

Appendix B: Topline

**PEW RESEARCH CENTER
GENERAL PUBLIC SCIENCE SURVEY
TOPLINE
AUG. 15-25, 2014
N=2,002**

NOTE: ALL NUMBERS ARE PERCENTAGES. ANY PERCENTAGES GREATER THAN ZERO BUT LESS THAN 0.5% ARE REPLACED BY AN ASTERISK (*). COLUMNS/ROWS MAY NOT TOTAL 100% DUE TO ROUNDING.

ASK ALL:

Q.1 All in all, are you satisfied or dissatisfied with the way things are going in this country today?

Aug 15-25,
2014⁵⁶

26	Satisfied
70	Dissatisfied
4	Don't know/Refused (VOL.)

ASK ALL:

Q.2 We'd like you to compare the United States to other industrialized countries in a few different areas. (First,) what about... **[INSERT ITEM; READ AND RANDOMIZE]? [READ FOR FIRST ITEM, THEN AS NECESSARY: Do you think the U.S. is the BEST IN THE WORLD, above average, average or below average in [ITEM] compared to other industrialized countries?]**

		Best in the world	Above average	Average	Below average	(VOL.) DK/Ref
a.	Its scientific achievements					
	Aug 15-25, 2014	15	39	34	9	3
	Apr 28-May 12, 2009	17	47	26	5	4
	TREND FOR COMPARISON:					
	<i>AAAS scientists survey:</i>					
	Sept 11-Oct 13, 2014 ⁵⁷	45	47	6	1	*
	May 1-June 14, 2009	49	45	5	1	*
b.	Its military					
	Aug 15-25, 2014	39	37	15	5	3
	Apr 28-May 12, 2009	42	39	13	3	3
c.	Its economy					
	Aug 15-25, 2014	7	26	36	29	2
	Apr 28-May 12, 2009	12	22	33	31	3

⁵⁶ Trends not shown. See [Pew Research](http://www.pewresearch.org) for trends from 1988 to present.

⁵⁷ Survey of AAAS members conducted online. The share giving no answer to each question is listed under the "DK/Ref. (VOL.)" column. The question stem for the AAAS survey was "Compared with other industrialized countries, how would you rate the United States with regard to its overall scientific achievements?" RESPONSE OPTIONS: Best in the world; Above average; Average; Below average."

Q.2 CONTINUED...

		<u>Best in the world</u>	<u>Above average</u>	<u>Average</u>	<u>Below average</u>	(VOL.) DK/Ref
NO ITEM D						
e.	Science, technology, engineering and math education for grades K to 12 Aug 15-25, 2014	7	22	39	29	3
	TREND FOR COMPARISON: <i>AAAS scientists survey:</i> Sept 11-Oct 13, 2014 ⁵⁸	1	15	38	46	*
f.	Its political system Aug 15-25, 2014 Apr 28-May 12, 2009	12 19	22 31	32 29	31 16	3 5
FORM 1 ONLY: [N=1,1001]						
gF1.	Medical treatment Aug 15-25, 2014	17	34	29	20	1
	TREND FOR COMPARISON: <i>AAAS scientists survey:</i> Sept 11-Oct 13, 2014 ⁵⁹	25	39	22	13	*
FORM 2 ONLY: [N=1,001]						
hF2.	Its health care Aug 15-25, 2014 Apr 28-May 12, 2009	9 15	16 23	32 32	39 27	3 2

ASK ALL:

Now I'd like to ask you some questions about science.

Q.3 How much do you ENJOY keeping up with news about science – a lot, some, not much, or not at all?

<u>Aug 15-25, 2014</u>		<u>Apr 28-May 12, 2009</u>	
37	A lot	35	
35	Some	41	
18	Not much	16	
9	Not at all	8	
1	Don't know/Refused (VOL.)	1	

⁵⁸ AAAS scientists question stem was: "Compared to other industrialized countries, how would you rate the United States in the following area... science, technology, engineering and math education for grades K to 12?"

⁵⁹ AAAS scientists question stem: "Compared to other industrialized countries, how would you rate the United States in the following area...medical treatment?"

ASK ALL:

Q.4 Overall, has science made life easier or more difficult for most people?

Aug 15-25, <u>2014</u>		Apr 28-May 12, <u>2009</u>	
79	Easier	83	
15	More difficult	10	
1	Not had much of an effect (VOL.)	1	
4	Don't know/Refused (VOL.)	6	

ASK ALL:

Q.5 Has science had a mostly positive or mostly negative effect on the quality of **[INSERT ITEM; RANDOMIZE]** in the U.S.? What about **[NEXT ITEM]**? **[IF NECESSARY: Has science had a mostly positive or mostly negative effect on the quality of [ITEM] in the U.S.?)**

				(VOL.)	(VOL.)
		<u>Mostly positive</u>	<u>Mostly negative</u>	<u>Not had much of an effect</u>	<u>DK/Ref</u>
a.	Food				
	Aug 15-25, 2014	62	34	1	3
	Apr 28-May 12, 2009 ⁶⁰	66	24	2	8
b.	Health care				
	Aug 15-25, 2014	79	18	1	3
	Apr 28-May 12, 2009	85	10	1	4
c.	The environment				
	Aug 15-25, 2014	62	31	2	5
	Apr 28-May 12, 2009	66	23	2	8

ASK ALL

Q.6 Which of these statements best describes your views, even if neither is exactly right?
[READ; DO NOT RANDOMIZE RESPONSE OPTIONS]

Aug 15-25, <u>2014</u>		
60	(One) Public opinion should play an important role to guide policy decisions about scientific issues,	
	OR	
35	(Two) Public opinion should NOT play an important role to guide policy decisions about scientific issues because these issues are too complex for the average person to understand	
2	Neither/Both (VOL.)	
2	Don't know/Refused (VOL.)	

QUESTIONS 7 THROUGH 9 HELD FOR FUTURE RELEASE
NO QUESTION 10-11

⁶⁰ In 2009, the question stem did not explicitly mention "in the U.S.". The question wording was: "Has science had a mostly positive or mostly negative effect on the quality of [INSERT ITEM; RANDOMIZE]? What about [NEXT ITEM]? [IF NECESSARY: Has science had a mostly positive or mostly negative effect on the quality of [ITEM]?"

ASK ALL:

Q.12 In your opinion, do government investments in **[INSERT ITEM; RANDOMIZE]** usually pay off in the long run, or are they not worth it?

		Yes, pay off <u>in the long run</u>	No, aren't <u>worth it</u>	(VOL.) <u>DK/Ref</u>
a.	Basic scientific research			
	Aug 15-25, 2014	71	24	5
	Apr 28-May 12, 2009	73	18	9
b.	Engineering and technology			
	Aug 15-25, 2014	72	22	6
	Apr 28-May 12, 2009	74	17	9

ASK ALL:

Q.13 Which of these comes closer to your view? **[READ AND RANDOMIZE RESPONSE OPTIONS]**

Aug 15-25, <u>2014</u>		Apr 28-May 12, <u>2009</u>
61	Government investment in research is ESSENTIAL for scientific progress [OR]	60
34	Private investment will ensure that enough scientific progress is made, even without government investment	29
5	Don't know/Refused (VOL.)	11

NO QUESTION 14-15

ASK ALL:

Now a few questions about some issues...

[RANDOMIZE QUESTIONS 16-18 IN BLOCKS WITH QUESTIONS Q20F1 to Q23 IN BLOCKS]**ASK ALL:**

Q.16 Which comes closer to your view? **[READ AND RANDOMIZE]:** Humans and other living things have evolved over time **[OR]** Humans and other living things have existed in their present form since the beginning of time.

IF EVOLVED (Q.16=1), ASK:

Q.17 And do you think that...**[READ OPTIONS AND RANDOMIZE]:** Humans and other living things have evolved due to natural processes such as natural selection **[OR]** A supreme being guided the evolution of living things for the purpose of creating humans and other life in the form it exists today?

	<u>Total</u>	-----Evolved over time-----			Existed in	
		<u>Due to natural processes</u>	<u>Supreme being guided evolution</u>	(VOL.) <u>DK/Ref</u>	<u>present form since beginning</u>	(VOL.) <u>DK/Ref</u>
Aug 15-25, 2014	65	35	24	5	31	4
Feb 27-Mar 16, 2014	61	34	23	4	34	5
Mar 21-Apr 8, 2013	60	32	24	4	33	7
Apr 28-May 12, 2009 ⁶¹	61	32	22	7	31	8

TRENDS FOR COMPARISON:

AAAS *scientists survey*

Sept 11-Oct 13, 2014 ⁶²	98	90	8	1	2	*
May 1-June 14, 2009	97	87	8	2	2	1

[RANDOMIZE QUESTIONS 16-18 IN BLOCKS WITH QUESTIONS Q20F1 to Q23 IN BLOCKS]**ASK ALL:**

Q.18 From what you've heard or read, do scientists generally agree that humans evolved over time, or do they not generally agree about this?

		TRENDS FOR COMPARISON:		
		Apr 28- May 12, 2009	July 2006 ⁶³	July 2005
Aug 15-25, 2014	66	60	62	54
	Yes, scientists generally agree that humans evolved over time			
	29	28	28	33
	No, scientists do not generally agree that humans evolved over time			
	6	11	10	13
	Don't know/Refused (VOL.)			

NO QUESTION 19

⁶¹ Similar questions on beliefs about evolution were asked in Pew Research surveys in July 2006 and July 2005. Beliefs about evolution were preceded by a question about whether or not respondents believed in God. That survey context may influence responses to questions about evolution. For details see topline in "[Many Americans Uneasy with Mix of Religion and Politics](#)", August 24, 2006.

⁶² The nested Q17 responses do not add to the net of 98% on Q16 due to rounding.

⁶³ Question wording for July 2006 and earlier asked "From what you've heard or read, is there general agreement among scientists that humans evolved over time, or not?"

**[RANDOMIZE QUESTIONS 16-18 IN BLOCKS WITH QUESTIONS Q20F1 to Q23 IN BLOCKS]
ASK FORM 1 ONLY: [N=1,001]**

Q.20F1 Which of these three statements about the Earth's temperature comes closest to your view?

[READ AND RANDOMIZE FIRST TWO OPTIONS; KEEP THIRD OPTION LAST]:

Aug 15-25, 2014		Apr 28-May 12, 2009 ⁶⁴
50	The Earth is getting warmer mostly because of human activity such as burning fossil fuels [OR]	49
23	The Earth is getting warmer mostly because of natural patterns in the Earth's environment	36
25	There is no solid evidence that the Earth is getting warmer	11
2	Don't know/Refused (VOL.)	4

TRENDS FOR COMPARISON:

	Mostly b/c of human activity such as burning fossil fuels	Mostly b/c of natural patterns in Earth's environment	No solid evidence Earth getting warmer	No answer
AAAS <i>scientists survey</i> ⁶⁵				
Sept 11-Oct 13, 2014	87	9	3	1
May 1-June 14, 2009	84	10	4	2

⁶⁴ Response options for the 2009 survey were, "The Earth is getting warmer mostly because of natural changes in the atmosphere; the Earth is getting warmer mostly because of human activity such as burning fossil fuels; the Earth is not getting warmer."

⁶⁵ Question wording for 2009 and 2014 scientists survey: "From what you've read and heard, do you think ... [RANDOMIZE RESPONSE OPTIONS 1 & 2]." One of the response options in 2009 was worded differently. It read "the Earth is getting warmer mostly because of natural changes in the atmosphere."

**[RANDOMIZE QUESTIONS 16-18 IN BLOCKS WITH QUESTIONS Q20F1 to Q23 IN BLOCKS]
ASK FORM 2 ONLY: [N=1,001]**

Q.21AF2 From what you've read and heard, is there solid evidence that the average temperature on Earth has been getting warmer over the past few decades, or not?

ASK IF EARTH IS GETTING WARMER (Q.21AF2=1):

Q.21BF2 Do you believe that the Earth is getting warmer **[READ AND RANDOMIZE: mostly because of human activity such as burning fossil fuels/mostly because of natural patterns in the Earth's environment]**?

	Total	-----Yes, solid evidence-----				(VOL.)	
		<i>Mostly b/c of human activity such as burning fossil fuels</i>	<i>Mostly b/c of natural patterns in Earth's environment</i>	(VOL.)	No	Mixed/some evidence	(VOL.)
Aug 15-25, 2014 ⁶⁶	72	46	22	3	25	1	2
Feb 27-Mar 16, 2014	61	40	18	3	35	1	3
Oct 9-13, 2013	67	44	18	4	26	2	5
Mar 13-17, 2013	69	42	23	4	27	1	4
Oct 4-7, 2012	67	42	19	6	26	1	6
Nov 9-14, 2011	63	38	18	6	28	1	8
Feb 22-Mar 1, 2011	58	36	18	5	34	2	5
Oct 13-18, 2010	59	34	18	6	32	1	8
Sep 30-Oct 4, 2009	57	36	16	6	33	2	8
April, 2008	71	47	18	6	21	3	5
January, 2007	77	47	20	10	16	1	6
August, 2006	77	47	20	10	17	1	5
July, 2006	79	50	23	6	17	1	3
June, 2006	70	41	21	8	20	1	9

**[RANDOMIZE QUESTIONS 16-18 IN BLOCKS WITH QUESTIONS Q20F1 to Q23 IN BLOCKS]
ASK FORM 2 ONLY: [N=1,001]**

Q.21AF2 From what you've read and heard, is there solid evidence that the average temperature on Earth has been getting warmer over the past few decades, or not?

ASK IF EARTH IS NOT GETTING WARMER (Q.21AF2=2):

Q.21CF2 Do you think that we just don't know enough yet about whether the Earth is getting warmer or do you think it's just not happening?

Aug 15-25, 2014		Feb 27-Mar 16 2014	Oct 9-13 2013 ⁶⁷
25	NET No solid evidence (Q.21AF2)	35	26
11	<i>Just don't know enough yet</i>	17	12
13	<i>Just not happening</i>	17	13
1	<i>Don't know/Refused (VOL.)</i>	1	1
75	Solid evidence/Some evidence (VOL.) /Don't know (VOL.)(Q.21AF2)	65	74

NO QUESTION 22

⁶⁶ These questions have since been asked in a May 7-June 7, 2015 survey with 5,122 respondents; the results are similar. See Pew Research Center's June report "[Catholics Divided Over Global Warming: Partisan Differences Mirror Those Among General Public.](#)"

⁶⁷ Prior to October 2013, follow-up question was not asked of those who said there was no solid evidence.

[RANDOMIZE QUESTIONS 16-18 IN BLOCKS WITH QUESTIONS Q20F1 to Q23 IN BLOCKS]**ASK ALL:**

Q.23 From what you've heard or read, do scientists generally agree that the Earth is getting warmer because of human activity, or do they not generally agree about this?

Aug 15-25, 2014		Oct 9-13 2013	Oct 4-7 2012	Oct- 13-18 2010	Apr 28- May 12 2009
57	Yes, scientists generally agree that the Earth is getting warmer because of human activity	54	45	44	56
37	No, scientists do not generally agree that the Earth is getting warmer because of human activity	37	43	44	35
6	Don't know/Refused (VOL.)	10	12	12	9

ASK ALL:

On another topic.

Q.24 All in all, do you favor or oppose **[INSERT ITEM; RANDOMIZE]?** Do you favor or oppose **[NEXT ITEM]?**

		Favor	Oppose	(VOL.) DK/Ref
a.	The use of animals in scientific research			
	Aug 15-25, 2014	47	50	3
	Apr 28-May 12, 2009	52	43	6
TRENDS FOR COMPARISON:				
	AAAS <i>scientists survey</i>			
	Sept 11-Oct 13, 2014	89	9	2
	May 1-June 14, 2009	93	5	2
b.	Building more nuclear power plants to generate electricity ⁶⁸			
	Aug 15-25, 2014	45	51	4
	Apr 28-May 12, 2009	51	42	7
TRENDS FOR COMPARISON:				
	AAAS <i>scientists survey</i>			
	Sept 11-Oct 13, 2014	65	33	2
	May 1-June 14, 2009	70	27	3
c.	The increased use of fracking, a drilling method that uses high-pressure water and chemicals to extract oil and natural gas from underground rock formations ⁶⁹			
	Aug 15-25, 2014	39	51	10
	Sep 4-8, 2013	44	49	7
	Mar 13-17, 2013	48	38	14
TREND FOR COMPARISON:				
	AAAS <i>scientists survey</i>			
	Sept 11-Oct 13, 2014	31	66	3

⁶⁸ Other Pew Research surveys have asked for views about "government policies to address America's energy supply" including opinions about "the government promoting the use of nuclear power." See "[Continued Support for Keystone XL Pipeline](#)," Sep. 26, 2013.

⁶⁹ A Pew Research survey conducted Nov. 6-9, 2014 repeated this question in a three-question set. See "[Little Enthusiasm, Familiar Divisions After the GOP's Midterm Victory](#)," Q.69 on the topline.

Q.24 CONTINUED...

		<u>Favor</u>	<u>Oppose</u>	<u>(VOL.) DK/Ref</u>
d.	The increased use of genetically engineered plants to create a liquid fuel replacement for gasoline Aug 15-25, 2014	68	26	6
	TREND FOR COMPARISON: AAAS <i>scientists survey</i> Sept 11-Oct 13, 2014	78	21	2
e.	Allowing more offshore oil and gas drilling in U.S. waters ⁷⁰ Aug 15-25, 2014	52	44	4
	TREND FOR COMPARISON: AAAS <i>scientists survey</i> Sept 11-Oct 13, 2014	32	66	2
f.	Allowing more people access to experimental drugs before clinical trials have shown the drugs to be safe and effective for that disease or condition Aug 15-25, 2014	54	43	3

ASK ALL:

Q.25 Thinking about childhood diseases, such as measles, mumps, rubella and polio... **[READ AND RANDOMIZE RESPONSE OPTIONS]**

Aug 15-25, <u>2014</u>		Apr 28-May 12, <u>2009</u> ⁷¹	
68	Should all children be required to be vaccinated [OR]	69	
30	Should parents be able to decide NOT to vaccinate their children	28	
1	Don't know/Refused (VOL.)	3	
TRENDS FOR COMPARISON:			
	All children should be required to be <u>vaccinated</u>	Parents should be able to decide NOT to vaccinate <u>their children</u>	<u>No answer</u>
AAAS <i>scientists survey</i> ⁷² Sept 11-Oct 13, 2014	86	13	1
May 1-June 14, 2009	82	17	1

NO QUESTION 26

⁷⁰ Other Pew Research surveys have asked for views about "government policies to address America's energy supply" including opinions about "the government allowing more offshore oil and gas drilling in U.S. waters." See "[Continued Support for Keystone XL Pipeline](#)," Sep. 26, 2013.

⁷¹ Answer choices for 2009 surveys were, "The Earth is getting warmer mostly because of natural changes in the atmosphere; The Earth is getting warmer mostly because of human activity such as burning fossil fuels; The Earth is not getting warmer."

⁷² AAAS scientists question wording was "Thinking about childhood diseases, such as measles, mumps, rubella and polio, do you think...[RANDOMIZE RESPONSE OPTIONS 1 & 2: Parents should be able to decide NOT to vaccinate their children/All children should be required to be vaccinated]"

ASK ALL:

Q.27 Thinking about the use of biological engineering to create artificial organs for humans needing a transplant operation, would you say this is making appropriate use of medical advances OR is it taking medical advances too far?

Aug 15-25,
2014

74	Appropriate use of medical advances
23	Taking medical advances too far
3	Don't know/Refused (VOL.)

ASK ALL:

Q.28 Which of these statements comes closest to your point of view, even if neither is exactly right?

[READ IN ORDER]

Aug 15-25,
2014

Mar 21-Apr 8, 2013 Apr 6-May 6, 1999⁷³

38	(One) The growing world population will NOT be a major problem because we will find a way to stretch our natural resources [OR]	37	42
59	(Two) The growing population WILL be a major problem because there won't be enough food and resources to go around	61	56
--	Neither/Both equally (VOL.)	1	1
3	Don't know/Refused (VOL.)	2	1

TREND FOR COMPARISON:

	The growing world population will NOT be a major problem...	The growing world population WILL be a major problem...	No answer*
AAAS <i>scientists survey</i> Sept 11-Oct 13, 2014	17	82	

ASK ALL:

On another topic.

Q.29 Do you think the SPACE STATION has been a good investment for this country, or don't you think so?⁷⁴

Aug 15-25,
2014

64	Good investment
29	Not a good investment
7	Don't know/Refused (VOL.)

TREND FOR COMPARISON:

	Good investment	Not a good investment	No answer
AAAS <i>scientists survey</i> Sept 11-Oct 13, 2014	68	31	2

⁷³ In 1999 survey, response options one and two were randomized.

⁷⁴ For other Pew Research surveys with questions related to the U.S. space program see "[Majority Sees U.S. Leadership in Space as Essential](#)," July 5, 2011.

ASK ALL:

Q.30 The cost of sending human astronauts to space is considerably greater than the cost of using robotic machines for space exploration. As you think about the future of the U.S. space program, do you think it is essential or not essential to include the use of human astronauts in space?

Aug 15-25,
2014

59	Essential
39	Not essential
3	Don't know/Refused (VOL.)

TREND FOR COMPARISON:

AAAS <i>scientists survey</i>	<u>Essential</u>	<u>Not essential</u>	<u>No answer</u>
Sept 11-Oct 13, 2014	47	52	1

NO QUESTION 31**ASK ALL:**

Q.32 From what you've heard or read, would you say that **[READ AND RANDOMIZE 1-2]**

Aug 15-25,
2014

42	Scientists generally believe that the universe was created in a single, violent event, often called "the Big Bang"
52	Scientists are divided in their views about how the universe was created
2	Both/Neither (VOL.)
5	Don't know/Refused (VOL.)

[RANDOMIZE ORDER OF Q33 AND Q34]**ASK ALL:**

Q.33 Would you say that changing a baby's genetic characteristics to make the baby more intelligent is making appropriate use of medical advances OR is it taking medical advances too far?⁷⁵

Aug 15-25,
2014

15	Appropriate use of medical advances
83	Taking medical advances too far
2	Don't know/Refused (VOL.)

⁷⁵ A similar question was asked on the Virginia Commonwealth University Life Sciences Survey September 3-26, 2003. Question wording was, "Would you say that changing a baby's genetic characteristics for cosmetic purposes such as eye or hair color is making appropriate use of medical advances or is it taking medical advances too far?" Fully 94% of adults said this was taking medical advances too far, 4% said it was an appropriate use of medical advances, 2% volunteered don't know or gave no response. For details see "[Public Values Science But Concerned About Biotechnology](#)"

[RANDOMIZE ORDER OF Q33 AND Q34]**ASK ALL:**

Q.34 Would you say that changing a baby's genetic characteristics to reduce the risk of serious diseases is making appropriate use of medical advances OR is it taking medical advances too far?

		<i>VCU Life Sciences Survey</i>	
Aug 15-25, <u>2014</u>		Sept 3-26, <u>2003</u>	
46	Appropriate use of medical advances	41	
50	Taking medical advances too far	54	
4	Don't know/Refused (VOL.)	6	

ASK ALL:

On a different topic.

Q.35 Do you think it is generally safe or unsafe to eat foods grown with pesticides?

Aug 15-25, <u>2014</u>	
28	Generally safe
69	Generally unsafe
3	Don't know/Refused (VOL.)

TREND FOR COMPARISON:

<i>AAAS scientists survey</i> Sept 11-Oct 13, 2014	<u>Generally safe</u>	<u>Generally unsafe</u>	<u>No answer</u>
	68	31	1

NO QUESTION 36

ASK ALL: Scientists can change the genes in some food crops and farm animals to make them grow faster or bigger and be more resistant to bugs, weeds, and disease.⁷⁶

ASK ALL:

Q.37 When you are food shopping, how often, if ever, do you LOOK TO SEE if the products are genetically modified? **[READ]**

Aug 15-25, <u>2014</u>	
25	Always
25	Sometimes
17	Not too often
31	Never
1	Someone else in HH does the food shopping (VOL.)
1	Don't know/Refused (VOL.)

⁷⁶ Introduction to question set from ABC News, July 2003

ASK ALL:

Q.38 Do you think it is generally safe or unsafe to eat genetically modified foods?

Aug 15-25,
2014

37	Generally safe
57	Generally UNSafe
6	Don't know/Refused (VOL.)

TREND FOR COMPARISON:

<i>AAAS scientists survey</i>	<u>Generally safe</u>	<u>Generally unsafe</u>	<u>No answer</u>
Sept 11-Oct 13, 2014	88	11	1

TRENDS FOR COMPARISON:

ABC News: Scientists can change the genes in some food crops and farm animals to make them grow faster or bigger and be more resistant to bugs, weeds, and disease. Do you think this genetically modified food, also known as bio-engineered food, is or is not safe to eat?

	<i>ABC News</i>	<i>ABC News</i>
	<i>July 2003</i>	<i>July 2001</i>
Safe	46	35
Unsafe	46	52
No opinion (VOL.)	9	13

ASK ALL:

Q.39 From what you've heard or read, would you say scientists have a clear understanding of the health effects of genetically modified crops OR are scientists NOT clear about this?

Aug 15-25,
2014

28	Scientists have a clear understanding
67	Scientists do NOT have a clear understanding
4	Don't know/Refused (VOL.)

Q40 AND 41 HELD FOR FUTURE RELEASE

ASK ALL:

Here's a different kind of question. As far as you know...

[RANDOMIZE KNOSCT14 THROUGH KNOSCT19]**ASK ALL:**

KNOSCT14 Which of these is a major concern about the overuse of antibiotics? **[READ AND RANDOMIZE] [INTERVIEWER NOTE: IF NO ANSWER, PROBE ONCE: We're just looking for your best guess on this.]**

Aug 15-25, <u>2014</u>		Mar 7-10, <u>2013</u> ⁷⁷
74	It can lead to antibiotic-resistant bacteria (<i>Correct</i>)	77
26	NET Incorrect/No answer	23
8	<i>Antibiotics are very expensive</i>	6
15	<i>People will become addicted to antibiotics</i>	10
2	<i>Don't know/Refused (VOL.)</i>	7

[RANDOMIZE KNOSCT14 THROUGH KNOSCT19]**ASK ALL:**

KNOSCT15 Is the following statement true or false? Lasers work by focusing sound waves. [IF NECESSARY: Is this statement true or false?] **[INTERVIEWER NOTE: IF NO ANSWER, PROBE ONCE: We're just looking for your best guess on this.]**

	(<i>Correct</i>) <u>False</u>	NET incorrect/ no answer	<i>True</i>	<u>DK/Ref</u>
Aug 15-25, 2014	65	35	27	9
Mar 7-10, 2013	48	52	19	34
May 19-June 6, 2010	60	40	21	19
June 18-21, 2009	47	53	21	31

TREND FOR COMPARISON:

General Social Survey, 2012	45	55	24	31
General Social Survey, 2010	48	52	19	33
General Social Survey, 2008	48	52	24	28
General Social Survey, 2006	45	55	17	38

[RANDOMIZE KNOSCT14 THROUGH KNOSCT19]**ASK ALL:**

KNOSCT16 Does nanotechnology deal with things that are extremely **[READ AND RANDOMIZE] [INTERVIEWER NOTE: IF NO ANSWER, PROBE ONCE: We're just looking for your best guess on this.]**

Aug 15-25, <u>2014</u>		Mar 7-10, <u>2013</u>
64	Small (<i>Correct</i>)	65
36	NET Incorrect/No answer	35
8	<i>Large</i>	3
6	<i>Cold</i>	2
13	<i>Hot</i>	4
1	<i>Don't know/Refused (VOL.)</i>	26

⁷⁷ 2013 Pew Research Center/Smithsonian Magazine survey. Introduction to series of questions was "Here are some questions about things you might have learned in school or seen in the news. For each statement that I read, please tell me if it is true or false. If you don't know, just tell me so, and we will skip to the next question..." Survey administration did not include probe and was conducted on an omnibus survey.

[RANDOMIZE KNOSCT14 THROUGH KNOSCT19]**ASK ALL:**

KNOSCT17 Which is an example of a chemical reaction? **[READ AND RANDOMIZE]**
[INTERVIEWER NOTE: IF NO ANSWER, PROBE ONCE: We're just looking for your best guess on this.]

Aug 15-25, <u>2014</u>		Mar 7-10, <u>2013</u>
63	Nails rusting (<i>Correct</i>)	66
37	NET Incorrect/No answer	34
15	<i>Water boiling</i>	12
17	<i>Sugar dissolving</i>	12
5	<i>Don't know/Refused (VOL.)</i>	10

[RANDOMIZE KNOSCT14 THROUGH KNOSCT19]**ASK ALL:**

KNOSCT18 What is the main function of red blood cells? Is it... **[READ AND RANDOMIZE]**
[INTERVIEWER NOTE: IF NO ANSWER, PROBE ONCE: We're just looking for your best guess on this.]

Aug 15-25, <u>2014</u>		Mar 7-10, <u>2013</u>
76	To carry oxygen to all parts of the body (<i>Correct</i>)	78
24	NET Incorrect/No answer	22
12	<i>To fight disease in the body</i>	9
8	<i>To help the blood to clot</i>	6
4	<i>Don't know/Refused (VOL.)</i>	7

[RANDOMIZE KNOSCT14 THROUGH KNOSCT19]**ASK ALL:**

KNOSCT19 What gas do most scientists believe causes temperatures in the atmosphere to rise? Is it
[READ AND RANDOMIZE] [INTERVIEWER NOTE: IF NO ANSWER, PROBE ONCE: We're just looking for your best guess on this.]

Aug 15-25, <u>2014</u>		Mar 7-10 <u>2013</u>	June 18-21 <u>2009</u>	Apr 28-May 12 <u>2009</u>
71	Carbon dioxide (<i>Correct</i>)	58	65	66
29	NET Incorrect/No answer	42	35	34
9	<i>Hydrogen</i>	10	7	7
5	<i>Helium</i>	8	4	4
7	<i>Radon</i>	7	5	6
7	<i>Don't know/Refused (VOL.)</i>	16	20	17

TOTAL NUMBER CORRECT, KNOSCT14 THROUGH KNOSCT19

Aug 15-25, <u>2014</u>		Mar 7-10, <u>2013</u> ⁷⁸
27	6 of 6	23
20	5 of 6	20
20	4 of 6	20
14	3 of 6	15
10	2 of 6	10
7	1 of 6	8
1	0 of 6	4

SELECTED BACKGROUND QUESTIONS⁷⁹

ASK IF EDUCATION IS FOUR YEAR COLLEGE OR UNIVERSITY, SOME POSTGRADUATE OR PROFESSIONAL SCHOOLING, OR POSTGRADUATE OR PROFESSIONAL DEGREE, including master's, doctorate, medical or law degree

SCIDEG Is **[INSERT IF EDUC=6,7: your degree]** **[INSERT IF EDUC=8: one or more of your degrees]** in a scientific field, or not?

AMONG THOSE WITH A COLLEGE DEGREE OR MORE [N=813]

Aug 15-25, <u>2014</u>	
40	Yes
59	No
*	Can't answer, listed area of study [SPECIFY] (VOL.)
0	Don't know/Refused (VOL.)

ASK ALL:

IDEO In general, would you describe your political views as... **[READ]** very conservative, conservative, moderate, liberal or very liberal?

Aug 15-25, <u>2014</u> ⁸⁰	
35	Conservative or very conservative
36	Moderate
24	Liberal or very liberal
5	Don't know/Refused

COMBINATION OF PARTY IDENTIFICATION AND IDEOLOGY

14	Conservative Republican
8	Moderate or liberal Republican
39	Independent
17	Moderate or conservative Democrat
12	Liberal Democrat
10	Other/No preference/Don't know/Refused

⁷⁸2013 Pew Research Center/Smithsonian Magazine survey. Total number correct based on questions asked in both surveys. Note that introduction to the series of questions differed across the two surveys. The 2013 survey encouraged respondents to give a "don't know" response and did not probe for respondents best guess. Alpha reliability coefficient for the six item scale of knowledge about science based is 0.62 in 2014 and 0.68 in 2013.

⁷⁹ See questionnaire for question wording on demographic background questions.

⁸⁰ Trends not shown.

ASK ALL:

PARTY In politics TODAY, do you consider yourself a Republican, Democrat, or independent?

ASK IF INDEP/NO PREF/OTHER/DK/REF (PARTY=3,4,5,9):

PARTYLN As of today do you lean more to the Republican Party or more to the Democratic Party?

	<u>Republican</u>	<u>Democrat</u>	<u>Independent</u>	(VOL.) No preference	(VOL.) Other party	(VOL.) DK/Ref	Lean Rep	Lean Dem
Aug 15-25, 2014	22	30	39	5	*	3	15	15
Aug 20-24, 2014	24	31	37	4	1	4	15	16
Jul 8-14, 2014	25	34	37	2	1	1	16	15
Apr 23-27, 2014	24	30	41	2	1	2	18	17
Jan 23-Mar 16, 2014	22	31	41	3	1	2	17	17
Feb 14-23, 2014	22	32	39	4	1	2	14	17
Jan 15-19, 2014	21	31	41	3	1	2	18	16
Dec 3-8, 2013	24	34	37	3	*	2	17	15
Oct 30-Nov 6, 2013	24	32	38	4	*	2	16	14
Oct 9-13, 2013	25	32	37	3	1	3	16	18
Sep 4-8, 2013	26	32	38	3	1	1	17	15
Jul 17-21, 2013	19	29	46	3	*	2	19	18
Yearly Totals								
2013	23.9	32.1	38.3	2.9	.5	2.2	16.0	16.0
2012	24.7	32.6	36.4	3.1	.5	2.7	14.4	16.1
2011	24.3	32.3	37.4	3.1	.4	2.5	15.7	15.6
2010	25.2	32.7	35.2	3.6	.4	2.8	14.5	14.1
2009	23.9	34.4	35.1	3.4	.4	2.8	13.1	15.7
2008	25.7	36.0	31.5	3.6	.3	3.0	10.6	15.2
2007	25.3	32.9	34.1	4.3	.4	2.9	10.9	17.0
2006	27.8	33.1	30.9	4.4	.3	3.4	10.5	15.1
2005	29.3	32.8	30.2	4.5	.3	2.8	10.3	14.9
2004	30.0	33.5	29.5	3.8	.4	3.0	11.7	13.4
2003	30.3	31.5	30.5	4.8	.5	2.5	12.0	12.6
2002	30.4	31.4	29.8	5.0	.7	2.7	12.4	11.6
2001	29.0	33.2	29.5	5.2	.6	2.6	11.9	11.6
2001 Post-Sept 11	30.9	31.8	27.9	5.2	.6	3.6	11.7	9.4
2001 Pre-Sept 11	27.3	34.4	30.9	5.1	.6	1.7	12.1	13.5
2000	28.0	33.4	29.1	5.5	.5	3.6	11.6	11.7
1999	26.6	33.5	33.7	3.9	.5	1.9	13.0	14.5
1998	27.9	33.7	31.1	4.6	.4	2.3	11.6	13.1
1997	28.0	33.4	32.0	4.0	.4	2.3	12.2	14.1
1996	28.9	33.9	31.8	3.0	.4	2.0	12.1	14.9
1995	31.6	30.0	33.7	2.4	.6	1.3	15.1	13.5
1994	30.1	31.5	33.5	1.3	--	3.6	13.7	12.2
1993	27.4	33.6	34.2	4.4	1.5	2.9	11.5	14.9
1992	27.6	33.7	34.7	1.5	0	2.5	12.6	16.5
1991	30.9	31.4	33.2	0	1.4	3.0	14.7	10.8
1990	30.9	33.2	29.3	1.2	1.9	3.4	12.4	11.3
1989	33	33	34	--	--	--	--	--
1987	26	35	39	--	--	--	--	--