Adapting to Climate Change & Sea Level Rise

A Maryland Statewide Survey | Fall 2014



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Executive Summary

Sea levels off of Maryland's shorelines have risen about one foot over the past 100 years¹ – almost twice the global average – and are climbing at increasing rates.² With nearly 1 million residents at risk from even 2 feet of higher sea levels,³ which projections say is possible by 2050,⁴ Maryland is one of the states most at risk from rising waters. State government – in addition to local governments, businesses and all manner of private- and public-sector organizations – have begun to take measures to ensure that the state's citizens, infrastructure, and natural resources and habitat are protected from flooding, erosion and saltwater intrusion into groundwater.⁵ Moreover, climate change will not just impact the state's coastal regions; more frequent heavy rain events, droughts, high heat days, and weather extremes will likely be felt in communities across the state.⁶

Last spring, George Mason University partnered with the Maryland Department of Health and Mental Hygiene on the first survey of climate change, energy and public health in the state. The survey included questions on Marylanders' perceptions of climate change's impacts on their communities and policy preferences. In 2014, we repeated some of the questions and added new ones, including a number on sea level rise and state adaptation policies. This report is the first of four that will be released from the 2014 survey; follow-on reports will highlight attitudes, behaviors and policy preferences on public health and climate change, energy, and climate change generally.

While many of the survey questions we asked Marylanders focused on sea level rise due to the prominence of its impacts on the state, we also asked more broadly about perceived climate

http://cnsmaryland.org/sealevelrise/?p=62

¹ Maryland Commission on Climate Change. (2008). *Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change, Phase I: Sea Level Rise and Coastal Storms*. Report of the Maryland Commission on Climate Change Adaptation and Response Working Group. Maryland Department of Natural Resources, Annapolis, MD; Maryland Department of the Environment, Baltimore, MD; Maryland Department of Planning, Baltimore, MD.

² Sallenger Jr., A. H., Doran, K. S., & Howd, P. A. (2012). Hotspot of accelerated sea-level rise on the Atlantic coast of North America. *Nature Climate Change*, 2(12), 884–888.

³ Goldner, B. (2013). *Rising seas, sinking land put Maryland's waterfront communities at risk*. Capital News Service. Phillip Merrill College of Journalism, University of Maryland. Available at

⁴ Boesch, D., Atkinson, L., Boicourt, W., Boon, J. D., Cahoon, D., Dalrymple, R., Ezer, T., Horton, B., Johnson, Z., Kopp, R., Li, M., Moss, R., Parris, A., & Sommerfield, C. (2013). *Updating Maryland's Sea-level Rise Projections*. Special Report of the Scientific and Technical Working Group to the Maryland Climate Change Commission. University of Maryland Center for Environmental Science, Cambridge, MD.

⁵ Johnson, Z. P. (ed.). (2013). Climate Change and Coast Smart Construction: Infrastructure Siting and Design Guidelines. Special Report of the Adaptation Response Working Group of the Maryland Commission on Climate Change. Maryland Department of Natural Resources, Annapolis, MD.

⁶ Boicourt, K., & Johnson, Z. P. (eds.). (2010). *Comprehensive Strategy for Reducing Maryland's Vulnerability to Climate Change, Phase II: Building societal, economic, and ecological resilience. Report of the Maryland Commission on Climate Change, Adaptation and Response and Scientific and Technical Working Groups.* University of Maryland Center for Environmental Science, Cambridge, Maryland and Maryland Department of Natural Resources, Annapolis, Maryland.

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harms to local resources and preferred policies to protect communities that are applicable to all of the state's counties.

Key findings include:

A majority support protecting Maryland from rising waters

- More than half of Marylanders (55%) say that protecting coastal areas from sea level rise should be a high or very high priority for the state's General Assembly and the Governor.
- A majority of state residents support policies that protect shorelines and low-lying lands from sea level rise, such as changes to regulations like zoning laws and set-back distances for building (67%), long-range planning (66%), tax incentives to property owners to take protective actions (55%), and using government funds to buy natural areas as buffers against rising waters and storms (55%).

Many Marylanders don't know that sea level rise is happening locally, or its cause

- A majority of survey respondents (53%) say that they do not know whether sea level rise is currently happening along Maryland's shorelines. Of those who state an opinion, more think it is happening (39%) than think it isn't (8%).
- More than a third of state residents (36%) say they do not know what is causing sea levels to rise – whether it is from natural causes or human activities. Almost a quarter (23%) say that sea level rise is about equally the result of both natural and human influences on the environment. The rest of Marylanders are split between which of the two are a stronger influence on sea level rise (human activities, 18%; natural changes, 17%).
- A majority of Marylanders say that climate change is at least partially responsible for sea level rise at least a little (5%), if not some (22%), or a lot (34%).

There is strong support for state climate protection actions

- Almost three quarters of Marylanders (73%) say they would like local and state governments to take actions to protect their communities against climate harms.
- Most state residents support a number of policies to protect communities against the effects of climate change, and only a very small percentage oppose them. Increasing trees in urban areas (82%), maintaining and restoring natural areas (80%), and helping Maryland's farmers become more water efficient (78%) are at the top of the list.

Marylanders see looming local climate changes and impacts to community resources

• Across the state, hotter weather (77%) and more severe storms (72%) are mentioned the most frequently as likely impacts from climate change that will occur in Marylanders' communities in the next 10-20 years.

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 Agriculture (56%), people's health (55%), and coastlines (53%) are the types of resources that Marylanders are most likely to say are at risk from climate change in the next several years.

Study methodology

The survey was mailed to 6,401 households in the state of Maryland, randomly selected from within each of four regions of the state. (See Figure 1) We sampled at the regional level to ensure the final data was generalizable to these distinctly different geographic and cultural areas of the state, as well as to the state as a whole, weighting the data at both the state and regional levels in accordance with U.S. Census population distributions. Households that responded to the survey in 2013 were not re-contacted in 2014. The survey was fielded from March 17 to June 10, 2014 with a response rate of 35%. The unweighted sample margin of error is +/- 2 percentage points at the 95% confidence interval for the state and less than +/- 5 percentage points for each region. (See study methodology, p. 15). This report includes survey data from 2013 as a basis for comparison; statistical comparisons between years were assessed for significance. Survey reports from 2013 can be found at climatemaryland.org and include a description of the sample and methodology. Both were consistent across years.





Western Region – Allegany, Frederick, Garrett and Washington counties; Central Region – Baltimore, Carroll, Cecil, Harford, Howard, Montgomery counties and Baltimore City; Southern Region – Anne Arundel, Calvert, Charles, Prince George's and St. Mary's counties; Eastern Region – Caroline, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico and Worcester counties.

1. A majority support protecting Maryland from rising waters

In 2014, Maryland issued new guidelines for resilient state construction against sea level rise and coastal flooding,⁷ and passed two bills that bolster climate adaptation efforts.⁸ Indeed, more than half of Marylanders (55%) say that protecting coastal areas from sea level rise should be a high or very high priority for the state's General Assembly and the Governor. (See Figure 2). Though coastal protection ranks lower than many other state priorities – such as creating jobs (89%), reducing water pollution (81%), and improving access to health care (74%) – very few people (5%) say it should not be a priority. Moreover, majorities of three of the state's four regions – Central (56%), Southern (58%) and Eastern (56%) – say that the state should make it a top priority. (See Table 1, Appendices, p. 21) You will note that throughout this report we highlight regional differences in the survey results. The four regions of the state have varying levels of coastal exposure to sea level rise and likely climate impacts. The Western region, located in the hills of Appalachia, lies completely inland, while long coastlines along the Chesapeake Bay and Atlantic Ocean are prominent features of the Southern and Eastern regions. The Bay also fronts Cecil, Harford, and Baltimore counties and Baltimore City in the Central region.

Changes to regulations and long-range planning are the most preferred policy responses

When presented with a list of five strategies for protecting communities from sea level rise impacts, Marylanders are more supportive than not of all of them, with majorities backing four of the five approaches: changes to regulations like zoning laws and set-back distances (67%), long-range planning (66%), tax incentives to property owners to take protective actions (55%), and using government funds to buy natural areas as buffers against rising waters and storms (55%). (See Figure 3) Residents are least likely to favor building walls and other structural barriers against coastal waters, with almost a quarter opposed (23%). Notably, significant numbers of Marylanders remain undecided on these policies; a quarter or more (24-29%) say they have no position.

Of the five types of sea level rise policies presented, all four regions of the state most strongly support changes in regulations, such as zoning laws and increased set-back distances to discourage building in vulnerable areas (Western, 61%; Central, 66%; Southern, 72%; Eastern, 67%), and long-range planning that takes sea level rise into account (Western, 56%; Central, 66%; Southern, 69%; Eastern, 64%). (See Table 2, Appendices, p. 22)

⁷ Johnson, Z. P. (ed.). (2013). *Climate Change and Coast Smart Construction: Infrastructure Siting and Design Guidelines. Special Report of the Adaptation Response Working Group of the Maryland Commission on Climate Change.* Maryland Department of Natural Resources, Annapolis, MD.

⁸ Office of Governor Martin O'Malley. (2014, May 6). *Governor O'Malley Signs Bills to Prepare for Impacts of Climate Change and Extreme Weather*. Annapolis, MD. Available at http://www.governor.maryland.gov

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How much of a priority should these topics be for Maryland's General Assembly and the Governor?

Figure 2 | More than half of Marylanders say protecting coastal areas should be a high priority

Figure 3 | Large majorities support regulations and long-range planning for sea level rise





Unweighted base, n=2,035

2. Many Marylanders are unsure whether sea level rise is occurring in the state and what causes it

While Marylanders overwhelmingly support taking actions that would protect the state from the effects of sea level rise, many Marylanders also say that they are unsure whether the problem is affecting the state, and if so, what is causing it. A majority of survey respondents (53%) admit that they do not know whether sea level rise is currently occurring along Maryland's shorelines. Of those who state an opinion, more think it is happening (39%) than that it isn't (8%), but very few are "extremely sure" (4%). (See Figure 4)

Marylanders from counties in the Eastern region – from Kent County down to Worcester on the Eastern Shore – are most likely to say that they are very or extremely sure sea level rise is happening (32%), compared to those in the Western, Central and Southern regions (15%, 18% and 17% respectively). (See Table 3, Appendices, p. 23)

A majority say sea level rise will cause significant harm within the next 25 years When asked when the effects of sea level rise will significantly harm people and property in

Maryland within a 100-year period, more than half say that significant harms are currently



Figure 4 | Most say that they don't know whether sea level rise is happening in Maryland

Sea-level rise is an issue that some Maryland communities have been discussing recently. Sea-level rise refers to increases in the average height of water relative to the land. Do you think that sea-level rise is currently happening along Maryland's coastlines? If you answered either yes or no, how sure are you?

manifesting or will do so in the next 10 or 25 years (12%, 17%, 28% respectively). Smaller percentages see sea level rise as a longer-term problem (50 years, 15%; 100 years, 8%), or not a problem at all. Slightly more than 1 in 5 Marylanders say that sea level rise has not been increasing (17%) or would never significantly cause harm (4%). (See Figure 5) Residents from the inland Western counties without coastal exposure are the most likely to say that sea levels will never significantly harm the state (Western, 12%; Central, 3%; Southern, 3%; Eastern, 5%). (See Table 4, Appendices, p. 23)

Many don't know what causes seas to rise, but think climate change contributes

More than a third of state residents (36%) say that they don't know what is causing sea levels to rise – whether it is from natural causes or human activities. Almost a quarter (23%) say that sea level rise is caused about equally by both natural and human influences on the environment. The rest of Marylanders are split between which has a stronger influence (human activities, 18%; natural changes, 17%). (See Figure 6) When asked specifically how much climate change contributes to sea level rise, many again say that they don't know (31%), but a majority of Marylanders say that climate change is at least partially responsible – at least a little (5%), if not some (22%), or a lot (34%). (See Figure 7)





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Figure 6 | More than a third are unsure whether rising seas are natural or human-caused

If you think sea levels are currently rising in Maryland, what do you think is causing it?

Figure 7 | A majority says climate change contributes to sea level rise in Maryland

If you think sea levels are currently rising in Maryland, how much do you think climate change contributes to sea-level rise in Maryland?



Indeed, human causes are not the only reason that water lines are creeping up Maryland's shores. While global climate changes affect the oceans – and cause sea level rise – through warming and expansion of waters, melting of glaciers and ice sheets, and slowing of the Gulf Stream, so do changes in the height of the land surface, including shifts that have been ongoing for thousands of years.⁹ In Maryland, about half of relative sea level is from land subsidence, mostly in response to glacial retreat from Northern America approximately 12,000 years ago.

Shoreline erosion and loss of land are of most concern to residents

Marylanders generally are most concerned about erosion and loss of land as a result of sea level rise (54%), followed by habitat loss (47%) and private property damage (44%). (See Figure 8) The areas of the state with the longest lengths of coastlines are the Southern region and Eastern Shore. Survey respondents from those areas are more likely to say that they are concerned about impacts from sea level rise than residents from the Western and Central regions, and are particularly worried about erosion and land loss (Southern, 61%; Eastern, 63% vs. Western, 45%; Central, 52%) and property damage and loss (Southern, 54%; Eastern, 51% vs. Western, 30%; Central, 41%). Habitat also ranks highly in these regions, but third (Southern, 50%; Eastern, 50% vs. Western, 39%; Central, 47%). (See Table 7, Appendices, p. 25)



Figure 8 | Shoreline erosion and land loss are most concerning to Marylanders Which impacts from sea-level rise in Maryland, if any, are you most concerned about? (Please check ALL THAT APPLY)

Unweighted base, n=2,035

⁹ Boesch et al. (2013).

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3. State climate protection actions receive strong support

Sea level rise represents just one of the impacts of climate change in Maryland that are projected to be many and varied across the state's regions, including higher temperatures, extreme weather conditions, and heavy precipitation events.¹⁰ A second set of questions in the survey asked Marylanders how they think climate change will impact their communities and what types of policies they support to address these challenges. Almost three quarters of Marylanders (73%) say they would like local and state governments to take actions to protect their communities against harms from climate change.¹¹ (See Figure 9) The Central and Southern regions of the state are more strongly in favor of government action (76%, 75% respectively) than the more rural counties to the west and east (59%, 67% respectively). (See Table 8, Appendices, p. 26)

Majorities support a variety of policies to protect communities against environmental change

While Marylanders have not always heard of state policies to help make communities more resilient to environmental changes, large majorities say they are supportive of them. Less than half of state residents say they have heard of the five policies listed in the survey – ranging from maintaining and restoring various natural areas (46%) to helping Maryland farmers become more efficient in their use of water (24%). (See Figure 10) Yet, survey respondents are supportive of all five policies, with very small percentages in opposition to any of them. Increasing trees in urban areas (82%), maintaining and restoring natural areas (80%), and helping Maryland's farmers become more water efficient (78%) are at the top of the list. Reducing the amount of pavement and other hard surfaces to lessen stormwater run-off is the least popular of the five listed, but is still strongly supported with 59% of Marylanders saying that they somewhat or strongly support it, and only 12% in opposition.

Awareness of state policies to protect against environmental changes generally varies little across regions of the state with slight exception. The more coastal Eastern and Southern regions are more likely to say that they are aware of the state's policy to strengthen coastal building codes and infrastructure (43%, 34% respectively) than inland areas (Western, 26%; Central, 25%). (See Table 9, Appendices, p. 27) All regions of the state report high support for policies that protect citizens, land and property against environmental changes, with none below 50%. (See Table 10, Appendices, p. 28)

¹⁰ Boesch, D.F. (Ed.). (2008). *Global Warming and the Free State: Comprehensive Assessment of Climate Change Impacts in Maryland*. Report of the Scientific and Technical Working Group of the Maryland Commission on Climate Change. University of Maryland Center for Environmental Science, Cambridge, MD.

¹¹ This represents a small, though statistically significant, difference from the past year in which 76% said they supported local and state actions to prepare and protect against climate change. (See Table 8, Appendices, p. 26)

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Figure 9 | A large majority supports local and state action to protect communities from climate



How much do you support or oppose state and local governments taking action to protect your community against harm caused by climate change (if any)?

Figure 10 | Restoration and protection of trees and natural areas rank highly among residents



Maryland has begun implementing policies to protect Maryland's citizens, land and property from environmental changes. How much do you support or oppose this policy?

Unweighted base, n=2,035

Unweighted base, n=2,035

4. Marylanders see incipient local climate changes and impacts to community resources

Over the past year many Marylanders say they have experienced loss of services and damages, especially loss of electrical power (76%), but also wind- or storm-related damage (39%), loss of drinking water (19%), breathing problems from poor air quality (18%), and flooding (9%). (See Table 11, Appendices, p. 29) Majorities of state residents say they anticipate that climate change will increase many of the conditions that cause these types of damages, such as hotter weather (77%), more severe storms (72%), heavier rains (58%), rising coastal sea levels (53%), and increased air pollution (51%). (See Figure 11)

Across all four regions of the state, hotter weather and more severe storms are mentioned the most frequently as likely impacts from climate change that will occur in Marylanders' communities in the next 10-20 years. Coastal regions such as the Eastern Shore and counties south of Anne Arundel are more likely to cite rising coastal sea levels as one of these community impacts (53%, 59% respectively) than more inland areas (Western, 34%; Central, 48%). (See Table 12, Appendices, p. 30)



Figure 11 | Hotter – and colder – weather and more severe storms expected

Which of the following do you think is likely to occur in your community as a result of climate change



Figure 12 | Agriculture, health and coastlines top the list of local resources believed to be at risk



Half or more say that agriculture, health, and coastlines will be affected

This year we again asked state residents which resources in their communities they thought would be affected over the next several years by climate change – the same question was asked in 2013. Across a list of 11 possible areas of community impact, respondents were equally or somewhat less likely to say each was at risk in 2014 compared to 2013. Transportation, for example, remained about the same between years (2013, 40%; 2014, 41%), whereas the steepest observed drop (15 percentage points) was to forests and wildlife (2013, 62%; 2014, 47%). While there were some declines in risk perceptions over the past year, the ranking of the top three at-risk community resources that Marylanders are concerned about remained the same across both years: agriculture (2013, 70%; 2014; 56%), people's health (2013, 67%; 2014, 55%), and coastlines (2013, 65%; 2014, 53%). (See Figure 12)

Residents across the state's regions vary in their perceptions of risk to resource areas

People in the Western region of the state in 2014 are least likely to say that one or more of 11 resources in their community will be affected, while residents in the Southern region are most likely to perceive climate risks to local resources. Agriculture is the resource area most likely to

be perceived as threatened by climate change by residents in the Western counties of Allegany, Frederick, Garrett and Washington (52%). Less than half of Western county residents name any of the other types of resources as being at risk. (See Table 13, Appendices, p. 31)

In contrast, those in Southern counties are most likely to say one or more aspects of their community are at risk from climate change in the next several years. Half or more of respondents from Anne Arundel south through St. Mary's counties named six resources that concerned them, including agriculture (63%), coastlines (58%), people's health (56%), wetlands (54%), forests and wildlife (52%), and public water supplies (51%). The Central region is most likely to cite people's health (58%), agriculture (55%), public water supplies (52%), and coastlines (52%); whereas the Eastern region is most likely to point to coastlines (63%), wetlands (55%), and agriculture (52%).

5. Study methodology

This study was conducted by George Mason University's Center for Climate Change Communication in partnership with the Maryland Department of Health and Mental Hygiene to explore Marylanders' views on public health, energy and the environment. The survey instrument was developed at George Mason University, partially based on questions used in the Climate Change in the American Mind national surveys run by the Yale Project on Climate Change Communication (http://environment.yale.edu/ climate-communication/) and George Mason's Center for Climate Change Communication (http://climatechange communication.org/). The mail survey consisted of 50 questions, and took approximately 20 minutes to complete.

For reporting purposes, the data has been broken into four separate documents; this survey report focused on sea level rise and climate adaptation is the first of these. Three additional reports will follow on Marylanders' attitudes, behaviors and policy preferences regarding public health and climate change, energy, and climate change generally.

The unweighted sample margin of error is +/- 2 percentage points at the 95% confidence interval for the state and less than +/- 5 percentage points for each region. (See Table 1)

Sampling design; fielding

The survey was mailed to 6,401 households in the state of Maryland, randomly selected from within each of four regions of the state from Survey Sampling International household address databases, based primarily on U.S. Postal Service delivery route information. We sampled at the regional level to ensure the final data was generalizable to these distinctly different geographic and cultural areas of the state, as well as the state as a whole. The sample size for the Central region of the state was higher relative to the other three regions because it accounts for more than half of the state's population (see Table 1). Households that responded to the survey in 2013 were not re-contacted in 2014.

The survey was fielded from March 17 to June 10, 2014. Each household was sent up to four mailings: an announcement letter introducing the survey (March 17), a copy of the survey with a \$2 bill as a thank you (March 24), a reminder postcard (April 7), and a follow-up survey (April 22). (As a point of comparison, the 2013 survey was fielded from March 28 to June 4. Methodology for the 2013 survey is available within those reports at climatemaryland.org.) In order to achieve randomization of respondents within each household, we requested that the person with the most recent birthday complete the survey. Households that completed and returned the survey were taken off of subsequent mailing lists.

Weighting

The data tables report percentages for the state and each region. State data were weighted for regional representation, gender, age, and education level based on 3-year American Community Survey data from the U.S. Census Bureau, following the same procedure as in 2013. Each region's data were also weighted for the same demographic variables. Base unweighted sample sizes for each question are reported in addition to the weighted percentages.

Respondents who did not provide regional, gender, age or education level data were dropped from the data set. This lowered the number of respondents by 201 cases. (The overall response rate for the study before those cases were dropped was 38%.) Please see the demographics section of the appendix for more information on the characteristics of the survey sample preand post-weighting.

Institutional Review Board

The study was reviewed by Institutional Review Boards for both George Mason University (Protocol #8508) and Maryland Department of Health and Mental Hygiene (Protocol #13-04).

		Initial		Undeliverable	e Number of	Response	Margin of
Region	Counties	sample	Refusals	addresses	respondents*	rate	error
Western	Allegany, Frederick, Garrett, Washington	1,467	14	107	495	36%	+/- 4.40 % points
Central	Baltimore, Carroll, Cecil, Harford, Howard, Montgomery, Baltimore City	2,000	16	130	629	33%	+/- 3.91 % points
Southern	Anne Arundel, Calvert, Charles, Prince George's, St. Mary's	1,467	11	85	435	31%	+/- 4.70 % points
Eastern	Caroline, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico, Worcester	1,467	18	190	476	37%	+/- 4.49 % points
State	All counties	6,401	70	512	2,035	35%	+/- 2.2 % points

Table 1 | Regional samples, response rates and margin of error

Appendices

- Data tables
- Sample demographics

The following tables provide data at the state and regional level for each of the questions included in this survey report. "Unweighted n" refers to the number of people who responded to each question. The samples were weighted to better approximate U.S. Census data on state population distributions. More information can be found in the study methodology section. The counties included in each region are listed below.

Region	Counties
Western	Allegany, Frederick, Garrett and Washington counties
Central	Baltimore, Carroll, Cecil, Harford, Howard, Montgomery counties and Baltimore City
Southern	Anne Arundel, Calvert, Charles, Prince George's and St. Mary's counties
Eastern	Caroline, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico and Worcester counties
State	All counties

Data tables | Marylanders' priorities for the Assembly and Governor

Table 1 | Top priority areas for the state

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	Not a priority	3.2%	5.3%	3.2%	2.3%	4.4%
	Low	6.3%	9.7%	5.7%	7.4%	5.2%
Improving access to health	Medium	16.7%	25.5%	16.4%	11.6%	32.4%
care	High	29.5%	21.5%	28.3%	33.7%	25.1%
	Very high	44.3%	37.9%	46.5%	45.1%	32.9%
	Unweighted n	1997	485	617	431	464
	Not a priority	11.0%	17.5%	10.7%	9.5%	14.4%
	Low	13.9%	21.0%	12.4%	14.3%	17.6%
Establishing universal	Medium	22.8%	28.1%	21.1%	23.6%	24.7%
pre-kindergarten	High	26.1%	15.1%	28.8%	25.5%	22.4%
	Very high	26.2%	18.3%	26.9%	27.0%	20.9%
	Unweighted n	1993	485	614	428	466
	Not a priority	1.2%	2.0%	1.5%	.5%	2.4%
	Low	2.3%	5.4%	1.2%	2.2%	5.8%
Doducing water pollution	Medium	15.4%	24.8%	15.7%	12.0%	18.9%
Reducing water pollution	High	36.3%	30.0%	37.7%	36.5%	30.6%
	Very high	44.8%	37.8%	44.0%	48.8%	42.4%
	Unweighted n	1989	485	613	426	465
	Not a priority	8.6%	16.3%	6.7%	9.1%	16.0%
	Low	12.3%	17.5%	11.1%	11.8%	18.0%
Addressing climate change	Medium	28.4%	25.8%	27.3%	31.3%	29.1%
Addressing climate change	High	29.6%	18.3%	31.4%	29.9%	20.0%
	Very high	21.0%	22.1%	23.6%	17.9%	16.9%
	Unweighted n	1994	486	614	430	464
	Not a priority	8.4%	12.5%	8.8%	6.6%	12.8%
	Low	8.8%	14.3%	8.4%	7.2%	15.9%
Paicing the minimum wage	Medium	21.2%	19.1%	21.3%	20.5%	25.6%
Raising the minimum wage	High	22.9%	20.9%	22.4%	24.4%	18.8%
	Very high	38.7%	33.2%	39.1%	41.4%	26.9%
	Unweighted n	2001	487	620	430	464
					Table 1 Co	ntinued>>

How much of a priority should these topics be for Maryland's General Assembly and the Governor?

How much of a priority sh	ould these topics be	for Maryland'	s General Ass	embly and t	the Governor?	
		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	Not a priority	2.0%	3.2%	1.9%	1.7%	4.3%
	Low	5.4%	7.7%	3.3%	8.1%	8.4%
Deducing air collution	Medium	19.2%	27.5%	19.1%	16.8%	25.1%
Reducing air pollution	High	33.8%	29.8%	35.9%	33.2%	28.7%
	Very high	39.5%	31.8%	39.9%	40.2%	33.5%
	Unweighted n	STATE WESTERN CENTRAL SOUTHERN EAST ty 2.0% 3.2% 1.9% 1.7% 4.3 5.4% 7.7% 3.3% 8.1% 8.4 19.2% 27.5% 19.1% 16.8% 25.1 33.8% 29.8% 35.9% 33.2% 28.7 39.5% 31.8% 39.9% 40.2% 33.5 dn 1993 485 613 429 46 ity 0.9% .8% .8% .9% 2.4 1.5% 3.4% 2.1% .6% .59 8.2% 7.5% 8.0% 7.9% 8.9 26.2% 21.8% 26.0% 28.8% 28.4 63.1% 66.5% 63.2% 61.8% 59.8 dn 2002 487 618 429 46 ity 2.5% 1.9% 2.4% 2.6% 2.4 4.9% 5.7% 5.0% 5.8% 4.9 <td>466</td>	466			
	Not a priority	0.9%	.8%	.8%	.9%	2.4%
	Low	1.5%	3.4%	2.1%	.6%	.5%
Creating is he	Medium	8.2%	7.5%	8.0%	7.9%	8.9%
Creating jobs	High	26.2%	21.8%	26.0%	28.8%	28.4%
	Very high	63.1%	66.5%	63.2%	61.8%	59.8%
	Unweighted n	2002	487	618	429	468
	Not a priority	2.5%	1.9%	2.4%	2.6%	2.4%
	Low	4.9%	5.7%	5.0%	5.8%	4.9%
	Medium	18.4%	19.8%	19.3%	16.6%	18.2%
Growing the middle class	STATE WESTERN CENTRAL SOUTHERN EA Not a priority 2.0% 3.2% 1.9% 1.7% Low 5.4% 7.7% 3.3% 8.1% Medium 19.2% 27.5% 19.1% 16.8% 2 High 33.8% 29.8% 35.9% 33.2% 2 Very high 39.5% 31.8% 39.9% 40.2% 3 Unweighted n 1993 485 613 429 Not a priority 0.9% .8% .8% .9% Low 1.5% 3.4% 2.1% .6% Medium 8.2% 7.5% 8.0% 7.9% High 26.2% 21.8% 26.0% 28.8% 2 Very high 63.1% 66.5% 63.2% 61.8% 2 Unweighted n 2002 487 618 429 Not a priority 2.5% 1.9% 2.4% 2.6% Low 4.9% 5.	36.4%				
	Very high	44.1%	42.7%	45.3%	43.1%	38.1%
	Unweighted n	1982	483	609	427	463
	Not a priority	4.5%	9.3%	3.3%	4.2%	7.1%
	Low	11.0%	15.4%	11.7%	8.8%	10.1%
Protecting Maryland's	Medium	29.2%	30.6%	29.4%	29.1%	27.2%
sea-level rise	High	31.2%	19.3%	32.1%	33.5%	26.0%
	Very high	24.1%	25.4%	23.4%	24.5%	29.7%
	Unweighted n	1998	487	613	429	469

Table 1 Continued>>

Data tables | Support for state sea-level rise strategies

Table 2 | Support for types of community sea-level rise strategies

Maryland's state and local governments have various options for dealing with sea-level rise. How much do you support or oppose the following approaches to dealing with sea-level rise in Maryland?

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	Strongly oppose	3.0%	4.0%	2.1%	3.9%	3.9%
	Somewhat oppose	3.5%	5.1%	2.8%	4.2%	3.1%
Long-range planning that takes sea-level rise into	Neither support nor oppose	28.1%	34.5%	29.1%	23.1%	28.7%
account	Somewhat support	32.7%	32.3%	33.9%	31.3%	28.2%
	Strongly support	32.7%	24.1%	32.1%	37.5%	36.1%
	Unweighted n	1964	476	607	419	462
	Strongly oppose	4.5%	5.9%	3.2%	5.2%	5.4%
Changes to regulations,	Somewhat oppose	4.8%	5.6%	3.6%	5.4%	9.5%
such as zoning laws and increased "set back"	Neither support nor oppose	23.8%	27.9%	27.1%	17.4%	18.4%
distances to discourage	Somewhat support	33.6%	26.0%	32.3%	38.5%	33.1%
affected by sea-level rise	Strongly support	33.3%	34.7%	33.9%	33.5%	33.5%
	Unweighted n	1980	481	610	422	467
	Strongly oppose	8.3%	14.1%	7.3%	8.0%	9.4%
Use of government	Somewhat oppose	9.5%	10.2%	6.9%	11.0%	17.9%
spending to buy coastal lands to maintain and	Neither support nor oppose	27.3%	29.5%	29.2%	22.8%	25.8%
buffers against sea-level rise	Somewhat support	30.9%	24.1%	33.9%	30.5%	29.2%
and storms	Strongly support	23.9%	22.1%	22.6%	27.7%	17.7%
	Unweighted n	1965	476	606	417	466
_	Strongly oppose	11.3%	14.5%	11.3%	10.2%	13.2%
Use of government	Somewhat oppose	12.3%	14.8%	11.0%	11.4%	19.9%
spending to build walls and other structural	Neither support nor oppose	28.7%	30.3%	32.3%	22.4%	19.8%
barriers along the shore to	Somewhat support	29.5%	25.7%	29.2%	30.9%	35.8%
hold back coastal waters	Strongly support	18.2%	14.7%	16.2%	25.2%	11.3%
	Unweighted n	1975	482	608	421	464
	Strongly oppose	8.3%	13.0%	6.0%	11.1%	6.6%
	Somewhat oppose	7.5%	8.4%	7.6%	7.6%	8.4%
providing tax incentives to property owners to take	Neither support nor oppose	28.7%	30.9%	30.9%	22.8%	25.4%
risk	Somewhat support	32.1%	27.5%	36.6%	25.9%	34.8%
	Strongly support	23.4%	20.2%	19.0%	32.7%	24.7%
	Unweighted n	1967	480	605	420	462

Data tables | Sea-level rise knowledge and beliefs

Table 3 | Certainty of belief that sea-level rise is occurring in Maryland

Sea-level rise is an issue that some Maryland communities have been discussing recently. Sea-level rise refers to increases in the average height of water relative to the land. Do you think that sea-level rise is currently happening along Maryland's coastlines? If you answered either yes or no, how sure are you?

	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
Extremely sure sea-level rise is not happening	.4%	1.0%	.3%	.4%	.5%
Very sure sea-level rise is not happening	1.8%	3.4%	1.9%	1.0%	2.9%
Somewhat sure sea-level rise is not happening	4.1%	3.5%	4.2%	3.3%	6.4%
Not at all sure sea-level rise is not happening	1.6%	3.4%	1.6%	.4%	1.9%
Don't know	53.1%	54.6%	54.4%	53.7%	32.7%
Not at all sure sea-level rise is happening	3.0%	1.7%	4.0%	2.1%	1.4%
Somewhat sure sea-level rise is happening	18.1%	17.8%	15.9%	22.2%	22.4%
Very sure sea-level rise is happening	13.9%	11.6%	13.8%	12.7%	19.6%
Extremely sure sea-level rise is happening	4.1%	2.9%	3.8%	4.2%	12.2%
Unweighted n	2012	490	617	432	473

Table 4 | When sea-level rise will harm Maryland people and property

When do you think the effects of sea-level rise will significantly harm people and property in Maryland, if ever? (Check ONE)

	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
Effects are significant now	12.0%	5.9%	13.0%	9.8%	14.7%
In 10 years	17.3%	16.4%	14.1%	21.5%	23.5%
In 25 years	27.5%	18.4%	31.3%	28.1%	18.1%
In 50 years	14.7%	16.8%	14.2%	16.0%	12.3%
In 100 years	8.1%	11.6%	8.5%	5.6%	12.2%
Never	3.9%	12.0%	3.2%	2.6%	5.2%
I don't think sea levels have been rising	16.6%	19.0%	15.7%	16.4%	14.0%
Unweighted n	1807	420	551	401	435

Table 5 | Human vs. natural causes of rising sea-levels in Maryland

				-	
	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
Caused entirely by human act	ivities 3.9%	5.2%	4.5%	3.0%	1.6%
Caused mostly by human activ	vities 14.0%	11.5%	15.8%	13.6%	6.5%
Caused about equally by hum and natural changes in the en	an activities 23.2% vironment	15.1%	20.5%	30.1%	27.4%
Caused mostly by natural char environment	nges in the 12.6%	16.8%	13.0%	9.7%	20.9%
Caused entirely by natural cha environment	anges in the 3.9%	6.6%	2.7%	3.9%	10.8%
I don't think sea levels have b	een rising 6.3%	8.3%	6.1%	4.6%	8.9%
Don't know	36.1%	36.5%	37.5%	35.1%	24.0%
Unweighted n	1874	447	567	410	450

If you think sea levels are currently rising in Maryland, what do you think is causing it? (Check ONE)

Table 6 | Role of climate change in contributing to sea-level rise

If you think sea levels are currently rising in Maryland, how much do you think climate change contributes to sea-level rise in Maryland? (Check ONE)

	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
Not at all	3.0%	4.6%	2.3%	3.1%	5.9%
A little	4.6%	7.7%	4.2%	4.7%	8.3%
Some	22.2%	21.0%	21.5%	22.6%	26.2%
A lot	34.3%	30.4%	34.7%	35.9%	29.2%
I don't think sea levels have been rising	5.2%	4.7%	4.9%	4.6%	7.8%
Don't know	30.7%	31.7%	32.5%	29.0%	22.7%
Unweighted n	1873	447	569	411	446

Table 7 | Types of state sea-level rise impacts that cause most concern

Which impacts from sea-level rise in Maryland, if any, are you most concerned about? (Please check ALL THAT APPLY)

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	No response	55.6%	70.2%	59.4%	45.6%	49.3%
Private property damage or	Yes	44.4%	29.8%	40.6%	54.4%	50.7%
	Unweighted n	2035	495	629	435	476
	No response	58.1%	72.2%	57.5%	55.8%	59.7%
Damage or loss of public	Yes	41.9%	27.8%	42.5%	44.2%	40.3%
	Unweighted n	2035	495	629	435	476
	No response	53.3%	61.2%	53.1%	50.1%	50.3%
Habitat loss	Yes	46.7%	38.8%	46.9%	49.9%	49.7%
	Unweighted n	2035	495	629	435	476
	No response	45.9%	54.7%	47.6%	38.9%	36.7%
Shoreline erosion and loss	Yes	54.1%	45.3%	52.4%	61.1%	63.3%
	Unweighted n	2035	495	629	435	476
	No response	59.7%	71.2%	59.0%	56.2%	56.1%
Increased frequency and	Yes	40.3%	28.8%	41.0%	43.8%	43.9%
sevency of hooding	Unweighted n	2035	495	629	435	476
	No response	72.4%	82.9%	72.2%	66.9%	72.9%
Permanently flooded areas	Yes	27.6%	17.1%	27.8%	33.1%	27.1%
(inditidation)	Unweighted n	2035	495	629	435	476
	No response	63.7%	77.5%	62.6%	62.2%	56.4%
Higher storm surge	Yes	36.3%	22.5%	37.4%	37.8%	43.6%
	Unweighted n	2035	495	629	435	476
	No response	58.2%	64.4%	60.1%	53.6%	57.2%
Contamination of freshwater wells	Yes	41.8%	35.6%	39.9%	46.4%	42.8%
	Unweighted n	2035	495	629	435	476
	No response	64.1%	74.4%	64.1%	60.7%	63.5%
Problems with stormwater	Yes	35.9%	25.6%	35.9%	39.3%	36.5%
urundge	Unweighted n	2035	495	629	435	476
	No response	63.4%	70.3%	62.9%	64.5%	60.5%
Loss or damage of sewage	Yes	36.6%	29.7%	37.1%	35.5%	39.5%
and septie systems	Unweighted n	2035	495	629	435	476
	No response	92.4%	87.2%	93.6%	93.1%	90.0%
Not concerned about any	Yes	7.6%	12.8%	6.4%	6.9%	10.0%
impacts	Unweighted n	2035	495	629	435	476
	No response	81.7%	82.9%	79.7%	85.6%	88.9%
Don't know	Yes	18.3%	17.1%	20.3%	14.4%	11.1%
	Unweighted n	2035	495	629	435	476

Data tables | Awareness and support for state adaptation strategies

Table 8 | Support for government action to protect communities

How much do you support or oppose state and local governments taking action to protect your community against harm caused by climate change (if any)? (Check ONE)

	STATE	WESTERN	CENTRAL	SOUTHERN	FASTERN
	•=		02.11.0.12		2.0.2
Strongly oppose	7.5%	13.5%	6.3%	7.5%	9.3%
Somewhat oppose	5.2%	10.1%	5.9%	2.5%	8.2%
Somewhat support	34.4%	30.7%	37.7%	27.6%	41.5%
Strongly support	38.7%	27.8%	38.6%	46.9%	25.7%
Don't know	14.2%	17.9%	11.5%	15.3%	15.3%
Unweighted n	2012	488	621	433	470

	2013	2014	Δ
Strongly oppose	6.5%	7.5%	1.0%
Somewhat oppose	6.0%	5.2%	-0.8%
Somewhat support	36.0%	34.4%	-1.6%
Strongly support	40.3%	38.7%	-1.6%
Don't know	11.3%	14.2%	3.0%
Unweighted n	2092	2012	

Table 9 | Awareness of policies to protect communities and resources

Maryland has begun implementing policies to protect Maryland's citizens, land and property from environmental changes. For each of the following policies, please answer two questions:

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
Helping Maryland's farmers	Yes	23.6%	27.3%	22.9%	23.6%	32.1%
become more efficient in	No	76.4%	72.7%	77.1%	76.4%	67.9%
their use of water	Unweighted n	1919	469	582	410	458
	Yes	39.9%	42.6%	42.0%	35.7%	42.1%
Increasing trees in urban	No	60.1%	57.4%	58.0%	64.3%	57.9%
areas	Unweighted n	STATE WESTERN CENTRAL SOUTHERN EA 23.6% 27.3% 22.9% 23.6% 3 76.4% 72.7% 77.1% 76.4% 6 1919 469 582 410 3 39.9% 42.6% 42.0% 35.7% 6 60.1% 57.4% 58.0% 64.3% 9 1906 463 582 407 3 29.5% 27.0% 32.4% 27.1% 3 70.5% 73.0% 67.6% 72.9% 6 1876 459 568 402 3 28.5% 25.9% 25.2% 34.0% 4 1887 461 576 403 4 1887 462 573 400 4	454			
Reducing the amount of pavement and other hard surfaces to reduce stormwater run-off	Yes	29.5%	27.0%	32.4%	27.1%	32.8%
	No	70.5%	73.0%	67.6%	72.9%	67.2%
	Unweighted n	1876	459	568	402	447
Strengthening building	Yes	28.5%	25.9%	25.2%	34.0%	43.3%
codes and infrastructure	No	71.5%	74.1%	74.8%	66.0%	56.7%
protect against coastal flooding and storms	Unweighted n	1895	461	576	403	455
Maintaining and restoring	Yes	45.8%	50.1%	43.0%	48.9%	69.2%
wetlands, forests, floodplains and beach dunes to protect natural resources and nearby communities	No	54.2%	49.9%	57.0%	51.1%	30.8%
	Unweighted n	1887	462	573	400	452

Have you heard of this policy?

Table 10 | Support for policies to protect communities and resources

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	Strongly oppose	2.3%	2.0%	1.9%	2.2%	4.3%
	Somewhat oppose	2.5%	1.0%	1.2%	4.5%	3.8%
Helping Maryland's farmers become more efficient in	Neither support nor oppose	17.8%	23.0%	18.1%	13.3%	22.3%
their use of water	Somewhat support	36.6%	37.8%	37.8%	37.2%	38.0%
	Strongly support	40.8%	36.1%	41.0%	42.8%	31.6%
	Unweighted n	1878	442	593	404	439
	Strongly oppose	1.4%	.8%	1.1%	2.3%	.8%
Increasing trees in urban	Somewhat oppose	3.2%	4.4%	3.3%	2.5%	1.0%
	Neither support nor oppose	13.9%	14.2%	12.8%	13.1%	19.4%
aleas	Somewhat support	29.8%	35.3%	29.8%	27.9%	33.2%
STATE WESTERN CENTRAL SOU Helping Maryland's farmers become more efficient in their use of water Somewhat oppose 2.3% 2.0% 1.2% 4 Neither support nor oppose 17.8% 23.0% 18.1% 11 Somewhat support 36.6% 37.8	54.1%	45.6%				
	Unweighted n	1891	454	591	409	437
	Strongly oppose	5.6%	3.4%	5.9%	4.9%	8.6%
	Somewhat oppose	6.2%	9.3%	6.4%	5.0%	7.5%
Reducing the amount of pavement and other hard	Neither support nor oppose	29.2%	35.2%	30.8%	21.6%	31.4%
surfaces to reduce	Somewhat support	STATE WESTERN CENTRAL SOUTHERN E 2.3% 2.0% 1.9% 2.2% 1.2% 4.5% 17.8% 23.0% 18.1% 13.3% 36.6% 37.8% 37.2% 40.8% 36.1% 41.0% 42.8% 404 42.8% 404 1.4% .8% 1.1% 2.3% 404 3.3% 2.5% 13.9% 14.2% 12.8% 13.1% 2.3% 4.4% 3.3% 2.5% 13.9% 14.2% 12.8% 13.1% 2.5% 3.3% 2.5% 3.4% 5.9% 4.9% 4.1% 4.9% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 3.1% 3.1% 3.1% 3.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 4.1% 3.1%	28.5%			
	Strongly support	28.2%	21.8%	28.7%	30.4%	24.0%
	Unweighted n	1867	444	582	400	441
	Strongly oppose	1.7%	.9%	1.8%	1.8%	2.3%
Strengthening building	Somewhat oppose	3.2%	8.0%	2.8%	1.9%	6.3%
codes and infrastructure construction standards to	Neither support nor oppose	23.4%	26.7%	23.8%	22.8%	20.9%
protect against coastal	Somewhat support	35.1%	33.4%	33.0%	37.2%	40.0%
flooding and storms	Strongly support	36.6%	31.0%	38.7%	36.2%	30.5%
	Unweighted n	veither support nor 17.8% 23.0% 18.1% 13.3% 22 iomewhat support 36.6% 37.8% 37.8% 37.2% 38 itrongly support 40.8% 36.1% 41.0% 42.8% 33 Jnweighted n 1878 442 593 404 44 itrongly oppose 1.4% .8% 1.1% 2.3% . iomewhat oppose 3.2% 4.4% 3.3% 2.5% 1 veither support nor 13.9% 14.2% 12.8% 13.1% 19 oppose 51.8% 45.2% 52.9% 54.1% 45 Jnweighted n 1891 454 591 409 42 itrongly oppose 5.6% 3.4% 5.9% 4.9% 8 iomewhat oppose 6.2% 9.3% 6.4% 5.0% 7 veither support nor 29.2% 35.2% 30.8% 21.6% 31 oppose 0.9% 30.3% 28.3% 38.2% 28 iomewhat support 28.2% 21.8% 28.7%	450			
	Strongly oppose	1.5%	2.6%	2.1%	1.0%	1.0%
Maintaining and restoring	Somewhat oppose	1.9%	2.0%	1.5%	2.0%	1.9%
wetlands, forests, floodplains and beach dunes	Neither support nor oppose	16.8%	17.6%	18.0%	13.7%	14.1%
to protect natural resources	Somewhat support	28.0%	33.6%	27.5%	25.0%	28.8%
and nearby communities	Strongly support	51.8%	44.2%	50.9%	58.3%	54.2%
	Unweighted n	1924	459	594	414	457

How much do you support or oppose this policy?

Data tables | Experiences of loss of services and damage

Table 11 | Types of service loss, weather damage and harm

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	Not at all	24.1%	17.4%	25.9%	21.2%	27.6%
	Once	30.3%	26.5%	32.8%	25.6%	25.6%
Loss of electric neuror	2-3 times	33.6%	39.3%	31.7%	39.0%	31.9%
Loss of electric power	4-5 times	8.3%	10.1%	6.8%	11.1%	6.4%
	STATE WESTERN Not at all 24.1% 17.4% Once 30.3% 26.5% 2-3 times 33.6% 39.3% 4-5 times 8.3% 10.1% More than 5 times 3.6% 6.6% Unweighted n 2016 488 Not at all 80.8% 75.0% Once 10.1% 7.8% 2-3 times 6.8% 10.7% 4-5 times 1.7% 5.4% More than 5 times .6% 1.0% Unweighted n 2004 486 Not at all 91.3% 94.9% Once 6.6% 3.7% 2-3 times 1.7% 1.2% 4-5 times .4% .1% More than 5 times .0% 0.0% Unweighted n 2009 485 Once .2% .7% 2-3 times .7% 0.0% More than 5 times .0% 0.0% Once .2% <	6.6%	2.8%	3.1%	8.6%	
	Unweighted n	STATE WESTERN CENTRAL SOUTHERN 24.1% 17.4% 25.9% 21.2% 30.3% 26.5% 32.8% 25.6% 3 33.6% 39.3% 31.7% 39.0% 3 8.3% 10.1% 6.8% 11.1% an 5 times 3.6% 6.6% 2.8% 3.1% ted n 2016 488 624 432 1 80.8% 75.0% 80.4% 82.0% 10.1% 7.8% 10.0% 11.5% 5 6.8% 10.7% 7.8% 4.2% 5 1.7% 5.4% 1.1% 1.7% an 5 times .6% 1.0% .7% .5% ted n 2004 486 618 430 1 91.3% 94.9% 91.4% 92.0% 5 1.7% 1.2% 1.3% 1.0% 5 1.7% 1.2% 1.3% 1.0% 5 .0%	472			
	Not at all	80.8%	75.0%	80.4%	82.0%	81.0%
	Once	10.1%	7.8%	10.0%	11.5%	9.2%
Loss of drinking water	2-3 times	6.8%	10.7%	7.8%	4.2%	7.2%
LOSS OF UTTIKING WATER	4-5 times	1.7%	5.4%	1.1%	1.7%	2.0%
	More than 5 times	.6%	1.0%	.7%	.5%	.5%
	Unweighted n	2004	486	618	430	470
	Not at all	91.3%	94.9%	91.4%	92.0%	82.2%
	Once	6.6%	3.7%	6.6%	6.9%	9.1%
Flood damage	2-3 times	1.7%	1.2%	1.3%	1.0%	8.0%
Flood dallage	4-5 times	.4%	.1%	.6%	.2%	.5%
	More than 5 times	STATE WESTERN CENTRAL SOUTHERN EXAMPLE 1 24.1% 17.4% 25.9% 21.2% 1 30.3% 26.5% 32.8% 25.6% 1 s 33.6% 39.3% 31.7% 39.0% 1 s 8.3% 10.1% 6.8% 11.1% 1 an 5 times 3.6% 6.6% 2.8% 3.1% 1 tted n 2016 488 624 432 1 10.1% 7.8% 10.0% 11.5% 1 1 s 6.8% 10.7% 7.8% 4.2% 1 s 1.7% 5.4% 1.1% 1.7% 1 an 5 times .6% 1.0% .7% .5% 1 tted n 2004 486 618 430 1 1 91.3% 94.9% 91.4% 92.0% 3 s 1.7% 1.2% 1.3% 1.0% 3	.1%			
	Unweighted n	STATEWESTERNCENTRALSOUTHERN24.1%17.4%25.9%21.2%30.3%26.5%32.8%25.6%33.6%39.3%31.7%39.0%8.3%10.1%6.8%11.1%3.6%6.6%2.8%3.1%201648862443280.8%75.0%80.4%82.0%10.1%7.8%10.0%11.5%6.8%10.7%7.8%4.2%1.7%5.4%1.1%1.7%.6%1.0%.7%.5%200448661843091.3%94.9%91.4%92.0%6.6%3.7%6.6%6.9%1.7%1.2%1.3%1.0%.4%.1%.6%.2%.0%0.0%0.0%0.0%200948561943499.0%99.3%98.7%99.5%.2%.7%.0%.4%.0%0.0%0.0%0.0%.0%0.0%0.0%0.0%.0%0.0%0.0%0.0%.0%0.0%0.0%0.0%.0%0.0%0.0%0.0%.0%0.0%0.0%0.0%.1%13.9%8.6%7.4%1.4%3.9%.4%3.0%1.1%1.4%1.5%.1%	471			
	Not at all	99.0%	99.3%	98.7%	99.5%	98.7%
	Once	.2%	.7%	.0%	.4%	.1%
Wildfire damage	2-3 times	n 5 times 3.6% 6.6% 2.8% 3.1% 8.6% ted n 2016 488 624 432 472 80.8% 75.0% 80.4% 82.0% 81.09 10.1% 7.8% 10.0% 11.5% 9.2% 6.8% 10.7% 7.8% 4.2% 7.2% 1.7% 5.4% 1.1% 1.7% 2.0% n 5 times .6% 1.0% .7% .5% .5% ted n 2004 486 618 430 470 91.3% 94.9% 91.4% 92.0% 82.29 6.6% 3.7% 6.6% 6.9% 9.1% 1.7% 1.2% 1.3% 1.0% 8.0% 4.4% .1% .6% .2% .5% n 5 times .0% 0.0% 0.0% 0.0% .1% 4d n 2009 485 619 434 471 99.0% 99.3% 98.7% 99.5% </td <td>1.0%</td>	1.0%			
wildlife danlage	4-5 times	.0%	0.0%	.0%	0.0%	0.0%
	Unweighted n 2016 488 624 432 472 Not at all 80.8% 75.0% 80.4% 82.0% 81.09 Once 10.1% 7.8% 10.0% 11.5% 9.2% 2-3 times 6.8% 10.7% 7.8% 4.2% 7.2% 4-5 times 1.7% 5.4% 1.1% 1.7% 2.0% More than 5 times .6% 1.0% .7% .5% .5% Unweighted n 2004 486 618 430 470 Not at all 91.3% 94.9% 91.4% 92.0% 82.29 Once 6.6% 3.7% 6.6% 6.9% 9.1% 2-3 times 1.7% 1.2% 1.3% 1.0% 8.0% 4-5 times .4% 1% .6% .2% .5% More than 5 times .0% 0.0% 0.0% .0% .0% 0nce .2% .7% .0% .4% .1% <t< td=""><td>.2%</td></t<>	.2%				
Flood damage 2-3 times 1.7% 1.2% 1.3% 4-5 times .4% .1% .6% More than 5 times .0% 0.0% .0% Unweighted n 2009 485 619 Not at all 99.0% 99.3% 98.7% Once .2% .7% .0% 2-3 times .7% 0.0% 1.2% 4-5 times .0% 0.0% 0.0% Vildfire damage 4-5 times .0% 0.0% 0.0% 4-5 times .0% 0.0% 0.0% 0.0% Unweighted n 2013 488 620 Not at all 61.4% 57.7% 61.7% Once 27.0% 23.0% 27.8%	433	472				
	Not at all	61.4%	57.7%	61.7%	63.5%	55.4%
	Once	27.0%	23.0%	27.8%	26.0%	29.9%
Wind- or storm-related	2-3 times	9.1%	13.9%	8.6%	7.4%	12.4%
damage	4-5 times	1.4%	3.9%	.4%	3.0%	1.8%
	$ tric power \end{tabular}{ctric power } tabula$	1.1%	1.4%	1.5%	.1%	.5%
	Unweighted n	2007	488	617	432	470

How frequently have you personally experienced the following during the past 12 months?

Data tables | Perceptions of local climate changes and impacts

Table 12 | Perceived types of local climate changes likely to occur

Which of the following do you think is likely to occur in your community as a result of climate change over the next 10-20 years? (Please check ALL THAT APPLY)

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	No response	25.8%	30.5%	24.4%	22.7%	34.7%
Hotter weather	Yes	74.2%	69.5%	75.6%	77.3%	65.3%
	Unweighted n	2035	495	629	435	476
	No response	35.3%	37.5%	36.0%	30.9%	45.8%
Colder weather	Yes	64.7%	62.5%	64.0%	69.1%	54.2%
	Unweighted n	2035	495	629	435	476
	No response	42.9%	52.9%	39.8%	42.3%	54.1%
Heavier rains	Yes	57.1%	47.1%	60.2%	57.7%	45.9%
	Unweighted n	2035	495	629	435	476
	No response	58.7%	59.2%	58.7%	59.6%	57.9%
More frequent droughts	Yes	41.3%	40.8%	41.3%	40.4%	42.1%
	Unweighted n	2035	495	629	435	476
Wildfires	No response	78.1%	76.7%	79.3%	75.9%	78.5%
	Yes	21.9%	23.3%	20.7%	24.1%	21.5%
	Unweighted n	2035	495	629	435	476
	No response	53.2%	59.0%	52.6%	49.5%	64.1%
Increased air pollution	Yes	46.8%	41.0%	47.4%	50.5%	35.9%
	Unweighted n	2035	495	629	435	476
	No response	71.7%	73.2%	72.6%	69.6%	74.3%
warming of cold-water	Yes	28.3%	26.8%	27.4%	30.4%	25.7%
	Unweighted n	2035	495	629	435	476
	No response	83.5%	83.0%	82.5%	86.2%	86.5%
Longer growing season	Yes	16.5%	17.0%	17.5%	13.8%	13.5%
	Unweighted n	2035	495	629	435	476
	No response	30.2%	36.9%	28.6%	28.1%	37.3%
More severe storms	Yes	69.8%	63.1%	71.4%	71.9%	62.7%
	Unweighted n	2035	495	629	435	476
	No response	51.5%	66.4%	52.1%	47.4%	41.4%
Rising coastal sea levels	Yes	48.5%	33.6%	47.9%	52.6%	58.6%
	Unweighted n	2035	495	629	435	476
	No response	89.6%	84.5%	89.7%	92.0%	87.3%
There are no likely effects	Yes	10.4%	15.5%	10.3%	8.0%	12.7%
	Unweighted n	2035	495	629	435	476

Table 13 | Perceptions of climate impacts to one's own community

		STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	No response	50.2%	53.8%	48.2%	48.7%	59.8%
Public water supplies	Yes	49.8%	46.2%	51.8%	51.3%	40.2%
	Unweighted n	2035	495	629	435	476
	No response	62.9%	69.0%	60.6%	64.6%	68.8%
Public sewer systems	Yes	37.1%	31.0%	39.4%	35.4%	31.2%
	Unweighted n	2035	495	629	435	476
	No response	44.6%	52.6%	41.7%	44.2%	57.0%
People's health	Yes	55.4%	47.4%	58.3%	55.8%	43.0%
	Unweighted n	2035	495	629	435	476
	No response	59.3%	64.9%	57.8%	58.9%	64.7%
Transportation/roads/bridges	Yes	40.7%	35.1%	42.2%	41.1%	35.3%
	Unweighted n	2035	495	629	435	476
	No response	75.9%	80.8%	74.8%	76.5%	75.8%
Historical sites	Yes	24.1%	19.2%	25.2%	23.5%	24.2%
	Unweighted n	2035	495	629	435	476
	No response	47.3%	65.9%	48.3%	42.4%	36.8%
Coastlines	Yes	52.7%	34.1%	51.7%	57.6%	63.2%
	Unweighted n	2035	495	629	435	476
	No response	53.0%	64.9%	55.0%	46.2%	44.7%
Wetlands	Yes	47.0%	35.1%	45.0%	53.8%	55.3%
	Unweighted n	2035	495	629	435	476
	No response	52.9%	53.5%	54.6%	48.5%	62.0%
Forests/wildlife	Yes	47.1%	46.5%	45.4%	51.5%	38.0%
	Unweighted n	62.9% $69.0%$ $60.6%$ $64.6%$ $68.$ $37.1%$ $31.0%$ $39.4%$ $35.4%$ $31.$ 2035 495 629 435 47 $44.6%$ $52.6%$ $41.7%$ $44.2%$ $57.$ $55.4%$ $47.4%$ $58.3%$ $55.8%$ $43.$ 2035 495 629 435 47 $59.3%$ $64.9%$ $57.8%$ $58.9%$ $64.$ $40.7%$ $35.1%$ $42.2%$ $41.1%$ $35.$ 2035 495 629 435 47 $75.9%$ $80.8%$ $74.8%$ $76.5%$ $75.$ $24.1%$ $19.2%$ $25.2%$ $23.5%$ $24.$ 2035 495 629 435 47 $47.3%$ $65.9%$ $48.3%$ $42.4%$ $36.$ $52.7%$ $34.1%$ $51.7%$ $57.6%$ $63.$ 2035 495 629 435 47 $53.0%$ $64.9%$ $55.0%$ $46.2%$ $44.$ $47.0%$ $35.1%$ $45.0%$ $53.8%$ $55.$ 2035 495 629 435 47 $52.9%$ $53.5%$ $54.6%$ $48.5%$ $62.$ $47.1%$ $46.5%$ $45.4%$ $51.5%$ $38.$ 2035 495 629 435 47 $43.6%$ $47.9%$ $45.5%$ $37.5%$ $48.$ 2035 495 629 435 47 $43.6%$ $67.9%$ $52.9%$ $52.$ 435 47 <t< td=""><td>476</td></t<>	476			
	No response	43.6%	47.9%	45.5%	37.5%	48.0%
Agriculture	Yes	56.4%	52.1%	54.5%	62.5%	52.0%
	Unweighted n	2035	495	629	435	476
	No response	66.5%	60.4%	69.2%	66.2%	58.3%
Private wells/septic systems	Yes	33.5%	39.6%	30.8%	33.8%	41.7%
	Unweighted n	2035	495	629	435	476
	No response	75.1%	77.7%	76.4%	72.8%	65.9%
Privately owned land/buildings	Yes	24.9%	22.3%	23.6%	27.2%	34.1%
	Unweighted n	2035	495	629	435	476
	No response	88.9%	78.6%	89.9%	92.2%	83.9%
There are no local risks from	Yes	11.1%	21.4%	10.1%	7.8%	16.1%
climate change	Unweighted n	2035	495	629	435	476

Which of the following resources in your community do you think may be harmed by climate change in the next several years? (Please check ALL THAT APPLY)

		2013	2014	Δ
	No response	43.0%	50.2%	
Public water supplies	Yes	57.0%	49.8%	-7.2%
	Unweighted n	2126	2035	
	No response	61.8%	62.9%	
Public sewer systems	Yes	38.2%	37.1%	-1.2%
	2013 2014 No response 43.0% 50.29 Yes 57.0% 49.89 Unweighted n 2126 2033 No response 61.8% 62.99 Yes 38.2% 37.11 Unweighted n 2126 2033 No response 61.8% 62.99 Yes 38.2% 37.11 Unweighted n 2126 2033 No response 33.1% 44.66 Yes 66.9% 55.43 Unweighted n 2126 2033 Yes 40.3% 40.75 Yes 40.3% 40.75 Yes 40.3% 40.75 Yes 40.3% 40.75 Unweighted n 2126 2033 Yes 26.8% 24.11 Unweighted n 2126 2033 Yes 64.5% 52.75 Unweighted n 2126 2033 Yes 59.0% 47.09	2035		
	No response	33.1%	44.6%	
People's health	Yes	66.9%	55.4%	-11.5%
	Unweighted n	2126	2035	
	No response	59.7%	59.3%	
Transportation/roads/bridges	Yes	40.3%	40.7%	0.4%
	Unweighted n	2126	2035	
	No response	73.2%	75.9%	
Historical sites	Yes	26.8%	24.1%	-2.7%
	Unweighted n	2126	2035	
	No response	35.5%	47.3%	
Coastlines	Yes	64.5%	52.7%	-11.8%
Coastlines Wetlands	Unweighted n	2126	2035	
	No response	41.0%	53.0%	
Wetlands	No response 43.0% 50.0% supplies Yes 57.0% 49. Unweighted n 2126 20.0 systems Yes 38.2% 37. Unweighted n 2126 20.0 No response 61.8% 62. systems Yes 38.2% 37. Unweighted n 2126 20.0 No response 33.1% 44. Yes 66.9% 55. Unweighted n 2126 20.0 on/roads/bridges Yes 40.3% 40. Unweighted n 2126 20.0 No response 59.7% 59. on/roads/bridges Yes 40.3% 40. Unweighted n 2126 20.0 No response 73.2% 75. Yes 64.5% 52. Unweighted n 2126 20.0 No response 41.0% 53. Yes 62.0% 47. Unweighted n 2126 20.0 Infe	47.0%	-12.1%	
		2035		
	No response	38.0%	52.9%	
Forests/wildlife	Yes	62.0%	47.1%	-14.8%
	Unweighted n	2126	2035	
	No response	30.3%	43.6%	
Agriculture	Yes	69.7%	56.4%	-13.3%
	es <u>Yes</u> 57.0% 49.85 <u>Unweighted n</u> 2126 2033 <u>No response</u> 61.8% 62.99 Yes 38.2% 37.15 <u>Unweighted n</u> 2126 2033 <u>No response</u> 33.1% 44.69 Yes 66.9% 55.49 <u>Unweighted n</u> 2126 2033 <u>No response</u> 33.1% 44.69 Yes 66.9% 55.49 <u>Unweighted n</u> 2126 2033 <u>No response</u> 59.7% 59.33 Yes 40.3% 40.77 <u>Unweighted n</u> 2126 2033 <u>No response</u> 73.2% 75.99 Yes 26.8% 24.19 <u>Unweighted n</u> 2126 2033 <u>No response</u> 35.5% 47.33 Yes 64.5% 52.77 <u>Unweighted n</u> 2126 2033 <u>No response</u> 35.5% 47.33 Yes 64.5% 52.77 <u>Unweighted n</u> 2126 2033 <u>No response</u> 41.0% 53.09 Yes 59.0% 47.09 <u>Unweighted n</u> 2126 2033 <u>No response</u> 33.0% 47.09 <u>Unweighted n</u> 2126 2033 <u>No response</u> 33.0% 47.09 <u>Unweighted n</u> 2126 2033 <u>No response</u> 30.3% 43.66 Yes 62.0% 47.19 <u>Unweighted n</u> 2126 2033 <u>No response</u> 30.3% 43.66 Yes 69.7% 56.44 <u>Unweighted n</u> 2126 2033 <u>No response</u> 31.2% 66.55 c systems <u>Yes</u> 38.8% 33.55 <u>Unweighted n</u> 2126 2033 <u>No response</u> 61.2% 66.55 Yes 38.8% 33.55 <u>Unweighted n</u> 2126 2033 <u>No response</u> 72.1% 75.11 Yes 27.9% 24.99 <u>Unweighted n</u> 2126 2033 <u>No response</u> 88.3% 88.99 Yes 11.7% 11.11 <u>Unweighted n</u> 2126 2033	2035		
	No response	61.2%	66.5%	
Private wells/septic systems	Yes	38.8%	33.5%	-5.3%
	Unweighted n	2126	2035	
	No response	72.1%	75.1%	
Privately owned land/buildings	Yes	27.9%	24.9%	-3.0%
	Unweighted n	2126	2035	
	No response	88.3%	88.9%	
There are no local risks from climate change	Yes	11.7%	11.1%	-0.7%
	Unweighted n	2126	2035	

Which of the following resources in your community do you think may be harmed by climate change in the next several years? (Please check ALL THAT APPLY)

Sample demographics

Region							
	S	STATE			STATE		
	unweight	ted sample n		weighted %			
Western Region		495		8.4%			
Central Region	1	629			55.4%		
Southern Region		435			30.2%		
Eastern Region		476			6.0%		
Unweighted n	2	2035					
Gender							
	STATE	STATE weighted	WESTERN	CENTRAL	SOUTHERN weighted	EASTERN	

	unweighted sample n	weighted %	weighted %	weighted %	weighted %	weighted %
 Male	799	48.0%	50.0%	48.0%	49.0%	49.0%
Female	1236	52.0%	50.0%	52.0%	51.0%	51.0%
Unweighted n	2035	2035	495	629	435	476

Age							
		STATE	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
		unweighted	weighted	weighted	weighted	weighted	weighted
		sample n	%	%	%	%	%
	18 to 24 years	42	13.0%	11.8%	12.0%	14.0%	14.0%
	25 to 34 years	223	17.5%	15.6%	18.0%	18.0%	14.0%
	35 to 44 years	295	17.5%	17.8%	17.0%	18.0%	15.0%
	45 to 54 years	392	20.0%	20.6%	20.0%	20.0%	18.5%
	55 to 64 years	487	16.0%	16.1%	16.0%	15.5%	17.0%
	65 to 74 years	355	9.0%	9.7%	9.0%	9.0%	12.0%
	75 to 84 years	179	5.0%	5.9%	5.0%	4.0%	7.0%
	85 years and over	62	2.0%	2.4%	3.0%	1.5%	2.5%
	Unweighted n	2035	2035	495	629	435	476

Num	Number of people under 18 years of age currently living in the household								
		STATE unweighted sample n	STATE weighted %	WESTERN weighted %	CENTRAL weighted %	SOUTHERN weighted %	EASTERN weighted %		
	0	1102	55.5%	49.8%	55.2%	57.4%	60.8%		
	1	300	19.4%	22.2%	20.0%	17.3%	21.9%		
	2	245	16.1%	19.7%	15.3%	17.3%	11.3%		
	3	85	6.7%	5.7%	7.3%	5.9%	3.4%		
	4	22	1.2%	2.1%	.6%	1.7%	2.1%		
	5	7	0.6%	.5%	1.0%	.1%	.4%		
	6	2	0.2%	0.0%	.2%	.2%	0.0%		
	7	2	0.2%	0.0%	.4%	0.0%	0.0%		
	9	2	0.0%	0.0%	.0%	0.0%	.2%		
	Unweighted n	1767	1767	422	552	386	407		

Education

	STATE unweighted sample n	STATE weighted %	WESTERN weighted %	CENTRAL weighted %	SOUTHERN weighted %	EASTERN weighted %
Less than high school	43	11.0%	11.5%	11.0%	11.0%	13.0%
High school or GED	845	46.0%	53.5%	41.0%	41.0%	54.0%
Associate's degree	175	6.0%	8.0%	6.0%	6.0%	7.0%
Bachelor's degree	471	20.0%	16.0%	22.0%	22.0%	15.0%
Advanced degree beyond a bachelor's degree	501	17.0%	11.0%	20.0%	20.0%	11.0%
Unweighted n	2035	2035	495	629	435	476

Income						
	STATE	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
	unweighted	weighted	weighted	weighted	weighted	weighted
	sample n	%	%	%	%	%
Less than \$10,000	77	8.6%	5.2%	9.3%	8.7%	7.9%
\$10,000 — \$14,999	79	4.8%	8.4%	3.8%	5.3%	5.1%
\$15,000 — \$24,999	125	7.3%	8.8%	9.0%	3.0%	8.1%
\$25,000 — \$34,999	162	8.5%	7.8%	8.8%	7.9%	12.3%
\$35,000 — \$49,999	250	11.6%	15.1%	10.4%	11.4%	18.0%
\$50,000 — \$74,999	343	16.5%	18.1%	14.2%	17.8%	20.3%
\$75,000 — \$99,999	238	12.4%	10.3%	11.8%	14.8%	11.8%
\$100,000 — \$149,999	338	15.9%	18.6%	18.0%	13.6%	10.4%
\$150,000 or more	295	14.4%	7.7%	14.7%	17.6%	6.0%
Unweighted n	1907	1907	458	595	417	437

Political ideology

	STATE unweighted sample n	STATE weighted %	WESTERN weighted %	CENTRAL weighted %	SOUTHERN weighted %	EASTERN weighted %
Very conservative	182	6.5%	10.8%	4.3%	8.1%	11.1%
Somewhat conservative	418	18.9%	21.9%	18.2%	18.0%	19.7%
Moderate, middle of the road	844	46.8%	46.8%	46.0%	48.2%	50.8%
Somewhat liberal	380	20.8%	13.1%	23.5%	19.8%	13.0%
Very liberal	168	7.1%	7.5%	8.0%	6.0%	5.3%
Unweighted n	1992	1992	485	612	428	467

Hispanic or Latino ethnicity

	STATE unweighted	STATE weighted	WESTERN weighted	CENTRAL weighted	SOUTHERN weighted	EASTERN weighted
	sample n	%	%	%	%	%
Hispanic or Latino	53	3.7%	1.4%	3.8%	3.8%	2.3%
Not Hispanic or Latino	1907	96.3%	98.6%	96.2%	96.2%	97.7%
Unweighted n	1960	1960	472	600	424	464

Race							
		STATE	STATE	WESTERN	CENTRAL	SOUTHERN	EASTERN
		unweighted	weighted	weighted	weighted	weighted	weighted
		sample n	%	%	%	%	%
	White	1548	67.1%	91.0%	68.9%	55.7%	83.6%
	Black or African American	303	21.0%	3.6%	19.4%	30.1%	9.5%
	Asian	44	3.4%	.9%	4.7%	3.5%	0.0%
	American Indian or Alaska	4	0.1%	0.0%	.1%	.1%	.3%
	Native	•					
	Native Hawaiian or other	2	0 1%	0.0%	7%	0.0%	0.0%
	Pacific Islander		0.176	0.076	.270	0.078	0.078
	Other	44	2.8%	2.0%	1.7%	4.3%	.9%
	Two or more races	57	5.5%	2.4%	4.9%	6.2%	5.7%
	Unweighted n	2002	2002	487	614	428	473