APPENDIX A – Tables and figures

Table 1. Summary of Participants' Demographics

Political Party		Highest Education Level Attained		Gender		Desire for Children		Religion		Age Groups		American Citizenship Status	
percentage (n = 268)		percentage (n = 269)		percentage (n= 269)		percentage (n=259)		percentage (n=269)		percentage (n=262)		percentage (n=266)	
Democrat	35.1	No high school degree	1.5	Male	41.3	Yes (or already parents)	61.8	Agnostic	8.6	18-29	37.4	Yes	92.1
Green	3.0	High school diploma	8.9	Female	58.7	No	27.8	Atheist	7.1	30-39	15.6	No	7.9
Independent	11.6	Some college, no degree	32.7			Undecided	10.4	Buddhist	1.5	40-49	12.2		
Libertarian	2.2	Associate's degree	13.4					Christian	44.2	50-59	16.8		
None	19.0	Bachelor's degree	19.7							60-69	11.5		
										70+	6.5		
Other	3.7	Master's degree	15.6					Hindu	0.4				
Republican	14.6	Professional degree	4.1					Jewish	2.6				
Decline to State	10.8	Doctorate	4.1					Muslim	1.5				
								Other	7.1				
								Spiritual but not religious	16.7			Average years in U.S. for non-citizens: 9.5 years	
								Decline to State	10.4				

Table 2. Percent of participants referencing listed concepts when asked about the causes of climate change (question 3), how to slow climate change (question 5), and how humans cause climate change (question 6)
(note: percentages do not add to 100 because participants often referenced more than one concept).

Question	The role of GHGs	Large scale human consumptive practices	The consequences of industrial-ization	Other Emissions	Irresponsible Stewardship of Earth	Climate Change is Natural	Effects as Cause
Causes of climate change	29.3	18.5	55.2	13.0	11.9	10.0	6.3
How to slow climate change	18.9	22.6	26.3	17.4	10.0	0.3	1.8
How humans cause climate change	9.6	30.7	50.7	13.7	18.5	1.1	0.4

	Ozone depletion	Human behaviors that directly affect GHG emissions	Human behaviors that indirectly affect GHG emissions	Climate change is not real	I do not know	Left blank/ Irrelevant Answer	We can't or we do not
Causes of climate change	14.1	N/A	N/A	1.9	10.4	2.6	N/A
How to slow climate change	1.9	30.0	24.8	1.5	9.3	4.8	1.1
How humans cause climate change	2.2	7.4	17.0	2.6	7.0	4.1	0.4

Note: The scoring protocol in Appendix B lists all the individual concepts that are included these groupings. The tone of each grouping is adjusted to fit the question. For example, "the role of GHGs" would be "GHGs cause climate change," "We need to lessen GHG emissions," and "Humans emit GHGs, causing climate change" to fit each question. A N/A indicates that that group was not used in coding that question.

Table 3. Summary of Knowledge Scores (by question and total)

	Causes	Mechanism	Mitigation	Humanity's Role	GHG Definition	GHG Example	Raw Knowledge Score	Adjusted Knowledge Score
Median	2	0	3	2	0	2	9	6.5
Mean	2.04	0.65	2.20	2.09	0.50	1.41	8.9	6.6

Note: See scoring protocol in Appendix B for how responses were scored.

Table 5. Percent of participants referencing listed concepts when asked how greenhouse gases work (question 7) and for an example of a greenhouse gas (question 8)
(note: percentages do not add to 100 because participants sometimes referenced more than one concept).

Question	Gave a correct example of a GHG	I do not know	Left blank	Incorrect explanation/ example of GHGs	GHGs depleted the ozone layer
How greenhouse gases work	3.7	48.1	7.8	16.3	6.3
GHG example	37.4	34.4	7.8	7.0	N/A

Question	GHGs "trapped" heat	GHGs remained in Atmosphere	All GHGs are carbon-based	GHGs are generally dangerous and harmful	Could give a correct source of a GHG
How greenhouse gases work	12.2	3.7	1.1	3.0	N/A
GHG example	N/A	N/A	N/A	N/A	14.1

Note: The scoring protocol in Appendix B lists all the individual concepts that are included these groupings. A N/A indicates that that group was not used in coding that question.

Table 6. Inter-rater Reliability Analysis
(Using about a sixth of the data)

Coding System	Cohen's Kappa	Coding System	Cohen's Kappa
Causes Question	0.765		
Mechanism Question	0.736	Greenhouse Gas Definition Question	0.761
Mitigation **and** Humanity's Role Question	0.646	Greenhouse Gas Example Question	0.809

Table 7. Summary of Responses to Likert Items (note: N =270, where percentages do not add to 100 indicates that some participants did not respond to a given question; an * indicates a reverse coded question)

Policy Preference Issue	Less effort (percent)	Same effort (percent)	More effort (percent)	Mean Likert score
Creating alternative energy programs (e.g., solar or wind power)	4.1	5.9	88.9	4.55
Reducing pollution in the nation's rivers and lakes	1.5	9.3	88.5	4.41
Developing "green" technology	4.8	10.7	84.1	4.36
Creating "green" job programs	8.1	8.5	82.2	4.26
Protecting the ozone layer	5.9	13.0	80.4	4.28
Reducing air pollution in the U.S. (e.g., acid rain)	4.1	16.3	79.6	4.19
Reducing the loss of tropical rainforests	6.3	13.7	78.9	4.23
Maintaining drinkable water	3.0	19.3	77.8	4.18
Reducing America's greenhouse gas emissions	7.8	14.4	77.8	4.21
Protecting plant and animal species from extinction	8.1	15.2	75.2	4.13
Managing urban air pollution (e.g., smog)	5.2	18.9	75.2	4.04
Creating international treaties to limit greenhouse gas emissions worldwide	9.6	16.7	73.7	4.05
Creating more public transportation	5.2	22.6	70.0	4.04
Creating more protected coastal areas	5.9	26.7	64.4	3.95
Developing open space (e.g., for housing or businesses) *	40.0	29.3	28.5	2.87
Encouraging the use of fertilizers to improve agricultural production *	32.2	36.3	27.8	2.89
Lowering government regulation on greenhouse gas emissions *	48.9	22.6	27.0	2.58
Taxing gasoline	41.1	33.0	25.6	2.72
Maintaining economic growth (even at the expense of the environment) *	44.8	29.6	25.2	2.72
Creating more nuclear power plants	53.3	25.9	16.7	2.42

Climate Change Beliefs	Disagree	Neither Agree or Disagree	Agree	
I am certain that global warming (i.e., climate change) is actually occurring.	10.7	7.0	80.4	4.22
Human activities are a significant cause of global warming.	12.6	8.9	77.0	4.08

Hypothetical Scenarios of Sacrifice	Would vote against policy	Undecided	Would vote for policy	Mean Likert score
Would you vote for a policy that *dramatically* reduced greenhouse gas (GHG) emissions AND increased the income tax rate for all Americans by 1%?	17.8	18.9	60.7	3.63
Would you vote for a policy that *dramatically* reduced GHG emissions AND caused *sales taxes* in California to increase across the board by 1%?	25.6	21.9	50.0	3.29
Would you vote for a policy that *dramatically* reduced GHG emissions AND caused the U.S. to decline in relative economic power among the world's countries?	40.0	31.1	26.7	2.73
Would you vote for a policy that *dramatically* reduced GHG emissions AND doubled the price of gas?	49.6	28.1	19.6	2.49

Feelings about Government, Religion, Evolution	Disagree	Neither Agree nor Disagree	Agree	
I am satisfied with San Diego's current environmental policy efforts.	41.9	34.4	19.3	2.64
I trust the federal government.	63.7	17.0	16.3	2.17
I trust San Diego's government	52.2	28.5	15.6	2.37
I am satisfied with the federal government's current environmental policy efforts.	68.1	17.8	11.9	2.13
Human activities are largely responsible for the global warming that is going on now.	13.0	8.1	78.1	4.09
Evolution accurately explains how plants, animals, and humans came to be as they are.	20.0	11.9	66.7	3.77
There exists a supernatural being/deity (e.g., God) or set of beings/deities (gods).	19.6	21.5	57.8	3.69
After death, a person experiences some sort of afterlife (e.g., heaven/hell, nirvana, enlightenment, etc.).	16.3	27.4	55.2	3.67
The United States is one of the very best countries on our planet (e.g., "in the top three").	19.6	24.4	54.8	3.58
Biblical creation accurately explains how plants, animals, and humans came to be as they are.	52.6	15.6	30.7	2.54

Table 8. Percent of participants choosing major cause, minor cause, or not a cause for given possible causes of climate change (Notes: accepted responses bolded, N =270, where percentages do not add to 100 indicates that some participants did not respond to a given question)

	Major cause	Minor cause	Not a cause
Emissions from industry or business	**77.4**	18.1	1.5
Ozone depletion in the upper atmosphere	74.4	15.6	**6.7**
Deforestation	**74.1**	17.0	4.8
Use of gas-powered cars	**71.1**	23.0	3.0
Combustion of Oil	**70.0**	22.6	3.7
Combustion of Coal	**65.2**	25.9	4.4
Use of chemical pesticides	47.4	**37.0**	**11.5**
Use of aerosol cans	40.0	**44.4**	**12.6**
Use of chemical fertilizers	**39.6**	**42.2**	13.0
Generation of Nuclear Power	36.7	**31.9**	**27.4**
Use of air transportation	**35.9**	**50.7**	10.7
Production of livestock	**30.0**	41.1	25.6
Use of residential heating and cooling	**28.1**	52.2	15.6

Table 9. Policy Preference and Adjusted Knowledge Score Correlations (Bold ρ values are significant, $p<0.05$, a * indicates a reverse coded question)

Scale	Pollution Issues	ρ (p-value)	Resources Issues	ρ (p-value)	Climate Issues	ρ (p-value)
Local	Maintaining drinkable water	0.0480 (0.483)				
	Managing urban air pollution (e.g., smog)	**0.152** (0.0211)	Developing open space (e.g., for housing or businesses) *	-0.0682 (0.288)	Creating more public transportation	0.107 (0.113)
National	Reducing pollution in the nation's rivers and lakes	0.0943 (0.184)	Creating "green" job programs	0.0935 (0.180)	Creating alternative energy programs (e.g., solar or wind power)	**0.252** (<0.001)
	Developing "green" technology	**0.197** (0.00295)	Maintaining economic growth (even at the expense of the environment) *	**-0.154** (0.0132)	Reducing America's greenhouse gas emissions	**0.283** (<0.001)
	Reducing air pollution in the U.S. (e.g., acid rain)	**0.147** (0.0274)	Creating more protected coastal areas	0.0673 (0.324)	Lowering government regulation on greenhouse gas emissions *	**-0.398** (<0.001)
	Encouraging the use of fertilizers to improve agricultural production *	**-0.284** (<0.001)				
	Taxing gasoline	**0.246** (<0.001)				
	Creating more nuclear power plants	0.0364 (0.588)				
Global			Protecting plant and animal species from extinction	0.0325 (0.636)		
	Protecting the ozone layer	0.0850 (0.235)	Reducing the loss of tropical rainforests	**0.193** (0.00379)	Creating international treaties to limit greenhouse gas emissions worldwide	**0.261** (<0.001)

Table 10. Adjusted Knowledge score by demographic group (bold p-values indicate significant difference, p<0.05); groups ordered by decreasing knowledge score

Relationship	Kruskal-Wallis Results	Level	Mean	n
Adjusted Knowledge – Location[1]	Kruskal-Wallis χ^2= 7.143, df =4, p-value = 0.129	Chemistry Class 2	8.23	21
		Balboa Park	6.82	170
		Humanities Class	6.20	27
		Chemistry Class 1	5.93	21
		Santee Lakes	5.30	30
Adjusted Knowledge - Religion	Kruskal-Wallis χ^2= 27.979, df = 9, **p-value < 0.001**	Hindu (only one participant)	11.00	1
		Agnostic	9.80	23
		Atheist	8.79	19
		Decline to state	7.45	28
		Spiritual but not religious	6.97	45
		Other	5.82	19
		Christian	5.68	119
		Jewish	5.07	7
		Buddhist	4.75	4
		Muslim	2.63	4
Adjusted Knowledge – Education Level	Kruskal-Wallis χ^2=40.618, df = 7, **p-value < 0.001**	Doctorate	11.09	11
		Master's degree	8.47	42
		Professional degree	7.95	11
		Bachelor's degree	7.11	53
		Associate's degree	6.56	36
		Some college, no degree	5.93	88
		High school diploma	2.92	24
		No high school diploma	1.75	4
Adjusted Knowledge – Gender	Kruskal-Wallis χ^2=0.834, df = 1, p-value = 0.361	Male	6.93	111
		Female	6.38	158
Adjusted Knowledge – Desire for Children	Kruskal-Wallis χ^2= 9.788, df = 2, **p-value = 0.00749**	undecided	7.81	27
		no	7.69	72
		yes	5.88	160
Adjusted Knowledge – Age Groups	Kruskal-Wallis χ^2= 7.646, df = 5, p-value = 0.177	60-69	7.52	30
		30-39	7.26	41
		18-29	6.94	98
		50-59	6.45	44
		40-49	5.36	32
		70+	4.74	17
Adjusted Knowledge – Political Party	Kruskal-Wallis χ^2 = 15.4716, df = 7, **p-value = 0.03041**	Green	12.13	8
		Libertarian	8.17	6
		Democrat	7.05	94
		None	6.61	51
		Other	6.60	10
		Decline to state	6.09	29
		Independent	5.91	31
		Republican	5.06	39

[1] There was one park site where only one participant completed the survey. Though that participant is included in all the other analyses, that data is excluded from analysis based on location surveyed.

Table 11. Mechanistic Knowledge's Relation to Acceptance of climate change and willingness to sacrifice (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1); none, low, medium, and high correspond to 0,1,2, and 3 points, respectively, on knowledge question 4

Factor	Kruskal-Wallis χ^2(df), p-value	Means	
Mechanistic Knowledge score and Belief in *Anthropogenic* climate change	1.946(3), p=0.584	None	4.00
		Low	4.15
		Medium	4.23
		High	4.28
Polychoric correlation		Rho = 0.114 (p= 0.151)	
Mechanistic Knowledge score and Belief in Climate Change	5.245(3), p =0.155	None	4.09
		Low	4.37
		High	4.40
		Medium	4.59
Polychoric correlation		Rho = 0.172, (**p = 0.0331***)	
Sacrifice: Increase income tax	5.684(3), p = 0.128	None	3.57
		Low	3.58
		Medium	3.80
		High	4.10
Sacrifice: Double Price of Gas	8.633(3), p=0.0346	Low	2.26
		None	2.46
		High	2.95
		Medium	3.00
Sacrifice: Decrease US's economic standing	1.34(3), p=0.719	Low	2.62
		None	2.75
		Medium	2.85
		High	2.90
Sacrifice: Increase CA's sale tax	6.327(3), p=0.0968	Low	3.14
		None	3.23
		Medium	3.70
		High	3.76

Ordinal models and linear model estimates

Acceptance of Climate Change Model

Table 12. Analysis of deviance of ordinal model with certainty in global warming's reality as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1). Note: **bold** values indicate significance, p<0.05; *italicized* values indicate marginal significance, p<0.1

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**4.393 (<0.001 ***)**
Adjusted Score	**7.323(1)**	**0.00685 ****	slope	**0.163 (0.0215*)**
Political Party	**17.323 (7)**	**0.0154 ***	None	4.211 (0.386)
			Decline	4.145 (0.297)
			Green	4.070 (0.452)
			Independent	**3.833 (0.0186*)**
			Other	3.833 (0.134)
			Republican	**3.765 (0.00387**)**
			Libertarian	*3.615 (0.0949')*
Educational Level	**16.711 (7)**	**0.0194 ***	Doctorate	5.085 (0.103)
			Professional	4.926 (0.187)
			Bachelors	**4.923 (0.0291*)**
			Masters	4.827 (0.0916)
			Some college	4.668 (0.214)
			< High school	4.478 (0. 886)
			High school	3.957 (0. 148)
American citizenship Y/N	**4.002 (1)**	**0.0455 ***	*yes*	*3.904 (0.0593')*

Willingness to sacrifice models

Table 15. Analysis of deviance of ordinal model with willingness to sacrifice: increase income tax as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**2.160 (<0.001 ***)**
Adjusted Score	**3.897 (1)**	**0.0484 ***	slope	0.0784 (0.190)
Political Party	**25.407(7)**	**<0.001*****	Green	2.805 (0.0109)
			None	2.2321 (0.688)
			Other	1.927 (0.494)
			Decline	**1.704 (0.0416*)**
			Independent	**1.665 (0.0219*)**
			Libertarian	1.531 (0.143)
			Republican	**1.433 (<0.001***)**
Satisfaction level with the federal government	**13.928(4)**	**0.00753****	slope	-0.0977 (0.139)
Attitude about anthropogenic CC	**48.713(4)**	**<0.001*****	**slope**	**0.430 (<0.001***)**

Table 17. Analysis of deviance of ordinal model with willingness to sacrifice: USA loses economic prominence as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**2.223 (<0.001 ***)**
Age	**7.585(1)**	**0.00589 ****	**slope**	**-0.011(0.00865**)**
Political Party	**14.704(7)**	**0.0400 ***	Green	2.391 (0.696)
			Other	2.3016 (0.830)
			None	2.033 (0.351)
			Decline	1.823 (0.103)
			Independent	*1.811 (0.0882')*
			Libertarian	1.462 (0.105)
			Republican	**1.433 (<0.001***)**
Attitude about anthropogenic CC	**32.863 (4)**	**<0.001 *****	**slope**	**0.297 (<0.001***)**

Table 18. Analysis of deviance of ordinal model with willingness to sacrifice: increase sales tax as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**1.745(<0.001 ***)**
Adjusted Score	**16.694 (1)**	**<0.001 *****	**Score**	**0.235 (<0.001 ***)**
Political Party	**18.095 (7)**	**0.0116***	Green	2.109 (0.551)
			None	1.599 (0.461)
			Decline	1.37 (0.129)
			Independent	**1.272 (0.0466*)**
			Other	1.158 (0.119)
			Republican	**0.991 (<0.001***)**
			Libertarian	0.976 (0.104)
Satisfaction level with the federal government	**10.802 (4)**	**0.0289***	slope	-0.120 (0.102)
Attitude about anthropogenic CC	**40.695(4)**	**<0.001*****	**slope**	**0.414 (<0.001***)**

Climate change policy issues

Table 20. Analysis of deviance of ordinal model with desire to make policy that creates alternative energy programs as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**3.553 (<0.001 ***)**
Adjusted Score	**4.502 (1)**	**0.0339 ***	*slope*	*0.0753 (0.0917')*
Attitude about anthropogenic CC	**16. 953 (4)**	**0.00197****	**slope**	**0.234 (<0.001***)**
Satisfaction level with the federal government	**15.168 (4)**	**0.00436 ****	*slope*	-0.0371 (0.4165)

Table 21. Analysis of deviance of ordinal model with desire to create policy that lowers government regulation on greenhouse gas emissions as the outcome (reverse coded*)
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**3.912 (0.001***)**
Adjusted score	**21.257 (1)**	**<0.001 ***	**Slope**	**-0.342 (<0.001***)**
Educational Level	**18.315 (7)**	**0.0106 ***	Some college	3.927 (0.952)
			High school	3.890 (0.946)
			Bachelors	3.780 (0.623)
			< High school	3.724 (0.771)
			Masters	**3.294 (0.0300*)**
			Professional	**3.033 (0.0375*)**
			Doctorate	**2.805 (0.0181*)**
Attitude about anthropogenic CC	*8.426 (4)*	*0.0772 '*	**slope**	**-0.143 (0.0283*)**

Table 22. Analysis of deviance of ordinal model with desire to create policy that creates international treaties to reduce GHGs as the outcome (reverse coded)
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**2.406 (<0.001***)**
			Green	**3.140 (0.0378*)**
			Republican	2.400 (0.976)
			Libertarian	2.397 (0.982)
Political Party	**14.740 (7)**	**0.0395***	None	2.348 (0.720)
			Decline	2.326 (0.686)
			Independent	2.109 (0.121)
			Other	1.987 (0.169)
Attitude about anthropogenic CC	**26.704 (4)**	**<0.001 *****	**slope**	**0.357 (<0.001***)**
Certainty that CC is occurring	**12.973 (4)**	**0.0114 ***	*slope*	*0.132 (0.0986')*
Satisfaction level with federal government	**23.599(4)**	**<0.001 *****	**slope**	**-0.148 (0.0122*)**

Table 23. Analysis of deviance of ordinal model with desire to create policy that creates more public transportation as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**4.582 (<0.001***)**
Satisfaction level with federal government	**12.385 (4)**	**0.0147 ***	**Slope**	**-0.150 (0.00979**)**
			Green	4.776(0.612)
			Decline	4.472 (0.581)
			Libertarian	4.445 (0.715)
Political Party	**24.641 (7)**	**<0.001 *****	Other	4.314 (0.377)
			None	**4.105(0.00393**)**
			Independent	**3.962(<0.001***)**
			Republican	**3.839(<0.001***)**
Educational Level	**29.565 (7)**	**<0.001 *****	**Masters**	**5.06 (0.0238*)**
			Bachelors	**4.986 (0.0466*)**
			Professional	4.774 (0.575)
			High school	4.576(0.978)
			Doctorate	4.458 (0.692)
			Some college	4.371 (0.244)
			< High school	4.200 (0.424)

Resources Policy Issues

Table 24. Analysis of deviance of ordinal model with desire to create policy that reduces the loss of tropical rainforests as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**3.383 (<0.001***)**
Political Party	**33.280(7)**	**<0.001 *****	**Libertarian**	**4.259 (0.0220*)**
			Green	*3.991(0.0850')*
			None	3.549 (0.300)
			Republican	3.386 (0.986)
			Decline	3.227 (0.425)
			Independent	**2.933(0.0189*)**
			Other	**2.632 (0.0137*)**
Attitude about anthropogenic CC	**29.576 (4)**	**<0.001 *****	**slope**	**0.290 (<0.001***)**
Satisfaction level with federal government	**27.374 (4)**	**<0.001 *****	**slope**	**-0.138 (0.0186 *)**

Table 25. Analysis of deviance of ordinal model with desire to create policy that develops open space as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression $\chi2(df)$	Pr(> $\chi2$)		Lm estimate (p-value)
			Mean	**2.349 (<0.001*)**
Satisfaction level with federal government	**9.677 (4)**	**0.0462***	Slope	**0.160 (0.0300*)**
Educational Level	**18.874 (7)**	**0.00859****	< High school	3.22(0.165)
			Doctorate	*3.06 (0.0990')*
			High school	*2.901 (0.0881')*
			Bachelors	*2.84 (0.0640')*
			Professional	2.78 (0.312)
			Masters	2.676 (0.236)
			Some college	2.152 (0.411)

Table 26. Analysis of deviance of ordinal model with desire to create policy that creates more green jobs programs as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression $\chi2(df)$	Pr(> $\chi2$)		Lm estimate (p-value)
			Mean	**2.951 (<0.001***)**
Satisfaction level with federal government	**30.424 (4)**	**<0.001****	Slope	-0.0852 (0.120)
Political Party	**17.074 (7)**	**0.0169 ***	Green	3.42 (0.159)
			None	2.843(0.478)
			Decline	2.755 (0.289)
			Republican	2.678 (0.110)
			Libertarian	2.594 (0.319)
			Other	2.537(0.148)
			Independent	**2.443 (0.00549**)**
Attitude about anthropogenic CC	**49.816 (4)**	**<0.001 ****	slope	**0.403 (<0.001***)**

Table 27. Analysis of deviance of ordinal model with desire to create policy that protects plant and animal species as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	3.005 (<0.001 ***)
Attitude about anthropogenic CC	15.411(4)	0.00392 **	slope	0.338(<0.001***)
Satisfaction level with the federal government	20.514 (4)	<0.001 ***	*slope*	*-0.114 (0.056')*

Table 28. Analysis of deviance of ordinal model with desire to create policy that maintains economic growth the outcome (reverse coded*) (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	2.904 (<0.001 ***)
Attitude about anthropogenic CC	14.965 (4)	0.00477**	slope	-0.170 (0.00461**)
Satisfaction level with the federal government	21.390 (4)	<0.001***	slope	0.237 (0.00102**)

Table 29. Analysis of deviance of ordinal model with desire to create policy that protects coastal areas as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	2.557 (<0.001 ***)
American citizenship status	*3.237 (1)*	*0.0720 '*	yes	3.0457 (0.0377 *)
Certainty that CC is occurring	22.433 (4)	<0.001 ***	slope	0.257(<0.001***)
Satisfaction with the federal government	13.717(4)	0.00826 **	slope	-0.0689 (0.272)

Pollution Policy Issues

Table 30. Analysis of deviance of ordinal model with desire to create policy that maintains drinkable water as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**3.250 (<0.001***)**
Age	**7.592 (1)**	**0.00586****	**slope**	**0.00796(0.00655**)**
Humans are a significant cause of CC	**18.611 (4)**	**<0.001 *****	**slope**	**0.173 (<0.001***)**
Satisfaction with the federal government	**19.121 (4)**	**<0.001 *****	slope	-0.0344 (0.495)

Table 31. Analysis of deviance of ordinal model with desire to create policy that reduces pollution in rivers and lakes as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	3.766
Political Party	*13.488(7)*	*0.0611'*	Libertarian	4.066(0.319)
			Green	3.933 (0.547)
			Decline	3.7463 (0.945)
			None	3.7206(0.730)
			Republican	3.535 (0.107)
			Independent	**3.354(0.00919**)**
			Other	*3.338 (0.0723')*
Attitude about anthropogenic CC	**12.385 (4)**	**0.0147 ***	**slope**	**0.171 (<0.001***)**
Satisfaction level with federal government	**23.467 (4)**	**<0.001 *****	*slope*	*-0.0829 (0.0707')*
Age	**5.551 (1)**	**0.0185 ***	**slope**	**0.00565 (0.0362*)**

Table 32. Analysis of deviance of ordinal model with desire to create policy that develops green technology as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ^2(df)	Pr(> χ^2)		Lm estimate (p-value)
			Mean	**3.141 (<0.001 ***)**
Attitude about anthropogenic CC	**45.041(4)**	**<0.001 ***	**slope**	**0.349 (<0.001***)**
Satisfaction level with the federal government	**14.382 (4)**	**0.00617 **	**slope**	**-0.102 (0.0393*)**

Table 33. Analysis of deviance of ordinal model with desire to create policy that protects the ozone layer as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ^2(df)	Pr(> χ^2)		Lm estimate (p-value)
			Mean	**2.770 (<0.001***)**
Political Party	**15.980(7)**	**0.0253***	*Green*	*3.414(0.0575')*
			Libertarian	3.062 (0.417)
			Republican	2.846 (0.660)
			None	2.817(0.754)
			Decline	2.628 (0.444)
			Independent	*2.413(0.0516')*
			Other	2.368(0.160)
Attitude about anthropogenic CC	**62.734 (4)**	**<0.001***	**slope**	**0.454 (<0.001***)**
Satisfaction level with federal government	*8.392 (4)*	*0.0782'*	slope	-0.0871 (0.123)
Adjusted Knowledge Score	**4.457 (1)**	**0.0348***	slope	-0.0695 (0.166)

Table 34. Analysis of deviance of ordinal model with desire to create policy that reduces national air pollution as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression $\chi2$(df)	Pr(> $\chi2$)		Lm estimate (p-value)
			Mean	**3.616 (<0.001***)**
			Green	4.056 (0.145)
			Other	3.611 (0.984)
			None	3.55(0.762)
Political Party	*13.532 (7)*	*0.0607'*	Libertarian	3.573(0.895)
			Decline	3.450 (0.322)
			Republican	3.372(0.115)
			Independent	**3.159 (0.00539**)**
Attitude about anthropogenic CC	**27.405 (4)**	**<0.001***	slope	**0.227 (<0.001 ***)**
Satisfaction level with federal government	**13.967 (4)**	**0.00740* ***	slope	**-0.100 (0.0446*)**

Table 35. Analysis of deviance of ordinal model with desire to create policy that uses fertilizers to increase agricultural production as the outcome (reverse coded*) (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression $\chi2$(df)	Pr(> $\chi2$)		Lm estimate (p-value)
			Mean	**3.969 (<0.001 ***)**
Adjusted Knowledge	**17.933 (1)**	**<0.001***	slope	**-0.283 (<0.001***)**
Age	**13.139 (1)**	**<0.001 ***	slope	**-0.0156 (<0.001***)**

Table 36. Analysis of deviance of ordinal model with desire to create policy that taxes gasoline as the outcome
(Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**1.476(<0.001***)**
			Independent	1.495 (0.380)
			Green	1.164 (0.473)
			Other	1.161 (0.415)
Political Party	**20.630 (7)**	**0.00436 ****	Decline	1.160 (0.203)
			Libertarian	1.045 (0.380)
			None	**0.792 (<0.001***)**
			Republican	**0.657 (<0.001***)**
Attitude about anthropogenic CC	**25.434 (4)**	**<0.001 *** **	**slope**	**0.303 (<0.001***)**
Adjusted knowledge	**8.653 (1)**	**0.00326** **	**slope**	**0.194(0.00406**)**

Table 37. Analysis of deviance of ordinal model with desire to create policy that manages urban air pollution as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**2.797 (<0.001 ***)**
American citizenship status	*3.375 (1)*	*0.0662 '*	**yes**	**3.228 (0.0376 *)**
Certainty that climate change is occurring	**26.794 (4)**	**<0.001 *** **	**slope**	**0.231(<0.001***)**
Satisfaction with the federal government	**16.072 (4)**	**0.00293 ****	slope	-0.056 (0.311)

Table 38. Analysis of deviance of ordinal model with desire to create policy that creates more nuclear power plants as the outcome (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**3.592 (<0.001 ***)**
Adjusted Knowledge	*2.917 (1)*	*0.0877'*	*slope*	*0.127 (0.062')*
Certainty that CC is occurring	**27.014 (4)**	**<0.001*** **	**slope**	**-0.327 (<0.001***)**

Models which include RTMD constructs

Table 39. Analysis of deviance of ordinal model with belief in global warming's reality as the outcome +
RTMD constructs (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression $\chi2$(df)	Pr(> $\chi2$)		Lm estimate (p-value)
			Mean	**4.407 (<0.001***)**
American Y/N	**5.713 (1)**	**0.0168***	**yes**	**3.850 (0.0287*)**
Educational Level	**20.354 (7)**	**0.00485****	*Doctorate*	*5.138 (0.0678')*
			Professional	5.006 (0.123)
			Bachelors	**4.950 (0.0210*)**
			Masters	4**.910 (0.0412*)**
			Some college	4.752(0.108)
			< High school	4.296 (0.844)
			High school	4.050 (0.211)
Evolution	**9.510(4)**	**0.0495***	**slope**	**0.154 (0.00852**)**
Creation	**11.935(4)**	**0.0178***	**slope**	**-0.137 (0.00755**)**
Political Party	*12.530 (7)*	*0.0844'*	None	4.187 (0.252)
			Decline	4.179 (0.317)
			Green	4.137 (0.503)
			Other	4.041(0.315)
			Independent	4.023 (0.104)
			Republican	**3.934 (0.0238*)**
			Libertarian	3.810 (0.181)

Table 40. Analysis of deviance of ordinal model with belief in anthropogenic global warming as the outcome+
RTMD constructs (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression $\chi2$(df)	Pr(> $\chi2$)		Lm estimate (p-value)
			Mean	**2.959 (<0.001***)**
Gender	**4.205 (1)**	**0.0403***	**male**	**2.683 (0.00912**)**
Educational Level	**14.087 (7)**	**0.0497***	*Doctorate*	*3.743 (0.0575')*
			Professional	3.573 (0.114)
			< High school	3.522 (0.350)
			Masters	**3.521 (0.0305*)**
			Bachelors	3.361 (0.103)
			Some college	3.216 (0.256)
			High school	2.823 (0.656)
Evolution	**20.207 (4)**	**<0.001*****	**slope**	**0.217(<0.001***)**
Adjusted score	*3.0340 (1)*	*0.0815'*	slope	0.0946 (0.179)

Table 41. Analysis of deviance of ordinal model with mechanistic knowledge score (knowledge question 4) as the outcome + RTMD constructs (Significance codes: 0 *** 0.001 ** 0.01 * 0.05 ' 0.1)

Factor	Logistic Regression χ2(df)	Pr(> χ2)		Lm estimate (p-value)
			Mean	**1.116 (<0.001***)**
Gender	**10.464(1)**	**0.00121****	male	1.497 (<0.001***)
Educational Level	**16.042 (7)**	**0.0247***	**Doctorate**	**1.829 (0.0182*)**
			Professional	*1.682 (0.0626')*
			Masters	*1.453 (0.0940')*
			Bachelors	1.180 (0.738)
			Some college	1.0263 (0.609)
			High school	0.938 (0.451)
			< High school	0.612 (0.274)
Age	**7.605(1)**	**0.00582****	**slope**	**-0.00888 (0.00734**)**
Creation	**15.086 (4)**	**0.00453****	**slope**	**-0.126 (<0.001***)**

Table 42. RTMD Pearson's correlation matrix (upper right half = r values; lower left half = p-values)

	Evolution	**GW**	**Nationalism**	**Deity**	**Afterlife**	**Creation**
Evolution	1	0.401	-0.105	-0.396	-0.339	-0.514
GW	**<0.001**	1	-0.0663	-0.214	-0.187	-0.298
Nationalism	*0.0792*	0.233	1	0.279	0.263	0.272
Deity	**<0.001**	**<0.001**	**<0.001**	1	0.713	0.589
Afterlife	**<0.001**	**0.00315**	**<0.001**	**<0.001**	1	0.474
Creation	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**	1

Note: controlled for American citizens or non-citizens who had resided in the US for 10+ years.

APPENDIX B – Scoring protocol

(Note: interrater reliability was conducted on the *concept group level*, italicized and underlined)

In response to Question 3: "Regardless of whether *you* believe that global warming is occurring, what do scientists (who think that global warming is occurring) believe causes global warming?"

3 Points	Correct scientific explanations of major causes of global warming	Idealized example
	The Role of Carbon/Greenhouse Gas Emissions	
	Carbon emissions, greenhouse gases	"Carbon emissions," "our carbon footprint" "GHGs"
	The greenhouse effect	"The greenhouse effect causes global warming"
	Large Scale Human Consumptive Practices that Emit GHGs	
	Livestock or agriculture	"Raising cattle" "using fertilizers for agriculture"
	Deforestation	"cutting down trees" "killing the rainforest"
	Fossil fuel usage	"Burning fossil fuels causes global warming"

2 Points	More vague or general responses than those listed above	Idealized example
	Humans' Irresponsible Stewardship of Earth	
	Natural resources overused/ over developed.	"We are using too many natural resources"
	Human failure to preserve	"We are abusing the environment"
	Overpopulation	"There are too many people"
	The Consequences of Modern Industrialization	
	Production, industry, factories, power plants	"Human industry"
	Human behaviors (e.g., driving/cars)	"We drive too many cars"
	Pollution/human waste (does *not* list a specific gas)	"smog" "air pollution"
	Other Emissions (compare with "carbon emissions/GHG" category above)	
	Aerosols, chemicals	"Chemicals in the air" "pesticides"
	General emissions	"gas emissions" "car emissions"

1 Point	*Climate Change is at least partially natural*	
	Natural processes – implies that global warming is at least partially not related to humans.	"The natural cycles of the earth cause global warming" "It is a natural and normal change"
	Effects as Cause	
	Effects as cause- warmer oceans, El Nino.	"the oceans are warmer and that causes global warming"

0 Points	Incorrect or Incomplete Responses	
	Misconceptions	
	Ozone depletion	"The ozone hole causes global warming"
	Nonresponsive	
	Don't care, fake, not a threat	"Global warming isn't real, so nothing causes it"
	I don't know	
	Left Blank/ Completely Irrelevant Answer	

In response to Question 4: "How is global warming supposed to work (according to scientists who think that global warming is occurring)? That is, what is the basic physical, chemical, or biological mechanism of global warming?" Combine codes above with mechanism codes (a-i) below. To get a-i, however, the response has to be mechanistic somehow – not just a list of causes. Many responses just listed causes, and so only get credit for the causes, not the mechanism.

label	Definition	Examples	Points
Complete Mechanism			
a	Something is trapping heat → gets combined with codes above	"GHGs are trapping heat from the sun."	**3 Points: a referenced *with* GHG/carbon emissions, deforestation, agriculture, or fossil fuel use**
Energy Differentiation			
e	Energy differentiation attempt. Has to imply that some type of energy is leaving surface of earth (not just coming in).	"Visible light gets absorbed by earth, and is emitted as infrared light. GHGs absorb infrared light, causing warming"	**2 bonus points**
Something is trapping heat, but not as complete as above			
a	Something is trapping heat → gets combined with codes above	"Car emissions are trapping heat from the sun."	**2 Points: a, a referenced *with* general emissions, general human activities, or pollution**
GHGs augment heat, but no reference as to HOW			
c	GHGs augmenting heat on own – no explanation of how GHGs trap heat. Augment GHG level or make a layer, temps increase	"There is a layer of GHGs that is making it hotter"	**2 Points: c *with* GHG/carbon emissions**
Tangential Mechanism			
f	Loss of x → heat increase. Combined with above.	"We are losing too many trees and this causes temps to go up"	**1 point: f *with* deforestation or effects**
i	Something is wrong with the atmosphere. Vague and holistic.	"The earth cannot handle all the gases we emit, causing temperatures to go up"	**1 point: i *with* anything**
Causes as Mechanism			
	Must be alone and not a mechanistic explanation: Just a cause.	"GHGs cause global warming"	**1 point**
No Mechanism Given, but acknowledges change			
d	Temperature increasing – vague – often in conjunction with effects	"Temperatures are rising, causing melting glaciers and more hurricanes"	**0 points: d *with* anything**
h	Just changing on its own, natural	"The environment is changing, causing global warming"	**0 Points: h *with* anything**
Mechanism with Misconception			
b	A hole in the atmosphere/ozone is letting heat/energy/light, etc. in or out → gets combined with codes above	"A hole in the ozone is letting too much energy in"	**0 Points: b, b *with* anything**
Non Responsive			
	I don't know,		**0 points**
	I don't care, I don't think it's real		
	Left Blank/ Irrelevant answer		

In response to: 5) "What can be done to slow global warming, according to those who believe that it is occurring?"
And 6) "How are humans, if at all, believed to contribute to global warming?"
For Question 5: Adjust tone of codes below to "Reduce x." E.g., "We must reduce GHG emissions" would be the GHG code in Question 5.
For Question 6: Adjust tone of codes below to "We do x" E.g., "we produce GHGs" would be the GHG code in question 6.

3 Points	Correct scientific explanations of how to slow global warming	Idealized example
	The Role of Carbon/Greenhouse Gas Emissions	
	Carbon/gas emissions, GHGs	"Carbon emissions," "our carbon footprint" "GHGs"
	Large Scale Human Consumptive Practices that Emit GHGs	
	Deforestation	"cutting down trees" "killing the rainforest"
	Livestock/agriculture	"Raising cattle" "using "fertilizers for agriculture"
	Fossil Fuel Usage	"Burning fossil fuels causes global warming"
	Human behavior that directly influence climate change	
	Use Alternative/green transportation or Alternative/ green energy technology	"we need to find new ways to produce energy"
	Lower energy use/consumption	"We must lower our energy use at home"
	Carbon abatement	"We should sequester carbon"

2 points	Mostly correct scientific explanations of how to slow global warming	Idealized example
	The Consequences of Modern Industrialization	
	Human activities	"We drive too many cars"
	Human industry, electricity, factories, power plants.	"businesses"
	Pollution/human waste	"smog"/ "air pollution"
	Other Emissions (compare with "carbon emissions/GHG" category above)	
	Aerosols, chemicals, cfcs	"Chemicals in the air" "CFCs"
	General emissions	"gas emissions"
	Humans' Irresponsible Stewardship of Earth	
	Natural resources overused/ over developed.	"We are using too many natural resources"
	Human failure to preserve.	"We are abusing the environment"
	Overpopulation	"There are too many people"
	General Human Behaviors that can Indirectly Influence Climate Change	
	General green/ecofriendly	"We need to go green"
	Increase governmental regulation, policy	"The government needs to have stricter regulations"
	Recycle etc.	"People must reduce, reuse, and recycle"
	Lower consumption, waste, litter	"We must use fewer products"
	Education	"People need to learn about the causes"

1 Point	Other explanations to slow climate change vague or general	Idealized Examples
	Change Natural processes – implies that global warming is at least partially not related to humans.	"The natural cycles of the earth cause global warming"
	Effects as Cause	
	Change effects as cause- warmer oceans, el Nino.	"the oceans are warmer and that causes global warming"
	Slow down causes (useless answer)	"We have to slow down the causes"

0 Points	Misconceptions	
	Ozone depletion	"The ozone hole causes global warming"
	Don't care, fake, not a threat	"Global warming isn't real, so nothing causes it"
	We can't	"It is too late"
	Nonresponsive	
	I don't know	"I don't know"
	Left blank/ Completely Irrelevant Answer	

New coding scheme for Greenhouse gas questions 7) "What distinguishes a greenhouse gas from other types of gases in our atmosphere?" And 8) "What is an example of a greenhouse gas?"

Greenhouse gases do/are/make … etc.		
Correct Explanation		
3 Points	Trap heat/cause insulation/ solar energy retention.	"Greenhouse gases absorb heat" or "GHGs stop heat from leaving earth"
Correct Source		
2 Points	Gas/fuel/car emissions	"GHGs come from gas emissions"
Partially Correct Explanation		
2 Points	Generally harmful/raise temp	"GHGs raise the earth's temperature"
Correct Example (note: in q7, a correct example of a GHG falls into the partially incorrect overarching category, while in q8 it falls into the correct overarching category)		
In q7: 1 point **In q8: 3 Points**	Gives at least one correct example of GHG	CO2, Methane, CO, Ozone, CFCs NOT oxygen, nitrogen, etc.
Partially Incorrect Chemical Explanations		
1 Point	Stay in atmosphere	"GHGs remain in the atmosphere longer"
	Carbon-based	"GHGs are carbon based"
0 Points	*Misconceptions*	
	Not natural/human origin	"GHGs are not naturally in our atmosphere"
	Something to do with plants	"GHGs come from photosynthesis"
	Other wrong explanation	"GHGs are not harmful"
	Ozone Misconception	
	Affect ozone	"Greenhouse gases destroy the ozone"
	Non responsive	
	I don't know	"I don't know"
	Left Blank/ Completely Irrelevant Answer	

APPENDIX C- List of survey questions

How much _effort_ do you think the _federal_ government should put into addressing the issues below?

(please circle your response)	A lot less	Moderately less	About the same	Moderately more	A lot more
Maintaining drinkable water	1	2	3	4	5
Reducing pollution in the nation's rivers and lakes	1	2	3	4	5
Developing open space (e.g., for housing or businesses)	1	2	3	4	5
Creating international treaties to limit greenhouse gas emissions worldwide	1	2	3	4	5
Reducing the loss of tropical rainforests	1	2	3	4	5
Creating alternative energy programs (e.g., solar or wind power)	1	2	3	4	5
Reducing America's greenhouse gas emissions	1	2	3	4	5
Developing "green" technology	1	2	3	4	5
Creating "green" job programs	1	2	3	4	5
Protecting the ozone layer	1	2	3	4	5
Maintaining economic growth (even at the expense of the environment)	1	2	3	4	5
Reducing air pollution in the U.S. (e.g., acid rain)	1	2	3	4	5
Protecting plant and animal species from extinction	1	2	3	4	5
Lowering government regulation on greenhouse gas emissions	1	2	3	4	5
Creating more public transportation	1	2	3	4	5
Encouraging the use of fertilizers to improve agricultural production	1	2	3	4	5
Creating more protected coastal areas	1	2	3	4	5
Taxing gasoline	1	2	3	4	5
Managing urban air pollution (e.g., smog)	1	2	3	4	5
Creating more nuclear power plants	1	2	3	4	5

Please circle whether you agree or disagree with the following statements:

1) I am certain that global warming (i.e., climate change) is actually occurring.

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

2) Human activities are a significant cause of global warming.

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

Please answer the following questions in about 3 sentences: (If unsure, please guess or write "I don't know.")

3) Regardless of whether *you* believe that global warming is occurring, what do scientists (who think that global warming is occurring) believe <u>causes</u> global warming?

4) How is global warming supposed to work (according to scientists who think that global warming is occurring)? That is, what is the basic physical, chemical, or biological <u>mechanism</u> of global warming?

5) What can be done to slow global warming, according to those who believe that it is occurring?

6) How are humans, if at all, believed to contribute to global warming?

7) What distinguishes a greenhouse gas from other types of gases in our atmosphere?

6) What is an example of a greenhouse gas? _____

Please rate whether the following actions cause global warming:	Not a cause	Minor cause	Major cause
Emissions from industry or business	1	2	3
Use of chemical pesticides	1	2	3
Combustion of oil	1	2	3
Using aerosol spray cans	1	2	3
Using residential heating or cooling	1	2	3
Use of chemical fertilizers	1	2	3
Combustion of coal	1	2	3
Deforestation	1	2	3
Emissions from livestock	1	2	3
The generation of power in nuclear power plants	1	2	3
Use of air transportation	1	2	3
Depletion of the ozone layer in the upper atmosphere	1	2	3
Driving gasoline-powered cars	1	2	3

Please rate your opinions about the following hypothetical scenarios:	Definitely vote against	Probably vote against	Undecided	Probably vote for	Definitely vote for
Would you vote for a policy that *dramatically* reduced greenhouse gas (GHG) emissions AND increased the income tax rate for all Americans by **1%**?	1	2	3	4	5
Would you vote for a policy that *dramatically* reduced GHG emissions AND doubled the price of gas?	1	2	3	4	5
Would you vote for a policy that *dramatically* reduced GHG emissions AND caused the U.S. to decline in relative economic power among the world's countries?	1	2	3	4	5
Would you vote for a policy that *dramatically* reduced GHG emissions AND caused *sales taxes* in California to increase across the board by **1%**?	1	2	3	4	5

Please consider whether you agree or disagree with the following statements:	Strongly disagree	Mildly disagree	Neither agree nor disagree	Mildly agree	Strongly agree
I am satisfied with the federal government's current environmental policy efforts.	1	2	3	4	5
I am satisfied with San Diego's current environmental policy efforts.	1	2	3	4	5
I trust the federal government.	1	2	3	4	5
I trust San Diego's government.	1	2	3	4	5

Please consider whether you agree or disagree with the following statements:

1) Evolution accurately explains how plants, animals, and humans came to be as they are.

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

2) Human activities are largely responsible for the global warming that is going on now.

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

3) The United States is one of the very best countries on our planet (e.g., "in the top three").

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

4) There exists a supernatural being/deity (e.g., God) or set of beings/deities (gods).

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

5) After death, a person experiences some sort of afterlife (e.g., heaven/hell, nirvana, enlightenment, etc.).

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

6) Biblical creation accurately explains how plants, animals, and humans came to be as they are.

1	2	3	4	5
Strongly Disagree	Mildly Disagree	Neither Agree Nor Disagree	Mildly Agree	Strongly Agree

Please specify your political party affiliation:

1. None
2. Democrat
3. Green
4. Independent
5. Libertarian
6. Republican
7. Other (please specify): _____
8. Decline to state

Please specify your highest educational level:

1. No high school diploma
2. High school diploma
3. Some college, no degree
4. Associate's Degree
5. Bachelor's Degree
6. Master's Degree
7. Professional Degree
8. Doctorate

Please specify your gender: **M** or **F**   **Please specify the zip code in which you live**: _____
Are you an American citizen?   Yes or **No**
If not an American citizen, how many years have you resided in the United States? _____

Please specify your age in years: _____
Do you have children or are planning to have children (please circle response)? (Yes / No / Undecided)

What is your main religious faith, if you had to pick one?

1. Atheist
2. Agnostic
3. Buddhist
4. Christian
5. Hindu
6. Jewish
7. Muslim
8. Spiritual but not religious
9. Other (please specify): _____
10. Decline to state