5	+1	3	4	+1
+1	14	13	-1	19	14	-5	19	12	-7	15	18	+3
+2	4	3	-1	3	3	---	9	4	-5	6	6	---
Very good (+3)	2	2	---	0	1	+1	3	1	-2	5	3	-2
Average score [#]	-1.33	-1.51	-0.18***	-1.41	-1.63	-0.22**	-0.90	-1.28	-0.37**	-0.94	-1.09	-0.16+
Standard deviation	1.68	1.52		1.60	1.32		1.82	1.59		1.78	1.70	

[#]Average was calculated with values coded from very bad (-3) to very good (+3), excluding no response

+p<.10; *p<.05; **p<.01; ***p<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much had you thought about global warming before today?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
A lot	14	18	+4	10	13	+3	12	13	+1	9	14	+5
Some	28	28	---	27	32	+5	35	31	-4	27	22	-5
A little	36	37	+1	42	42	---	33	42	+9	35	39	+4
Not at all	22	18	-4	21	13	-8	21	14	-7	28	25	-3
Average score [#]	2.36	2.46	0.10***	2.31	2.47	0.16**	2.42	2.43	0.01	2.18	2.30	0.12+
Standard deviation	0.98	0.98		0.92	0.89		0.95	0.89		0.97	1.01	

[#]Average was calculated with values coded from not at all (1) to a lot (4), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



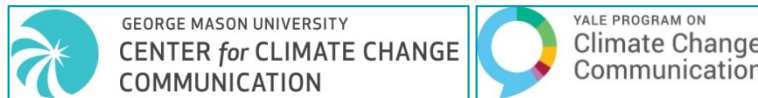
How sure are you that global warming is (is not) happening?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Happening, extremely sure	18	20	+2	14	17	+3	13	11	-2	10	12	+2
Happening, very sure	16	20	+4	17	27	+10	16	21	+5	20	13	-7
Happening, somewhat sure	25	23	-2	32	28	-4	28	23	-5	16	25	+9
Happening, not at all sure	3	3	---	1	2	+1	1	5	+4	5	2	-3
Don't know	19	21	+2	17	16	-1	24	21	-3	20	20	---
Not happening, not at all sure	1	2	+1	5	0	-5	1	4	+3	0	2	+2
Not happening, somewhat sure	8	4	-4	4	4	---	10	6	-4	12	7	-5
Not happening, very sure	6	6	---	7	4	-3	3	6	+3	8	12	+4
Not happening, extremely sure	5	2	-3	3	1	-2	4	3	-1	8	4	-4
Average score [#]	3.24	6.51	0.28***	6.39	6.94	0.56***	6.08	6.03	-0.05	5.49	5.75	0.27*
Standard deviation	2.34	2.18		2.14	1.86		2.24	2.23		2.57	2.41	

[#]Average was calculated with values coded from not happening, extremely sure (1) to happening, extremely sure (9)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Assuming global warming is happening, do you think it is...

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Caused mostly by human activities	52	52	---	57	56	-1	47	43	-4	40	40	---
Caused by human activities and natural changes	5	6	+1	4	6	+2	3	6	+3	3	5	+2
Caused mostly by natural changes in the environment	33	33	---	33	36	+3	42	42	---	35	39	+4
Neither because global warming isn't happening	9	8	-1	5	2	-3	8	8	---	17	15	-2
Other	2	1	-1	1	0	-1	0	0	---	3	2	-1
Don't know	1	1	---	0	0	---	0	0	---	2	0	-2
Chi-Square (df = 5)	5.46			6.59			2.56			6.53		

#Average was not calculated for this variable, rather a chi-square was conducted to identify whether the proportions in each response category changed between the spring and fall
*+p<.10; *p<.05; **p<.01; ***p<.001*

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you think global warming will harm people in the United States?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
A great deal	18	22	+4	12	22	+10	17	23	+6	18	20	+2
A moderate amount	30	35	+5	33	36	+3	36	36	---	23	28	+5
Only a little	19	18	-1	23	22	-1	21	18	-3	19	15	-4
Not at all	17	15	-2	18	14	-4	14	14	---	25	22	-3
Don't know	16	10	-6	13	6	-7	13	8	-5	15	14	-1
Chi-Square (df =4)	17.58**			16.57**			2.51			3.90		
Average score [#]	2.59	2.73	0.14***	2.50	2.75	0.26***	2.57	2.70	0.13+	2.47	2.58	.012+
Standard deviation	1.04	1.00		0.98	0.99		1.02	1.00		1.14	1.08	

[#]Average was calculated with values coded from not at all (1) to a great deal (4), excluding don't know

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you think global warming will harm people in developing countries?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
A great deal	25	34	+9	20	32	+12	21	31	+10	23	27	+4
A moderate amount	23	29	+6	25	30	+5	35	32	-3	20	26	+6
Only a little	18	13	-5	22	18	-4	18	15	-3	20	11	-9
Not at all	15	13	-2	16	13	-3	13	14	+1	23	20	-3
Don't know	17	10	-7	16	6	-10	13	8	-5	14	16	+2
Chi-Square (df =4)	28.51***			18.95**			3.81			8.76+		
Average score [#]	2.74	2.98	0.24***	2.67	2.97	0.30***	2.69	2.88	0.19*	2.57	2.80	0.24**
Standard deviation	1.09	1.06		1.06	1.01		1.02	1.05		1.18	1.14	

[#]Average was calculated with values coded from not at all (1) to a great deal (4), excluding don't know

+p<.10; *p<.05; **p<.01; ***p<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you think global warming will harm future generations of people?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
A great deal	39	50	+11	38	51	+13	39	54	+15	31	35	+4
A moderate amount	21	20	-1	25	23	-2	25	16	-9	19	19	---
Only a little	11	9	-2	13	11	-2	12	9	-3	13	13	---
Not at all	12	11	-1	11	9	-2	8	13	+5	21	18	-3
Don't know	17	10	-7	11	6	-5	16	8	-8	17	16	-1
Chi-Square (df =4)	18.92**			12.90*			11.39*			2.17		
Average score [#]	3.08	3.24	0.16***	3.10	3.31	0.21***	3.08	3.19	0.12	2.76	2.92	0.16**
Standard deviation	1.09	1.05		1.04	0.96		1.02	1.10		1.21	1.13	

[#]Average was calculated with values coded from not at all (1) to a great deal (4), excluding don't know

*+p<.10; *p<.05; **p<.01; ***p<.001*

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you think global warming will harm the world's poor?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
A great deal	28	37	+9	22	33	+11	26	36	+10	26	32	+6
A moderate amount	21	24	+3	20	29	+9	30	22	-8	20	23	+3
Only a little	17	14	-3	22	17	-5	16	18	+2	17	10	-7
Not at all	15	13	-2	18	14	-4	13	15	+2	22	19	-3
Don't know	18	12	-6	16	7	-9	14	9	-5	16	17	+1
Chi-Square (df = 5)	36.30***			21.94**			6.12			7.43		
Average score [#]	2.76	2.99	0.23***	2.63	2.96	0.33***	2.72	2.83	0.11	2.61	2.89	0.28***
Standard deviation	1.12	1.09		1.11	1.03		1.06	1.14		1.17	1.13	

[#]Average was calculated with values coded from not at all (1) to a great deal (4), excluding don't know

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you think global warming will harm the natural environment?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
A great deal	41	49	+8	39	53	+14	43	48	+5	32	33	+1
A moderate amount	22	21	-1	27	22	-5	23	21	-2	16	23	+7
Only a little	10	8	-2	13	10	-3	11	10	-1	15	10	-5
Not at all	12	12	---	10	9	-1	9	14	+5	21	19	-2
Don't know	15	10	-5	10	6	-4	14	8	-6	16	14	-2
Chi-Square (df = 5)	22.01**			15.05*			4.07			6.46		
Average score [#]	3.10	3.21	0.11***	3.11	3.33	0.22***	3.15	3.12	-0.03	2.72	2.89	0.16**
Standard deviation	1.08	1.05		1.00	0.97		1.03	1.09		1.21	1.14	

[#]Average was calculated with values coded from not at all (1) to a great deal (4), excluding don't know

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



When do you think global warming will start to harm people in the United States?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
They are being harmed right now	32	32	---	29	31	+2	31	30	-1	24	22	-2
In 10 years	10	13	+3	9	13	+4	12	12	---	10	13	+3
In 25 years	12	15	+3	13	18	+5	12	16	+4	11	12	+1
In 50 years	12	12	---	16	17	+1	9	8	-1	11	13	+2
In 100 years	15	13	-2	19	11	-8	19	19	---	14	12	-2
Never	19	14	-5	13	9	-4	18	16	-2	30	27	-3
Average score [#]	3.76	3.95	0.19***	3.85	4.11	0.26*	3.76	3.77	0.01	3.30	3.41	0.12
Standard deviation	1.93	1.84		1.79	1.66		1.93	1.91		1.99	1.93	

[#]Average was calculated with values coded from never (1) to they are being harmed right now (6)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How worried are you about global warming?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Very worried	11	15	+4	6	13	+7	6	11	+5	6	10	+4
Somewhat worried	40	44	+4	47	51	+4	41	46	+5	33	33	---
Not very worried	30	24	-6	30	25	-5	35	28	-7	31	28	-3
Not at all worried	19	17	-2	17	11	-6	18	16	-2	31	28	-3
Average score [#]	2.43	2.58	0.15***	2.46	2.70	0.23***	2.36	2.50	0.14**	2.14	2.28	0.14**
Standard deviation	0.92	0.94		0.84	0.83		0.85	0.89		0.94	0.99	

[#]Average was calculated with values coded from not at all worried (1) to very worried (4)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How important is the issue of global warming to you personally?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Extremely important	5	8	+3	2	5	+3	3	4	+1	6	7	+1
Very important	14	18	+4	13	18	+5	11	16	+5	14	14	---
Somewhat important	36	35	-1	40	34	-6	45	40	-5	29	29	---
Not too important	25	23	-2	27	32	+5	25	23	-2	22	21	-1
Not at all important	20	17	-3	18	11	-7	16	17	+1	29	29	---
Average score [#]	2.60	2.79	0.19***	2.58	2.79	0.21***	2.61	2.67	0.06	2.46	2.51	0.05
Standard deviation	1.13	1.16		1.02	1.03		1.02	1.07		1.22	1.24	

[#]Average was calculated with values coded from not at all important (1) to extremely important (5)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



To the best of your knowledge, what percentage of climate scientists think that human-caused global warming is happening?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Average score [#]	64.20	66.72	2.51**	61.51	68.23	6.72***	61.46	62.51	1.04	52.18	57.97	5.79**
Standard deviation	23.45	23.62		21.52	20.53		21.40	22.48		21.35	26.43	
Don't know enough to say	28	26	-2	28	18	-10	23	30	+7	32	36	+4

[#]Participants gave a number between 0 and 100%, averages excluded no response and "don't know enough to say"

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Which of the following statements comes closest to your view?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Humans can reduce global warming, and we are going to do so successfully	7	4	-3	6	4	-2	5	1	-4	8	6	-2
Humans could reduce global warming, but it's unclear at this point whether we will do what's needed	43	46	+3	44	51	+7	50	54	+4	30	32	+2
Humans could reduce global warming, but people aren't willing to change their behavior, so we're not going to	24	22	-2	31	23	-8	14	16	+2	25	20	-5
Humans can't reduce global warming, even if it is happening	14	17	+3	12	18	+6	19	14	-5	16	22	+6
Global warming isn't happening	12	10	-1	8	4	-4	11	14	+3	20	20	---
Average score [#]	3.18	3.15	-0.03	3.31	3.35	0.04	3.20	3.13	-0.07	2.89	2.79	-0.11
Standard deviation	1.13	1.10		0.99	0.93		1.14	1.15		1.28	1.25	

[#]Average was calculated with values coded from global warming isn't happening (1) to humans can reduce global warming, and we are going to do so successfully (5), excluding no response

*+p<.10; *p<.05; **p<.01; ***p<.001*

Note: "Protestants" refers to Non-Evangelical Protestants



I have personally experienced the effects of global warming.

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Strongly agree	2	7	+5	2	4	+2	2	4	+2	4	9	+5
Somewhat agree	26	26	---	20	25	+5	27	23	-4	19	22	+3
Somewhat disagree	30	30	---	34	32	-2	33	39	+6	30	19	-11
Strongly disagree	42	37	-5	43	39	-4	38	35	-3	47	49	+2
Average score [#]	1.90	2.02	0.12***	1.86	1.97	0.10+	1.91	1.92	0.01	1.78	1.88	0.10
Standard deviation	0.88	0.94		0.84	0.88		0.86	0.84		0.89	1.02	

[#]Average was calculated with values coded from strongly disagree (1) to strongly agree (4), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



PART V: ISSUE FRAMES & OTHER MORAL VIEWS

In your opinion, if the world takes action to reduce global warming, will it help the natural environment?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Yes, it will help a lot	42	42	---	40	44	+4	42	36	-6	38	37	-1
Yes, it will help a moderate amount	20	18	-2	22	24	+2	21	15	-6	15	13	-2
Yes, it will help a little	14	14	---	20	12	-8	16	22	+6	10	18	+8
No, it will not help	10	11	+1	8	9	+1	9	9	---	18	19	+1
Not sure	13	14	+1	9	10	+1	12	18	+6	19	13	-6
Chi-Square (df = 5)	3.66			5.40			5.15			5.78		
Average score [#]	3.14	3.15	0.01	3.14	3.21	0.07	3.13	2.97	-0.16+	2.94	2.93	-0.01
Standard deviation	1.04	1.05		0.99	0.99		1.02	1.08		1.19	1.21	

[#]Average was calculated with values coded from no, it will not help (1) to yes, it will help a lot (4), excluding not sure and no response
*+p<.10; *p<.05; **p<.01; ***p<.001*

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, if the world takes action to reduce global warming, will it help the world's poor?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Yes, it will help a lot	14	18	+4	12	18	+6	14	13	-1	15	19	+4
Yes, it will help a moderate amount	18	15	-4	18	13	-5	22	14	-8	14	10	-4
Yes, it will help a little	20	22	+2	28	22	-6	17	23	+6	10	19	+9
No, it will not help	26	23	-3	26	23	-3	29	24	-5	34	33	-1
Not sure	21	21	---	14	22	+8	18	26	+8	26	19	-7
Chi-Square (df = 5)	10.83+			11.69*			7.89+			9.92+		
Average score [#]	2.27	2.41	0.14**	2.24	2.44	0.20**	2.26	2.16	-0.10	2.06	2.19	0.13
Standard deviation	1.11	1.17		1.06	1.17		1.12	1.10		1.17	1.22	

[#]Average was calculated with values coded from no, it will not help (1) to yes, it will help a lot (4), excluding not sure and no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, if the world takes action to reduce global warming, will it help future generations of people?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Yes, it will help a lot	42	42	---	40	47	+7	43	40	-3	39	29	-10
Yes, it will help a moderate amount	19	17	-2	21	21	---	19	13	-6	13	15	+2
Yes, it will help a little	12	15	+3	18	13	-5	12	22	+10	9	20	+11
No, it will not help	11	10	-1	9	9	---	14	8	-6	19	17	-2
Not sure	14	14	---	10	9	-1	11	18	+7	19	17	-2
Chi-Square (df = 5)	3.23			3.01			10.64+			9.50+		
Average score [#]	3.14	3.14	-0.01	3.12	3.21	0.09+	3.12	3.07	-0.06	2.97	2.79	-0.19**
Standard deviation	1.05	1.06		1.02	1.00		1.04	1.06		1.20	1.20	

[#]Average was calculated with values coded from no, it will not help (1) to yes, it will help a lot (4), excluding not sure and no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Please indicate whether the first statement or the second statement comes closer to your own views - even if neither is exactly right.

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
It is humankind's responsibility to protect and care for the Earth and its natural resources	75	73	-2	80	81	+1	79	72	-7	67	61	-6
It is humankind's right to use the Earth and its natural resources for our own benefit	8	9	+1	8	7	-1	4	8	+4	14	16	+2
Not sure	11	16	+5	8	12	+6	10	18	+8	11	20	+9
No response	6	2	-4	4	0	-4	6	3	-3	7	2	-5
Chi-Square (df = 3)	22.63***			9.77*			6.61+			10.73*		

+p<.10; *p<.05; **p<.01; ***p<.001

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is an environmental issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	67	68	+1	70	75	+5	70	65	-5	56	58	+2
Minor issue	8	8	---	5	8	+3	6	6	---	12	12	---
Not an issue	23	22	-1	23	15	-8	24	28	+4	30	30	---
Average score [#]	1.44	1.46	0.02	1.50	1.62	0.12*	1.46	1.34	-0.12	1.24	1.26	0.03
Standard deviation	0.85	0.84		0.84	0.73		0.85	0.91		0.91	0.90	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

In your opinion, do you think global warming is a moral issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	17	24	+7	18	23	+5	21	23	+2	12	17	+5
Minor issue	15	14	-1	16	19	+3	11	14	+3	14	13	-1
Not an issue	65	60	-5	64	57	-7	67	63	-4	73	69	-4
Average score [#]	0.53	0.65	0.12***	0.57	0.68	0.11*	0.54	0.57	0.04	0.38	0.49	0.11*
Standard deviation	0.79	0.86		0.82	0.84		0.82	0.83		0.69	0.78	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+ $p < .10$; * $p < .05$; ** $p < .01$; *** $p < .001$

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is a religious issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	5	6	+1	3	5	+2	8	5	-3	9	10	+1
Minor issue	3	6	+3	3	8	+5	3	9	+6	4	6	+2
Not an issue	90	87	-3	93	87	-6	89	86	-3	86	83	-3
Average score [#]	0.14	0.18	0.05*	0.09	0.18	0.10**	0.20	0.22	0.02	0.22	0.26	0.04
Standard deviation	0.47	0.52		0.37	0.50		0.58	0.55		0.61	0.63	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

In your opinion, do you think global warming is a spiritual issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	5	7	+2	6	7	+1	6	6	---	7	13	+6
Minor issue	6	8	+2	6	7	+1	7	9	+2	8	7	-1
Not an issue	87	84	-3	86	86	---	87	86	-1	83	80	-3
Average score [#]	0.17	0.24	0.07**	0.19	0.02	0.04	0.21	0.23	0.02	0.21	0.33	0.12*
Standard deviation	0.50	0.58		0.54	0.58		0.55	0.57		0.55	0.70	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is a social justice (fairness) issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	12	18	+6	13	13	---	13	19	+6	7	18	+11
Minor issue	9	11	+2	8	12	+4	11	12	+1	10	9	-1
Not an issue	77	69	-8	78	74	-4	76	69	-7	81	72	-9
Average score [#]	0.34	0.49	0.15***	0.35	0.41	0.06	0.37	0.50	0.13+	0.26	0.46	0.21***
Standard deviation	0.68	0.79		0.71	0.73		0.70	0.79		0.58	0.79	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

In your opinion, do you think global warming is a political issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	35	38	+3	33	34	+1	29	35	+6	38	38	---
Minor issue	15	16	+1	15	24	+9	14	16	+2	18	16	-2
Not an issue	48	45	-3	50	40	-10	57	49	-8	41	44	+3
Average score [#]	0.87	0.94	0.07+	0.85	0.95	0.10	0.74	0.86	0.12	0.95	0.94	-0.02
Standard deviation	0.91	0.91		0.91	0.87		0.89	0.91		0.90	0.92	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is a scientific issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Major issue	61	62	+1	64	67	+3	62	67	+5	53	53	---
Minor issue	11	12	+1	13	12	-1	6	6	---	14	13	-1
Not an issue	26	25	-1	21	20	-1	32	26	-6	31	32	+1
Average score [#]	1.35	1.37	0.02	1.42	1.50	0.08	1.29	1.36	0.07	1.23	1.19	-0.03
Standard deviation	0.87	0.86		0.83	0.80		0.92	0.90		0.90	0.91	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

In your opinion, do you think global warming is a health issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Major issue	41	49	+8	39	54	+15	39	50	+11	34	38	+4
Minor issue	16	14	-2	24	18	-6	17	9	-8	14	12	-2
Not an issue	40	36	-4	34	27	-7	44	40	-4	49	50	+1
Average score [#]	1.01	1.12	0.11***	1.07	1.30	0.23***	0.96	1.10	0.14	0.82	0.88	0.06
Standard deviation	0.92	0.92		0.87	0.85		0.92	0.95		0.91	0.93	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+p<.10; *p<.05; **p<.01; ***p<.001

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is a lifestyle issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	37	38	+1	35	44	+9	38	31	-7	32	37	+5
Minor issue	19	20	+1	25	24	-1	19	22	+3	12	11	-1
Not an issue	42	40	-2	38	31	-7	42	47	+5	53	52	-1
Average score [#]	0.94	0.99	0.06+	1.00	1.16	0.16**	0.95	0.82	-0.13	0.76	0.86	0.10+
Standard deviation	0.90	0.89		0.85	0.86		0.91	0.86		0.91	0.93	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

In your opinion, do you think global warming is an economic issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	44	47	+3	42	51	+9	50	52	+2	33	37	+4
Minor issue	16	16	---	14	17	+3	14	11	-3	22	20	-2
Not an issue	38	36	-2	42	31	-11	36	38	+2	43	42	-1
Average score [#]	1.04	1.10	0.06+	1.02	1.19	0.17*	1.10	1.12	0.02	0.89	0.95	0.06
Standard deviation	0.91	0.91		0.93	0.89		0.92	0.94		0.87	0.89	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is a national security issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	14	16	+2	13	12	-1	14	19	+5	14	15	+1
Minor issue	9	10	+1	9	11	+2	8	11	+3	7	11	+4
Not an issue	75	72	-3	76	75	-1	77	70	-7	77	73	-4
Average score [#]	0.38	0.42	0.04+	0.34	0.37	0.03	0.38	0.46	0.09	0.39	0.41	0.02
Standard deviation	0.72	0.74		0.70	0.70		0.74	0.78		0.75	0.74	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

In your opinion, do you think global warming is an agricultural issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Major issue	53	54	+1	48	60	+12	57	53	-4	47	42	-5
Minor issue	10	11	+1	14	12	-2	4	9	+5	11	13	+2
Not an issue	35	34	-1	37	26	-11	38	38	---	40	44	+4
Average score [#]	1.16	1.21	0.06+	1.11	1.36	0.24***	1.17	1.13	-0.03	1.03	0.98	-0.06
Standard deviation	0.94	0.92		0.92	0.87		0.96	0.94		0.95	0.93	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+ $p < .10$; * $p < .05$; ** $p < .01$; *** $p < .001$

Note: "Protestants" refers to Non-Evangelical Protestants



In your opinion, do you think global warming is a poverty issue?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Major issue	13	17	+4	14	16	+2	13	15	+2	13	13	---
Minor issue	8	9	+1	8	8	---	8	11	+3	7	7	---
Not an issue	77	72	-5	77	75	-2	80	74	-6	78	80	+2
Average score [#]	0.35	0.45	0.10***	0.37	0.41	0.04	0.31	0.40	0.09	0.34	0.35	0.01
Standard deviation	0.71	0.77		0.72	0.75		0.68	0.73		0.70	0.72	

[#]Average was calculated with values coded from not an issue (0) to major issue (2)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



PART VI: SUPPORT FOR ACTION ON GLOBAL WARMING

Do you think: Global warming should be a low, medium, high, or very high priority for the president and Congress?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Very high	16	18	+2	13	16	+3	9	12	+3	14	13	-1
High	28	28	---	27	27	---	38	32	-6	24	21	-3
Medium	30	29	-1	37	38	+1	35	39	+4	28	26	-2
Low	26	24	-2	23	19	-4	18	17	-1	33	40	+7
Average score [#]	2.37	2.43	0.06*	2.37	2.44	0.07	2.38	2.38	0.00	2.20	2.11	-0.09
Standard deviation	1.04	1.06		0.99	0.99		0.91	0.92		1.08	1.08	

[#]Average was calculated with values coded from Low (1) to Very high (4), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Do you think each of the following should be doing more or less to address global warming? The U.S. Congress

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Much more	23	24	+1	17	18	+1	21	17	-4	17	18	+1
More	34	34	---	45	42	-3	32	40	+8	33	29	-4
Currently doing the right amount	25	21	-4	17	21	+4	33	27	-6	27	23	-4
Less	8	11	+3	9	9	---	6	11	+5	10	14	+4
Much less	10	9	-1	10	10	---	8	6	-2	13	16	+3
Average score [#]	3.56	3.55	0.00	3.56	3.54	-0.02	3.51	3.51	-0.01	3.30	3.19	-0.12
Standard deviation	1.21	1.24		1.17	1.20		1.13	1.10		1.26	1.35	

[#]Average was calculated with values coded from much less (1) to much more (5), excluding no response
 +*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Do you think each of the following should be doing more or less to address global warming? President Obama

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Much more	15	16	+1	14	11	-3	8	14	+6	13	12	-1
More	35	33	-2	42	40	-2	36	29	-8	36	28	-8
Currently doing the right amount	28	31	+3	23	28	+5	33	35	+2	24	31	+7
Less	8	8	---	9	8	-1	6	8	+2	11	12	+1
Much less	13	12	-1	12	12	---	16	13	-3	16	18	+2
Average score [#]	3.32	3.33	0.01	3.44	3.34	-0.10	3.17	3.24	0.08	3.19	3.05	-0.14+
Standard deviation	1.22	1.20		1.17	1.14		1.19	1.20		1.29	1.29	

[#]Average was calculated with values coded from much less (1) to much more (5), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Do you think each of the following should be doing more or less to address global warming? Corporations and industry

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Much more	34	34	---	39	33	-6	30	28	-2	23	27	+4
More	32	37	+5	34	45	+11	31	43	+12	38	31	-7
Currently doing the right amount	22	17	-5	14	8	-6	28	20	-8	23	26	+3
Less	6	7	+1	8	10	+2	5	4	-1	6	8	+2
Much less	6	5	-1	5	4	-1	5	4	-1	10	7	-3
Average score [#]	3.85	3.90	0.05	4.01	3.97	-0.05	3.80	3.86	0.06	3.64	3.64	0.00
Standard deviation	1.14	1.09		1.11	1.07		1.08	1.01		1.16	1.19	

[#]Average was calculated with values coded from much less (1) to much more (5), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



Do you think each of the following should be doing more or less to address global warming? Citizens themselves

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Much more	22	23	+2	23	22	-1	19	14	-5	15	21	+6
More	41	41	---	47	47	---	42	43	+1	39	35	-4
Currently doing the right amount	24	24	---	19	19	---	30	35	+5	28	25	-3
Less	6	7	+1	5	8	+3	5	3	-2	8	11	+3
Much less	7	5	-2	6	4	-2	5	5	---	9	8	-1
Average score [#]	3.68	3.71	0.03	3.78	3.77	-0.01	3.67	3.57	-0.10	3.45	3.50	0.05
Standard deviation	1.09	1.06		1.03	1.02		0.99	0.97		1.14	1.19	

[#]Average was calculated with values coded from much less (1) to much more (5), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



The United States should reduce its greenhouse gas emissions...

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Regardless of what other countries do	54	61	+7	57	64	+7	53	69	+16	43	49	+6
Only if other industrialized countries (such as England, Germany, and Japan) reduce their emissions	3	2	-1	5	2	-3	3	1	-2	4	1	-3
Only if other industrialized countries and developing countries (such as China, India, and Brazil) reduce their emissions	10	9	-1	9	9	---	13	8	-5	12	12	---
The U.S. should not reduce its emissions	7	7	---	5	6	+1	4	5	+1	15	11	-4
Don't know	26	21	-5	25	19	-6	28	17	-11	27	26	-1
Chi-Square (df = 5)		9.07			2.54			7.98			6.42	
Average score [#]	3.46	3.52	0.06*	3.53	3.62	0.09	3.50	3.67	0.16*	3.21	3.20	-0.01
Standard deviation	1.00	0.97		0.92	0.85		0.95	0.86		1.12	1.19	

[#]Average was calculated with values coded from "The U.S. should not reduce its emissions" (1) to "Regardless of what other countries do" (4), excluding no response and don't know

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How big of an effort should the United States make to reduce global warming?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
A large-scale effort, even if it has large economic costs	26	29	+3	22	25	+3	28	32	+4	24	25	+1
A medium-scale effort, even if it has moderate economic costs	39	38	-1	51	47	-4	38	36	-2	33	30	-3
A small-scale effort, even if it has small economic costs	19	19	---	18	18	---	22	18	-4	16	21	+5
No effort	15	14	-1	9	10	+1	11	13	+2	25	24	-1
Average score [#]	2.80	2.84	0.04	2.90	2.89	-0.01	2.89	2.88	-0.01	2.55	2.56	0.01
Standard deviation	1.00	1.01		0.87	0.90		0.96	1.01		1.11	1.12	

[#]Average was calculated with values coded from No effort (1) to A large scale effort, even if it has large economic costs (4), excluding no response

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you support or oppose the following policies: Regulate carbon dioxide (the primary greenhouse gas) as a pollutant?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Strongly support	28	29	+1	26	24	-2	22	25	+3	24	27	+3
Somewhat support	48	47	-1	45	50	+5	57	52	-5	45	42	-3
Somewhat oppose	12	13	+1	18	15	-3	10	15	+5	11	18	+7
Strongly oppose	12	9	-3	10	9	-1	10	7	-3	19	11	-8
Average score [#]	2.95	2.97	0.02	2.93	2.92	0.00	2.95	2.96	0.01	2.78	2.87	0.09
Standard deviation	0.93	0.89		0.91	0.87		0.86	0.83		1.03	0.95	

[#]Average was calculated with values coded from strongly oppose (1) to strongly support (4)

*+p<.10; *p<.05; **p<.01; ***p<.001*

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you support or oppose the following policies: Fund more research into renewable energy sources, such as solar and wind power?

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Strongly support	35	38	+3	33	33	---	31	39	+8	29	31	+2
Somewhat support	45	44	-1	46	50	+4	53	44	-9	42	45	+3
Somewhat oppose	11	11	---	13	9	-4	9	11	+2	15	16	+1
Strongly oppose	9	6	-3	8	7	-1	6	4	-2	13	7	-6
Average score [#]	3.07	3.15	0.08**	3.07	3.13	0.06	3.12	3.19	0.07	2.86	3.01	0.15*
Standard deviation	0.90	0.84		0.88	0.82		0.80	0.81		1.00	0.88	

[#]Average was calculated with values coded from strongly oppose (1) to strongly support (4)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you support or oppose the following policies: *Provide tax rebates for people who purchase energy-efficient vehicles or solar panels?*

	Nation (905)			Catholics (222)			Mainline Protestants (171)			Evangelicals (225)		
	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %	Spring %	Fall %	Change %
Strongly support	34	34	---	36	33	-3	28	36	+8	27	26	-1
Somewhat support	45	46	+1	46	49	+3	53	44	-9	41	51	+10
Somewhat oppose	11	13	+2	9	13	+4	13	11	-2	14	15	+1
Strongly oppose	9	6	-3	8	4	-4	6	7	+1	17	6	-11
Average score [#]	3.05	3.09	0.05	3.14	3.15	0.01	3.04	3.11	0.07	2.77	2.97	0.20**
Standard deviation	0.91	0.85		0.88	0.78		0.82	0.89		1.03	0.83	

[#]Average was calculated with values coded from strongly oppose (1) to strongly support (4)

+*p*<.10; **p*<.05; ***p*<.01; ****p*<.001

Note: "Protestants" refers to Non-Evangelical Protestants



How much do you support or oppose the following policies: *Set strict carbon dioxide emission limits on existing coal-fired power plants to reduce global warming and improve public health. Power plants would have to reduce their emissions and/or invest in renewable energy and energy efficiency. The cost of electricity to consumers and companies would likely increase.*

	Nation (905)			Catholics (222)			Protestants (171)			Evangelicals (225)		
	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change	Spring	Fall	Change
	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	24	20	-4	20	21	+1	26	24	-2	15	14	-1
Somewhat support	45	46	+1	49	47	-2	45	43	-2	41	42	+1
Somewhat oppose	15	18	+3	18	21	+3	18	19	+1	20	22	+2
Strongly oppose	15	14	-1	13	10	-3	11	14	+3	23	20	-3
Average score [#]	2.80	2.73	-0.07**	2.82	2.80	-0.02	2.88	2.78	-0.09	2.48	2.49	0.01
Standard deviation	0.97	0.95		0.93	0.89		0.91	0.96		1.02	1.00	

[#]Average was calculated with values coded from strongly oppose (1) to strongly support (4)

+p<.10; *p<.05; **p<.01; ***p<.001

Note: "Protestants" refers to Non-Evangelical Protestants

