

# **Omnibus Poll/Survey Comparisons**

**1998--2003--2008--2013--2018**



# Omnibus Poll/Survey Comparisons 1998--2003--2008--2013--2018

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- Overall, how would you rate the quality of the environment in Alabama?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Very Good/Fairly Good	76%	86%	90%	88%	92%
○ Very Bad/Fairly Bad	23%	12%	9%	10%	8%

- Thinking specifically about the environmental quality of our water, how do you think it compares to 25 years ago?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018*</u>
○ Somewhat Cleaner/Much Cleaner	19%	29%	43%	36%	49%
○ Somewhat Dirtier/Much Dirtier	50%	40%	31%	27%	18%

\* Question modified to be for the respondents' lifetime.

- Now thinking about the quality of our air, how do you think it compares with 25 years ago?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018*</u>
○ Somewhat Cleaner/Much Cleaner	18%	25%	30%	31%	43%
○ Somewhat Dirtier/Much Dirtier	54%	51%	49%	32%	16%

\* Question modified to be for the respondents' lifetime.

- How much do you agree with this statement: Environmental standards protect your health and the environment?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Strongly Agree/Agree	81%	87%	90%	76%	90%
○ Strongly Disagree/Disagree	15%	10%	7%	16%	10%

- How much do you agree with this statement: Environmental laws in effect in Alabama area sufficient to protect public health and the environment?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Strongly Agree/Agree	N/A	57%	61%	56%	59%
○ Strongly Disagree/Disagree	N/A	37%	33%	33%	28%

# Omnibus Poll/Survey Comparisons 1998--2003--2008--2013--2018

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- How much do you agree with this statement: Local zoning laws are needed to address environmental impacts of development not regulated by the state?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Strongly Agree/Agree	75%	71%	74%	68%	73%
○ Strongly Disagree/Disagree	17%	18%	21%	20%	11%

- How much do you agree with this statement: Environmental laws are being enforced in Alabama?

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Strongly Agree/Agree	N/A	39%	49%	43%	56%
○ Strongly Disagree/Disagree	N/A	48%	44%	44%	44%

- Overall, how would you rate the funding of state environmental programs in Alabama? Would you say they are .....

- Significantly under-funded
- Under-funded
- Adequately funded
- Over-funded
- Significantly over-funded
- Don't know

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Over Funded/Significantly Over Funded	N/A	8%	9%	5%	10%
○ Under Funded/Significantly Under Funded	N/A	48%	50%	54%	45%

- When an industry or business is fined for violations of environmental regulations, do you feel the penalty amount is .....

- Too high
- The correct amount
- Too low
- Don't know

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Too High	N/A	11%	10%	9%	8%
○ Too Low	N/A	45%	48%	41%	35%
○ Correct Amount	N/A	27%	23%	26%	26%

# Omnibus Poll/Survey Comparisons 1998--2003--2008--2013--2018

- What should be the major objective when a violation of environmental regulations is discovered at an industry or business?

- Violations quickly corrected
- Industry or business is fined
- Other
- Don't know

	<u>1998</u>	<u>2003</u>	<u>2008</u>	<u>2013</u>	<u>2018</u>
○ Quickly Correct Violation	N/A	87%	78%	62%	81%
○ Assess Penalty/Fine	N/A	7%	8%	22%	15%

- What would you say is the biggest source of air pollution?

○ 1998	Automobiles – 44%	Industry -- 39%
○ 2003	Automobiles – 42%	Industry -- 36%
○ 2008	Automobiles – 55%	Industry -- 36%
○ 2013	Automobiles – 38%	Industry -- 26%
○ 2018	Automobiles – 27%	Industry – 40%

- What would you say is the biggest source of water pollution?

○ 1998	Industry -- 39%	Agriculture -- 39%	Run-off -- 4%
○ 2003	Industry -- 36%	Agriculture -- N/A%	Run-off -- 5%
○ 2008	Industry -- 36%	Agriculture -- 12%	Run-off -- 13%
○ 2013	Industry – 22%	Agriculture – 4%	Run-off -- 14%
○ 2018	Industry – 27%	Agriculture – 7%	Run-off – 11%

- What do you say is the most important environmental problem facing Alabama Today?

○ 1998	Water Pollution -- 37%	Air Pollution -- 16%
○ 2003	Water Pollution -- 28%	Air Pollution -- 12%
○ 2008	Water Pollution -- 22%	Air Pollution -- 17%
○ 2013	Water Pollution -- 23%	Air Pollution -- 15%
○ 2018	Water Pollution – 35%	Air Pollution – 14%

# SURVEY OF OPINIONS OF ALABAMA CITIZENS RELATED TO THE QUALITY OF ALABAMA'S AIR, LAND, AND WATER RESOURCES

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# **SURVEY OF OPINIONS OF ALABAMA CITIZENS RELATED TO THE QUALITY OF ALABAMA’S AIR, LAND, AND WATER RESOURCES, 2019**

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*This project was funded or partially funded by the Alabama Department of Environmental Management.*

# EXECUTIVE SUMMARY

The mission of the Alabama Department of Environmental Management (ADEM) is to assure for all citizens of the state a safe, healthful, and productive environment. Toward that end, ADEM contracted the Institute for Social Science Research at the University of Alabama to conduct a survey to gain insight into the opinions of Alabamians concerning the quality of the water, air, and overall environment in the state. The current study followed from similar data collected in 2014 and assessed opinions regarding current environmental quality, historical changes, and laws regulating environmental practices in Alabama, as well as penalties enforced for violations and the adequacy of funding for environmental concerns. A sample of 615 adult Alabama residents completed the survey online.

Respondents held generally positive views of the environment in Alabama, as over 92% of participants rated the overall environmental quality as “very good” or “fairly good.” On questions specifically addressing water and air quality, 82.1% rated water quality as “fairly” or “very good,” while 90.8% gave air quality these ratings. No respondents rated water or air quality as “very bad,” and only 17.9% rated water quality as “fairly bad,” while 9.3% rated air quality as “fairly bad.” Nearly half of those surveyed (48.9%) rated the water quality as cleaner than in the past, and nearly as many respondents (43.3%) felt the air quality had improved. Fewer residents believed that the quality of these is declining as only 17.5% rated the water quality as poorer now and only 15.5% felt that the quality of the air had declined.

Water pollution was chosen by the largest percentage of people (34.5%) as their top environmental concern, both when naming it in an open-ended question and when selecting from a list of possible concerns. Illegal dumping of litter or waste by individuals was perceived as the biggest source of water pollution by the most people, followed by industrial plants. Industrial plants were also mentioned as the biggest source of air pollution by the most people, followed by motor vehicles.

Regarding laws and regulations governing the impact of people’s behavior on the environment, a majority (73.0%) of Alabama residents surveyed agree or strongly agree that local zoning laws are necessary to address this issue and that these environmental standards protect public health and the environment (89.8%). However, only 58.7% of respondents feel that current laws are sufficient, and only 44.1% feel that these environmental laws are being enforced. Relatedly, about one-third of respondents (35.3%) believe that the penalties paid by businesses and industries for violating environmental regulations are too low, and only a small minority (8.1%) feel that these penalties are too high. At the same time, only 14.6% of survey respondents feel that fining offending industries or businesses is most important when violations occur, while 81.3% feel that correcting the violation is most important.

Finally, nearly half of Alabama residents surveyed believe that environmental programs in the state are under-funded (45.0%), while only 10.3% believe that these programs are over-funded, 22.8% of respondents rated the funding for environmental programs in Alabama as adequate, and the remaining 21.9% said they did not know. These opinions concerning funding reflect the overall feedback provided by Alabama residents responding to ADEM’s request for input regarding the current state of the environment in Alabama and those programs designed to protect it. While the majority of state residents believe Alabama’s environment is in good condition, they also clearly believe that environmental protections are important and that there is room for improvement. Additionally, current efforts toward improvement are perceived as under-enforced and inadequately funded.

# METHODS

Researchers at the Institute for Social Science Research (ISSR) at the University of Alabama employed Qualtrics online survey software to conduct this survey of Alabama residents' opinions of the quality of the environment in the state. The survey was brief (18 questions) with an average completion time of approximately 10 minutes. The sample of participants was recruited by SDR Consulting, a strategic marketing company with access to a large pool of online panel participants available for survey research support nationwide, including in Alabama.

A sample of Alabama residents, balanced for gender, age, race/ethnicity, and geographic region were sent an invitation to complete the survey, along with a link to access it online. A total of 615 participants completed the survey over a period of 10 days in February and March of 2019. The data were then weighted by gender, age, race/ethnicity, and geographic region using U.S. Census data to ensure proportionate representation of Alabama adults within the results. All reported results are based on these weighted data. SPSS (Statistical Package for Social Science) was used to analyze the data and Microsoft Excel was used to produce the tables for this report. Experienced coders at ISSR completed all coding of open-ended responses.

This report includes graphic representation of Alabama residents' opinions concerning the overall quality of the environment in their state, as well as the quality of the water and air in Alabama and the laws, regulations, and funding associated with maintaining these elements of the environment. Finally, a complete copy of the survey, detailed tables of responses by demographic categories, and responses to open-ended questions are included as appendices. Questions about this report should be directed to Sarah Dunlap at ISSR in Tuscaloosa, Alabama.

# RESULTS

## Demographics

Gender	Number	Percent
Female	314	51.1%
Male	296	48.1%
No answer	5	0.8%

Age	Number	Percent
18-34	178	29.0%
35-54	221	36.0%
55 and above	209	34.0%
No answer	6	1.0%

Ethnicity/Race	Number	Percent
White	418	68.0%
Black/African American	160	26.0%
Asian	11	1.8%
Indian(American)/ Alaska native	7	1.1%
Multiracial	11	1.8%
Other	4	0.7%
No answer	3	0.5%

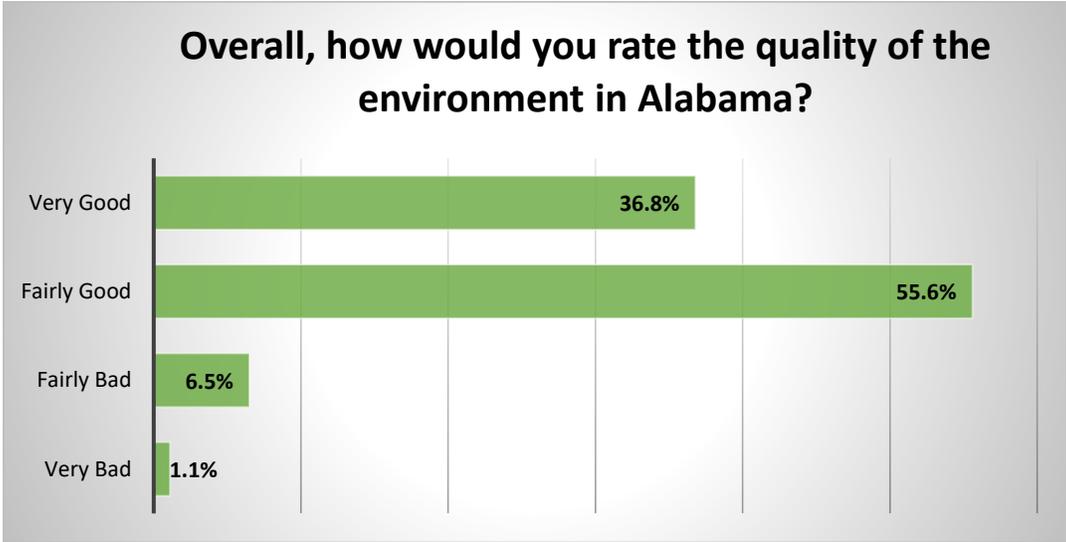
Hispanic	Number	Percent
Yes	16	2.7%
No	593	96.5%
No answer	5	0.9%

Education	Number	Percent
Some grade school	5	0.8%
Some high school	76	12.4%
Graduated from high school/GED	135	22.0%
Career/technical school	31	5.0%
Some college	151	24.6%
Graduated from college	141	22.9%
Graduate/professional school	74	12.0%
No answer	1	0.2%

Income	Number	Percent
\$20,000 or less	156	25.4%
\$20,001 - \$30,000	65	10.6%
\$30,001 - \$50,000	97	15.8%
\$50,001 - \$70,000	107	17.4%
\$70,001 - \$100,000	83	13.5%
\$100,001 - \$150,000	68	11.1%
More than \$150,000	33	5.4%
No answer	6	1.0%

Place	Number	Percent
Urban/Suburban/Medium City	343	55.8%
Small Town/Rural	272	44.2%

# Overall Environmental Quality

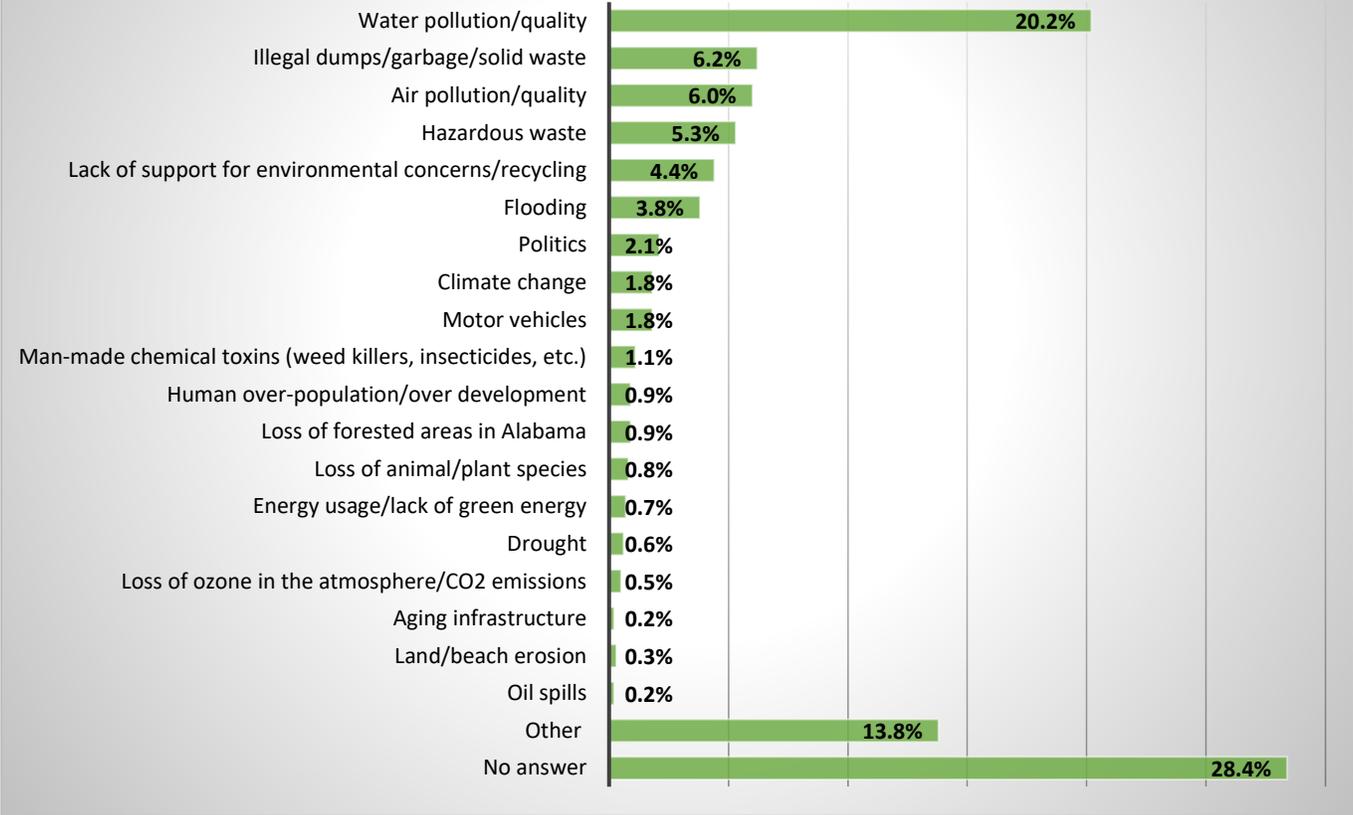


<b>Rating</b>	<b>Number</b>	<b>Percent</b>
Very Good	226	36.8%
Fairly Good	342	55.6%
Fairly Bad	40	6.5%
Very Bad	7	1.1%

# Overall Environmental Quality

## What do you think is the most important environmental problem facing Alabama today?

( Frequency of open-ended responses by category)



\*Other responses are listed in Appendix C, question 2a.

## Overall Environmental Quality

### What do you think is the most important environmental problem facing Alabama today? (Frequency of open-ended responses by category)

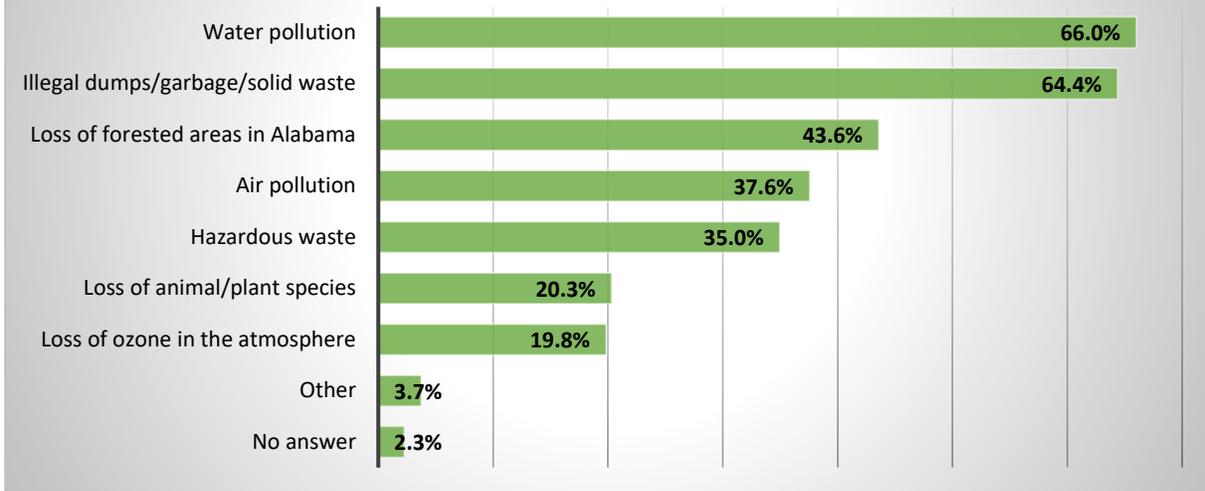
Category	Number	Percent
Water pollution/quality	124	20.2%
Illegal dumps/garbage/solid waste	38	6.2%
Air pollution/quality	37	6.0%
Hazardous waste	33	5.3%
Lack of support for environmental concerns/recycling	27	4.4%
Flooding	23	3.8%
Politics	13	2.1%
Climate change	11	1.8%
Motor vehicles	11	1.8%
Man-made chemical toxins (weed killers, insecticides, etc.)	6	1.1%
Human over-population/over development	6	0.9%
Loss of forested areas in Alabama	5	0.9%
Loss of animal/plant species	5	0.8%
Energy usage/lack of green energy	4	0.7%
Drought	4	0.6%
Loss of ozone in the atmosphere/CO2 emissions	3	0.5%
Aging infrastructure	1	0.2%
Land/beach erosion	2	0.3%
Oil spills	1	0.2%
Other*	85	13.8%
No answer	175	28.4%

\*Other responses are listed in Appendix C, question 2a.

## Overall Environmental Quality

### What do you think is the most important environmental problem facing Alabama today?

(Select up to 3 choices)



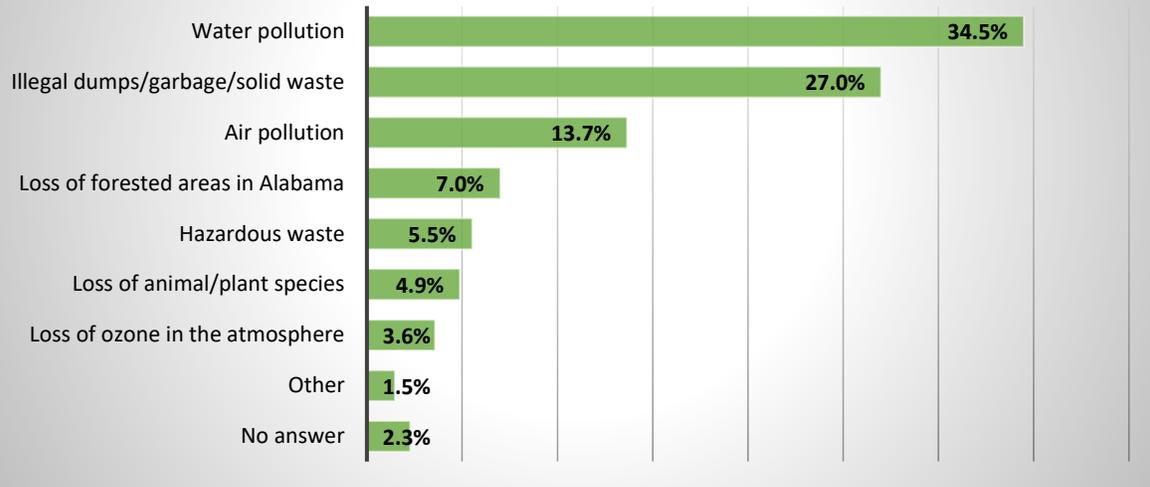
Category	Number	Percent
Water pollution	406	66.0%
Illegal dumps/garbage/solid waste	396	64.4%
Loss of forested areas in Alabama	268	43.6%
Air pollution	231	37.6%
Hazardous waste	215	35.0%
Loss of animal/plant species	125	20.3%
Loss of ozone in the atmosphere	122	19.8%
Other*	23	3.7%
No answer	14	2.3%

\*Other responses are listed in Appendix C, question 2b.

## Overall Environmental Quality

### What do you think is the most important environmental problem facing Alabama today?

(Top choice)

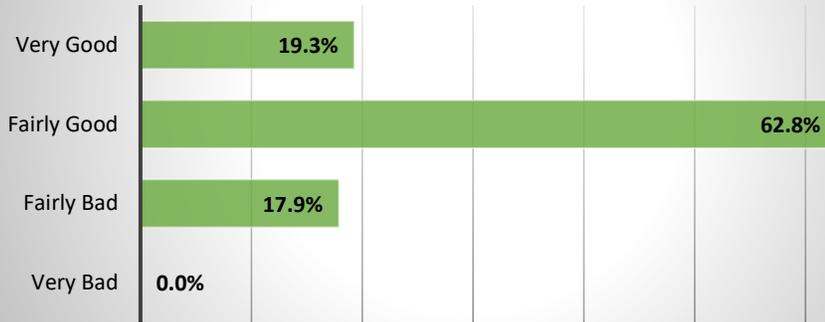


Problem	Number	Percent
Water pollution	212	34.5%
Illegal dumps/garbage/solid waste	166	27.0%
Air pollution	84	13.7%
Loss of forested areas in Alabama	43	7.0%
Hazardous waste	34	5.5%
Loss of animal/plant species	30	4.9%
Loss of ozone in the atmosphere	22	3.6%
Other	9	1.5%
No answer	14	2.3%

\*Other responses are listed in Appendix C, question 2b.

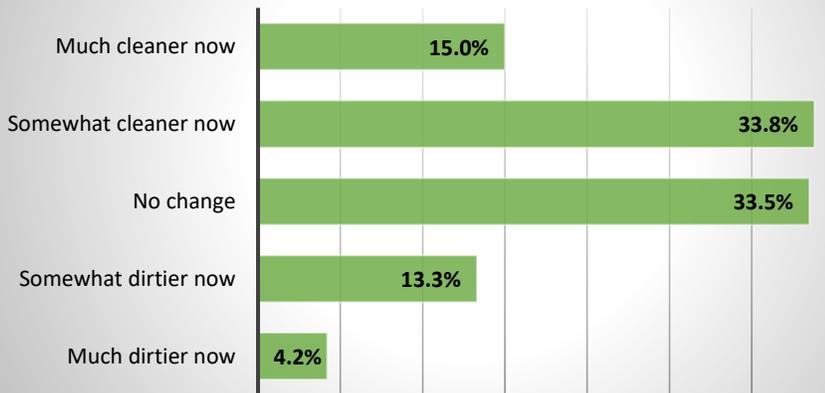
# Water Quality

## How would you rate the water quality in Alabama?



Rating	Number	Percent
Very Good	119	19.3%
Fairly Good	386	62.8%
Fairly Bad	110	17.9%
Very Bad	0	0.0%

## How would you rate the improvement in water quality in Alabama in your lifetime?

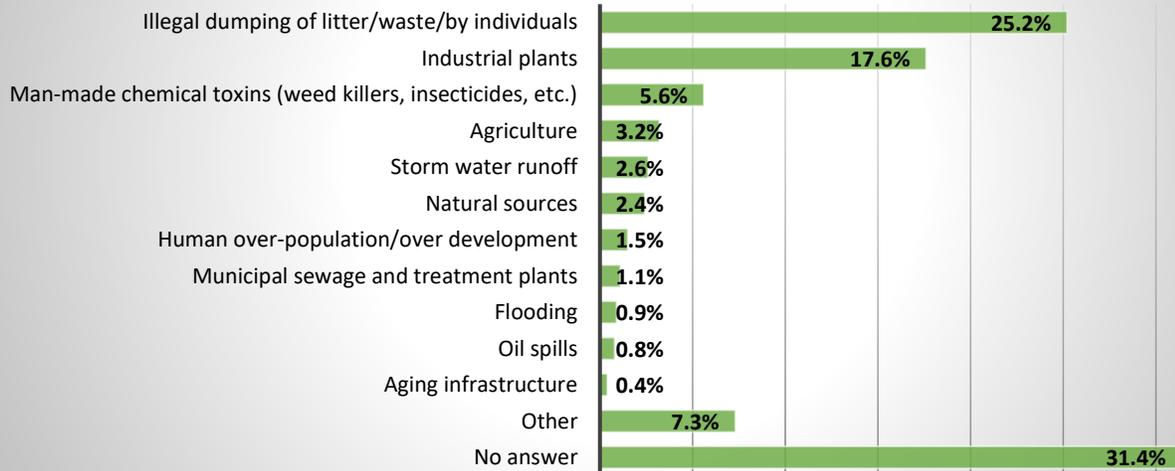


Rating	Number	Percent
Much cleaner now	92	15.0%
Somewhat cleaner now	208	33.8%
No change	206	33.5%
Somewhat dirtier now	82	13.3%
Much dirtier now	26	4.2%

# Water Quality

## What do you think is the biggest source of water pollution in Alabama today?

(Frequency of open-ended responses by category)



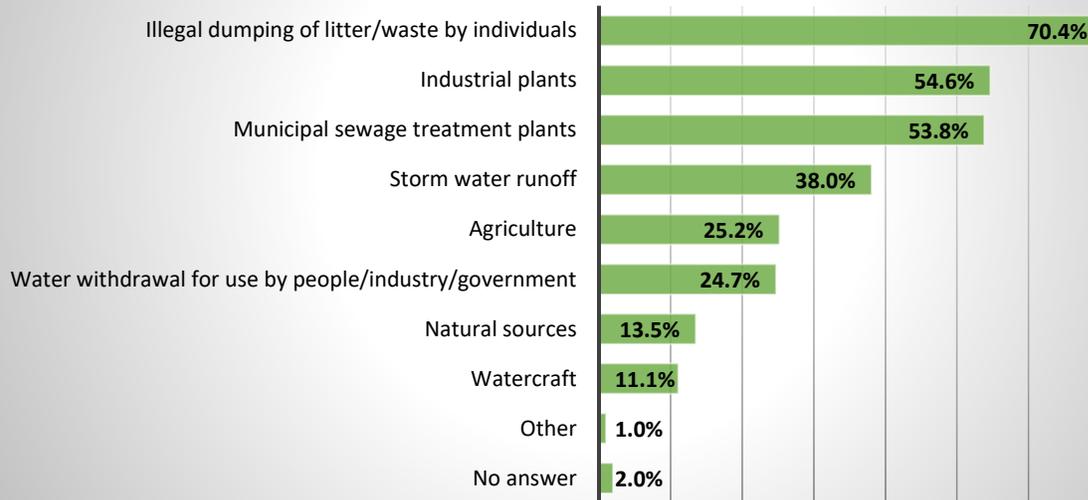
Category	Number	Percent
Illegal dumping of litter/waste/by individuals	155	25.2%
Industrial plants	108	17.6%
Man-made chemical toxins (weed killers, insecticides, etc.)	34	5.6%
Agriculture	20	3.2%
Storm water runoff	16	2.6%
Natural sources	15	2.4%
Human over-population/over development	9	1.5%
Municipal sewage and treatment plants	7	1.1%
Flooding	6	0.9%
Oil spills	5	0.8%
Aging infrastructure	3	0.4%
Other*	45	7.3%
No answer	193	31.4%

\*Other responses are listed in Appendix C, question 5a.

## Water Quality

### What do you think is the biggest source of water pollution in Alabama today?

(Select up to 3 choices)

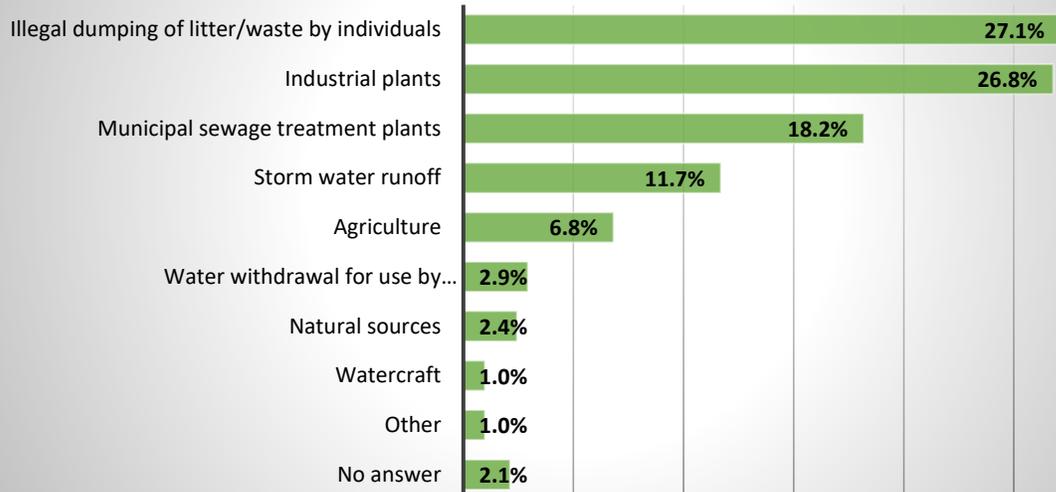


Problem	Number	Percent
Illegal dumping of litter/waste by individuals	433	70.4%
Industrial plants	336	54.6%
Municipal sewage treatment plants	331	53.8%
Storm water runoff	234	38.0%
Agriculture	155	25.2%
Water withdrawal for use by people/industry/government	152	24.7%
Natural sources	83	13.5%
Watercraft	68	11.1%
Other*	6	1.0%
No answer	12	2.0%

\*Other responses are listed in Appendix C, question 5b.

## Water Quality

### What do you think is the biggest source of water pollution Alabama in today? (Top choice)

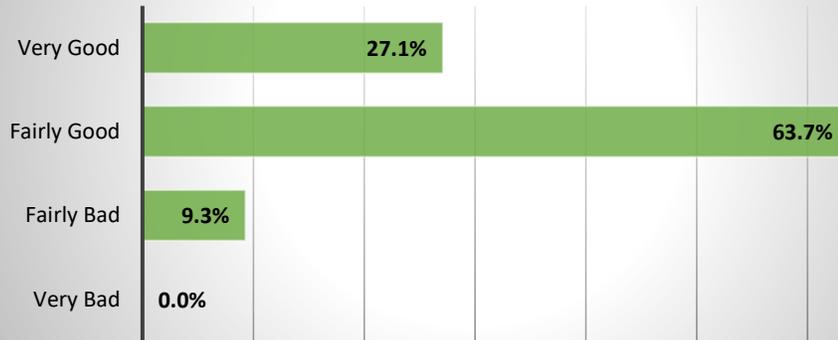


Problem	Number	Percent
Illegal dumping of litter/waste by individuals	167	27.1%
Industrial plants	165	26.8%
Municipal sewage treatment plants	112	18.2%
Storm water runoff	72	11.7%
Agriculture	42	6.8%
Water withdrawal for use by people/industry/government	18	2.9%
Natural sources	15	2.4%
Watercraft	6	1.0%
Other*	6	1.0%
No answer	13	2.1%

\*Other responses are listed in Appendix C, question 5b.

## Air Quality

### How would you rate the air quality in Alabama?



Rating	Number	Percent
Very Good	166	27.1%
Fairly Good	392	63.7%
Fairly Bad	57	9.3%
Very Bad	0	0.0%

### How would you rate the improvement in air quality in Alabama in your lifetime

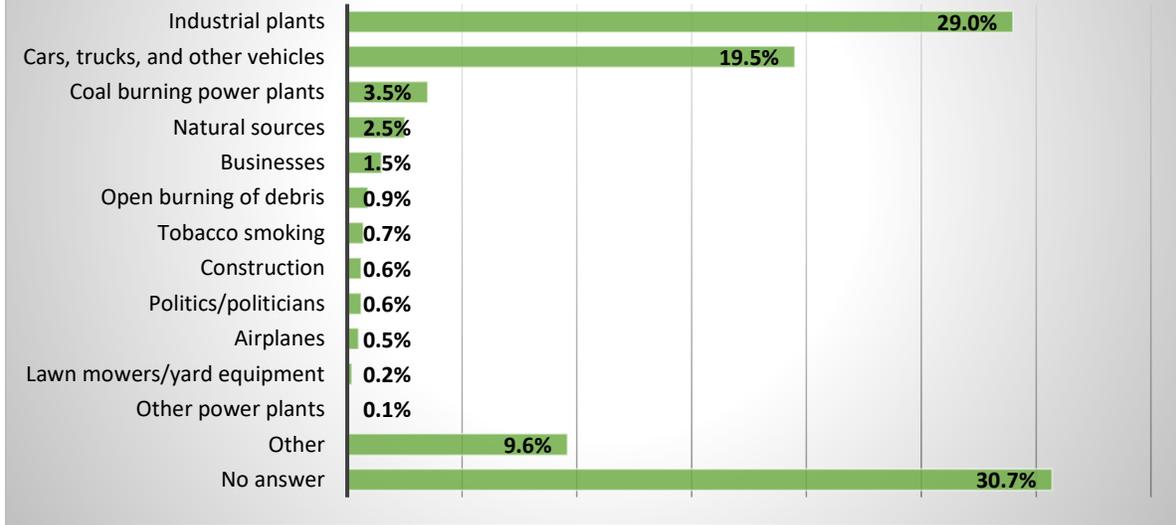


Rating	Number	Percent
Much cleaner now	96	15.8%
Somewhat cleaner now	169	27.5%
No change	252	41.1%
Somewhat dirtier now	84	13.8%
Much dirtier now	11	1.7%

## Air Quality

### What do you think is the biggest source of air pollution in Alabama today?

(Frequency of open-ended responses by category)



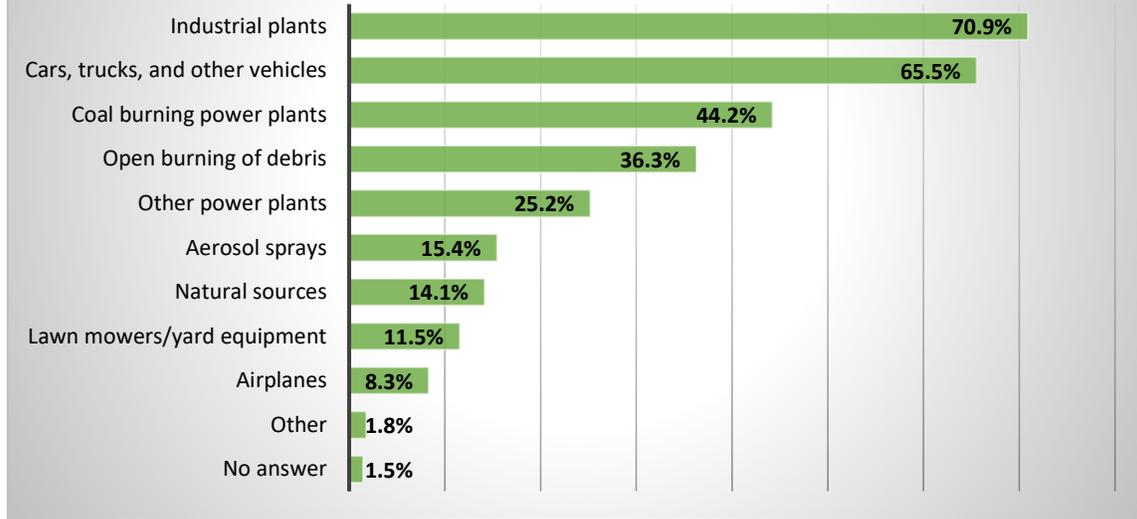
Category	Frequency	Percent
Industrial plants	178	29.0%
Cars, trucks, and other vehicles	120	19.5%
Coal burning power plants	22	3.5%
Natural sources	15	2.5%
Businesses	9	1.5%
Open burning of debris	5	0.9%
Tobacco smoking	5	0.7%
Construction	4	0.6%
Politics/politicians	3	0.6%
Airplanes	3	0.5%
Lawn mowers/yard equipment	2	0.2%
Other power plants	1	0.1%
Other*	59	9.6%
No answer	189	30.7%

\*Other responses are listed in Appendix C, question 8a.

## Air Quality

### What do you think is the biggest source of air pollution in Alabama today?

(Select up to 3 choices)

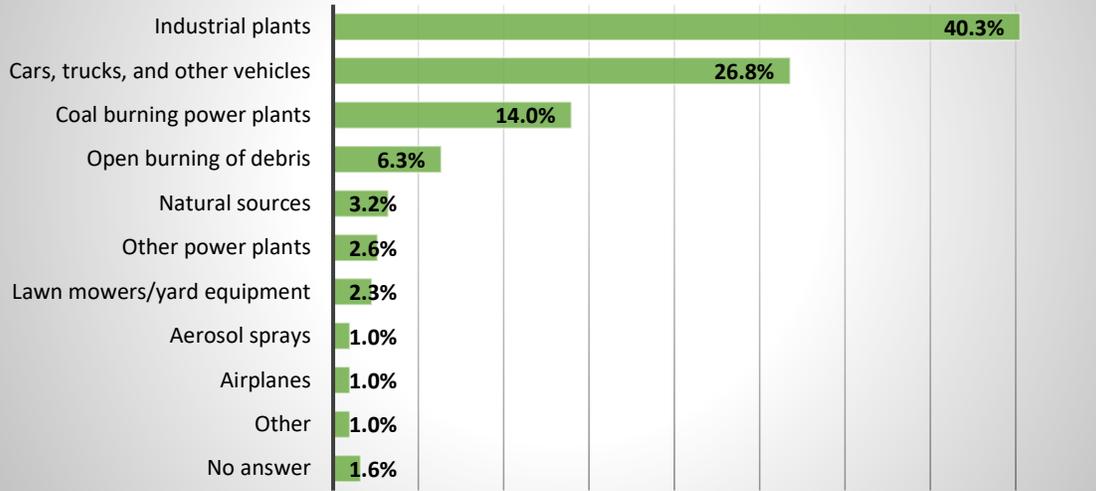


Problem	Number	Percent
Industrial plants	436	70.9%
Cars, trucks, and other vehicles	403	65.5%
Coal burning power plants	272	44.2%
Open burning of debris	223	36.3%
Other power plants	155	25.2%
Aerosol sprays	95	15.4%
Natural sources	87	14.1%
Lawn mowers/yard equipment	71	11.5%
Airplanes	51	8.3%
Other*	11	1.8%
No answer	9	1.5%

\*Other responses are listed in Appendix C, question 8b.

## Air Quality

### What do you think is the biggest source of air pollution Alabama in today? (Top choice)

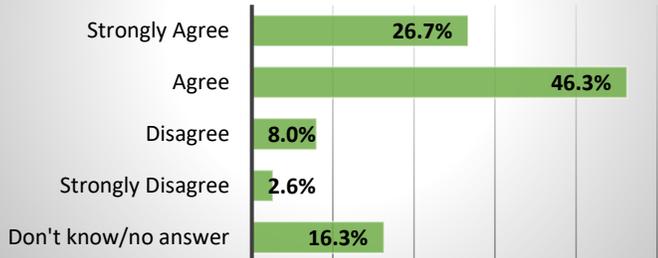


Problem	Number	Percent
Industrial plants	248	40.3%
Cars, trucks, and other vehicles	165	26.8%
Coal burning power plants	86	14.0%
Open burning of debris	39	6.3%
Natural sources	20	3.2%
Other power plants	16	2.6%
Lawn mowers/yard equipment	14	2.3%
Aerosol sprays	6	1.0%
Airplanes	6	1.0%
Other*	6	1.0%
No answer	10	1.6%

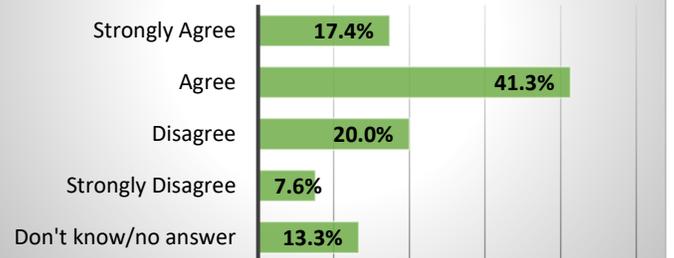
\*Other responses are listed in Appendix C, question 8b.

# Laws and Regulations

**Local zoning laws are needed to address environmental impacts of development not regulated by the state**



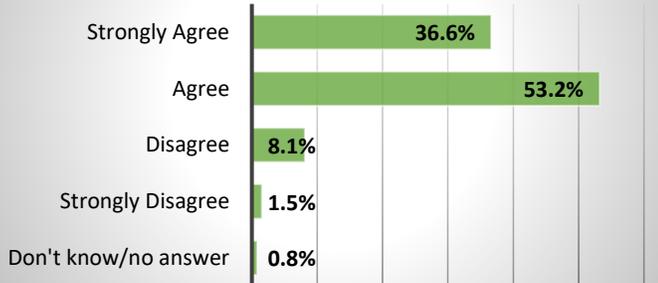
**Environmental laws in effect in Alabama are sufficient to protect public health and the environment**



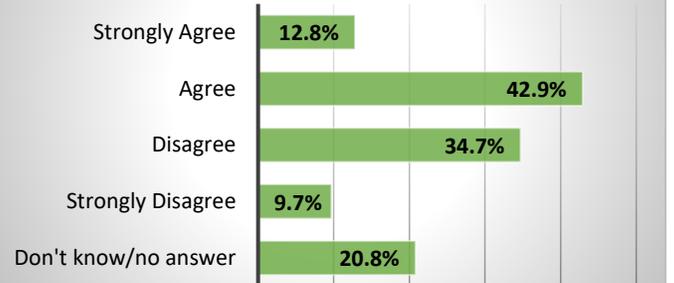
Rating	Number	Percent
Strongly Agree	164	26.7%
Agree	285	46.3%
Disagree	49	8.0%
Strongly Disagree	16	2.6%
Don't know/no answer	100	16.3%

Rating	Number	Percent
Strongly Agree	107	17.4%
Agree	254	41.3%
Disagree	124	20.2%
Strongly Disagree	47	7.6%
Don't know/no answer	82	13.3%

**Environmental standards protect your health and the environment**



**Environmental laws are being enforced in Alabama**



Rating	Number	Percent
Strongly Agree	225	36.6%
Agree	327	53.2%
Disagree	50	8.1%
Strongly Disagree	9	1.5%
No answer	5	0.8%

Rating	Number	Percent
Strongly Agree	62	12.8%
Agree	209	42.9%
Disagree	169	34.7%
Strongly Disagree	47	9.7%
Don't know/No answer	128	20.8%

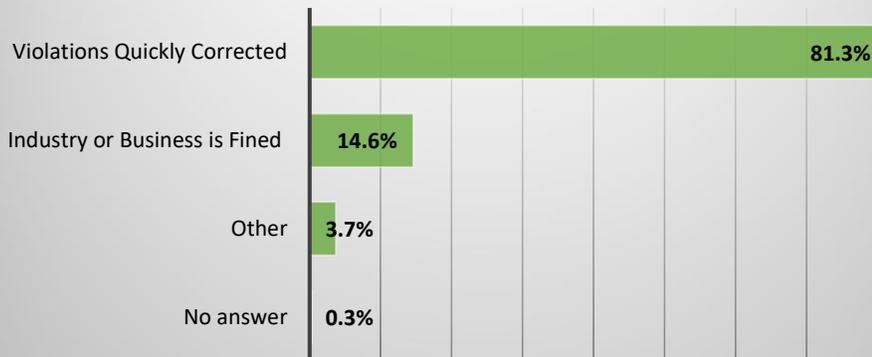
## Violations and Penalties

**When an industry or business is fined for violations of environmental regulations, do you feel the penalty amount is generally...**



Rating	Number	Percent
Too High	50	8.1%
The Correct Amount	161	26.2%
Too Low	217	35.3%
Don't know/no answer	187	30.4%

**What should be the major objective when a violation of environmental regulations is discovered at an industry or business?**

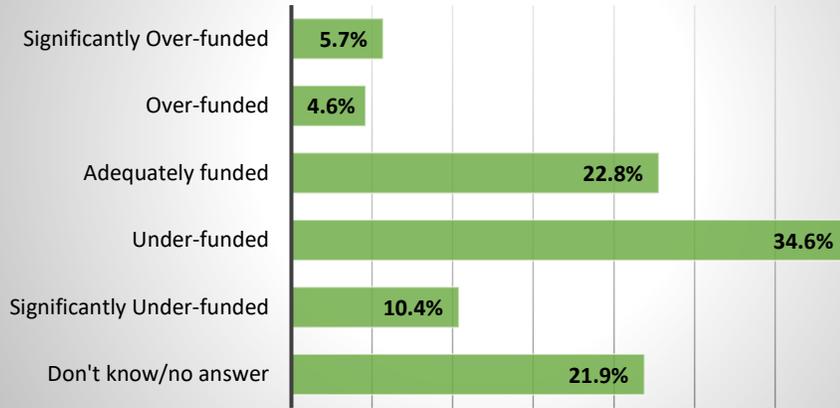


Rating	Number	Percent
Violations Quickly Corrected	500	81.3%
Industry or Business is Fined	90	14.6%
Other*	23	3.7%
No answer	2	0.3%

\*Other responses are listed in Appendix C, question 15.

## Funding

**Overall, how would you rate the funding of state environmental programs in Alabama?**



Rating	Number	Percent
Significantly over-funded	35	5.7%
Over-funded	28	4.6%
Adequately funded	140	22.8%
Under-funded	213	34.6%
Significantly under-funded	64	10.4%
Don't know/no answer	134	21.9%

## Appendix A: Survey questions and response options

1. Overall, how would you rate the quality of the environment in Alabama?

1. Very Bad
2. Fairly Bad
3. Fairly Good
4. Very Good

2a. What do you think is the most important environmental problem facing Alabama today?

Open-ended

2b. Choosing from the list below, what do you think are the top 3 most important environmental problems facing Alabama today? (List in order of importance)

1. Water pollution
2. Air pollution
3. Illegal dumps/garbage/solid waste
4. Hazardous waste
5. Loss of animal/plant species
6. Loss of forested areas in Alabama
7. Loss of ozone in the atmosphere
8. Other

3. How would you rate the water quality in Alabama?

1. Very Bad
2. Fairly Bad
3. Fairly Good
4. Very Good

4. How would you rate the improvement in water quality in Alabama in your lifetime?

1. Much cleaner now
2. Somewhat cleaner now
3. No change
4. Somewhat dirtier now
5. Much dirtier now

5a. What do you think is the biggest source of water pollution in Alabama today?

Open-ended

5b. Choosing from the list below, what do you think are the top 3 biggest sources of water pollution in Alabama today? (List in order of importance)

1. Municipal sewage treatment plants
2. Industrial plants
3. Storm water runoff
4. Agriculture
5. Water withdrawal for use by people/industry/government

6. Illegal dumping of litter/waste by individuals
7. Watercraft
8. Natural sources
9. Other

6. How would you rate the air quality in Alabama?

1. Very Bad
2. Fairly Bad
3. Fairly Good
4. Very Good

7. How would you rate the improvement in air quality in Alabama in your lifetime?

1. Much cleaner now
2. Somewhat cleaner now
3. No change
4. Somewhat dirtier now
5. Much dirtier now

8a. What do you think is the biggest source of air pollution in Alabama today?

Open-ended

8b. Choosing from the list below, what do you think are the top 3 biggest sources of air pollution in Alabama today? (List in order of importance)

1. Industrial plants
2. Coal burning power plants
3. Other power plants
4. Cars, trucks, and other vehicles
5. Lawn mowers/yard equipment
6. Open burning of debris
7. Aerosol sprays
8. Airplanes
9. Natural sources
10. Other

**For the next few questions, please indicate the extent to which you agree or disagree with each statement.**

9. Local zoning laws are needed to address environmental impacts of development not regulated by the state.

1. Strongly agree
2. Agree
3. Disagree
4. Strongly disagree
5. Don't know

10. Environmental standards protect your health and the environment.

1. Strongly agree
2. Agree
3. Disagree
4. Strongly disagree

11. Environmental laws in effect in Alabama are sufficient to protect public health and the environment.

1. Strongly agree
2. Agree
3. Disagree
4. Strongly disagree
5. Don't know

12. Environmental laws are being enforced in Alabama.

1. Strongly agree
2. Agree
3. Disagree
4. Strongly disagree
5. Don't know

13. Overall, how would you rate the funding of state environmental programs in Alabama?

1. Significantly under-funded
2. Under-funded
3. Adequately funded
4. Over-funded
5. Significantly over-funded
6. Don't know

14. When an industry or business is fined for violations of environmental regulations, do you feel the penalty amount is generally too high, the correct amount, or too low?

1. Too high
2. The correct amount
3. Too Low
4. Don't know

15. What should be the major objective when a violation of environmental regulations is discovered at an industry or business?

1. Ensuring the violation is quickly corrected
2. Ensuring the industry or business is fined
3. Other \_\_\_\_\_

16. Is the place where you live best described as:

1. Urban (recoded as More urban)
2. Suburban (recoded as More urban)
3. Medium size city (recoded as More urban)
4. Small town (recoded as More rural)
5. Rural (recoded as More rural)
6. Other \_\_\_\_\_

Or (recodes):

1. More urban (Urban, Suburban, Medium size city)
2. More rural (Small town, Rural)

17. What is your zip code or town name?

Open-ended

18. What is your age?

Open-ended (Recoded as: 1=18-34, 2=35-54, 3=55 and above, 9=missing)

19. Do you consider yourself of Hispanic origin such as Mexican, Puerto Rican, Cuban, or other Spanish or Latino background?

- 0. No
- 1. Yes

20. Which category best describes your race?

- 1. White
- 2. Black or African American
- 3. Asian
- 4. Indian (American)/Alaska Native
- 5. Multiracial
- 6. Other \_\_\_\_\_

21. What is your sex?

- 1. Male
- 2. Female
- 3. Other

22. What is your approximate annual household income before taxes?

- 1. \$20,000 or less
- 2. \$20,001 - \$30,000
- 3. \$30,001 - \$50,000
- 4. \$50,001 - \$70,000
- 5. \$70,001 - \$100,000
- 6. \$100,001 - \$150,000
- 7. More than \$150,000

23. What is the highest level of education you have completed?

- 1. Some Grade School
- 2. Some High School
- 3. Graduated from High School/GED
- 4. Career/Technical School
- 5. Some College
- 6. Graduated from College
- 7. Graduate/Professional School

24. Other comments?

Open-ended

**Appendix B: Cross Tabulations of Questions by Demographic Groups**

Question/Reponses	Age						Race/Ethnicity					Income								Gender				Location			
	18-34 N=178		35-54 N=221		55+ N=209		White N=411		African American & Other N=199			Up to \$30,000 N=221		\$30,000- \$50,000 N=97		\$50,000- \$70,000 N=107		\$70,000+ N=184		Male N=296		Female N=314		Urban N=343		Rural N=272	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#
<b>Overall, how would you rate the quality of the environment in Alabama?</b>																											
Very Good	75	41.9	68	30.6	81	38.8	143	34.2	83	42.3	72	32.7	36	36.7	40	37.4	79	41.8	127	42.9	99	31.5	125	36.3	101	37.3	
Fairly Good	88	49.2	147	66.2	104	49.8	249	69.6	92	46.9	135	61.4	55	56.1	58	54.2	93	49.2	145	49.0	192	61.1	183	53.2	159	58.7	
Fairly Bad	14	7.8	7	3.2	19	9.1	23	5.5	17	8.7	12	5.5	6	6.1	9	8.4	12	6.3	21	7.1	19	6.1	31	9.0	9	3.3	
Very Bad	2	0.0	0	0.0	5	2.4	3	0.7	4	2.0	1	0.5	1	1.0	0	0.0	5	2.6	3	1.0	4	1.3	5	1.5	2	0.7	
<b>Choosing from the list below, what do you think are the top three most important environmental problem facing Alabama today? (All 3 choices)</b>																											
Water pollution	106	59.6	141	63.8	155	74.2	288	70.1	114	57.3	126	57.0	66	68.0	75	70.1	134	72.8	202	68.2	202	64.3	243	70.8	163	59.9	
Air pollution	65	36.5	89	40.3	74	35.4	144	35.0	85	42.7	80	36.2	33	34.0	43	40.2	73	39.7	104	35.1	125	39.8	146	42.6	85	31.3	
Illegal dumps/garbage/solid waste	105	59.0	146	66.1	143	68.4	279	67.9	118	59.3	148	67.0	59	60.8	73	68.2	113	61.4	195	65.9	197	62.7	209	60.9	187	68.8	
Hazardous waste	55	30.9	73	33.0	85	40.7	149	36.3	67	33.7	67	30.3	33	34.0	36	33.6	79	42.9	107	36.1	108	34.4	112	32.7	104	38.2	
Loss of animal/plant species	44	24.7	51	23.1	4	19.1	83	20.2	52	26.1	52	23.5	27	27.8	25	23.4	30	16.3	62	20.9	72	22.9	82	23.9	53	19.5	
Loss of forested areas in Alabama	94	52.8	97	43.9	74	35.4	177	43.1	90	45.2	111	50.2	47	48.5	44	41.1	66	35.9	117	39.5	150	47.8	128	37.3	141	51.8	
Loss of ozone in the atmosphere	37	20.8	51	32.1	32	15.3	61	14.8	56	28.1	46	20.8	25	25.8	20	18.7	27	14.7	61	20.6	58	18.5	77	22.4	45	16.5	
Other	10	5.6	6	2.7	8	3.8	12	2.9	8	4.0	8	3.6	1	1.0	2	1.9	8	4.3	11	3.7	12	3.8	13	3.8	10	3.7	
No answer	7	3.9	4	1.8	4	1.9	13	3.2	2	1.0	8	3.6	0	0.0	1	0.9	5	2.7	8	2.7	6	1.9	6	1.7	8	2.9	
<b>Choosing from the list below, what do you think are the top three most important environmental problem facing Alabama today? (Top choice)</b>																											
Water pollution	50	28.1	79	35.7	81	38.8	163	39.7	48	24.1	50	22.6	37	38.1	44	41.1	79	42.9	106	35.8	105	33.4	123	35.9	89	32.7	
Air pollution	25	14.0	34	15.4	23	11.0	53	12.9	31	15.6	33	14.9	12	12.4	16	15.0	23	12.5	27	9.1	55	17.5	53	15.5	31	11.4	
Illegal dumps/garbage/solid waste	41	23.0	65	29.4	59	28.2	104	25.3	63	31.7	73	33.0	21	21.6	28	26.2	44	23.9	95	32.1	70	22.3	89	25.9	78	28.7	
Hazardous waste	14	7.9	8	3.6	12	5.7	20	4.9	15	7.5	12	5.4	9	9.3	5	4.7	9	4.9	14	4.7	20	6.4	16	4.7	18	6.6	
Loss of animal/plant species	16	9.0	7	3.2	7	3.3	13	3.2	17	8.5	21	9.5	3	3.1	3	2.8	2	1.1	12	4.1	18	5.7	16	4.7	14	5.1	
Loss of forested areas in Ala.	14	7.9	18	8.1	10	4.8	29	7.1	14	7.0	18	8.1	7	7.2	5	4.7	13	7.1	18	6.1	24	7.6	22	6.4	21	7.7	
Loss of ozone in the atmosphere	7	3.9	5	2.3	10	4.8	15	3.6	7	3.5	6	2.7	8	8.2	4	3.7	5	2.7	8	2.7	14	4.5	15	4.4	7	2.6	
Other	4	2.2	2	0.9	3	1.4	4	1.0	2	1.0	0	0.0	1	1.0	1	0.9	4	2.2	7	2.4	1	0.3	5	1.5	4	1.5	
No answer	7	3.9	4	1.8	4	1.9	13	3.2	2	1.0	8	3.6	0	0.0	1	0.9	5	2.7	8	2.7	6	1.9	6	1.7	8	2.9	
<b>How would you rate the water quality in Alabama?</b>																											
Very Good	44	24.6	35	15.8	39	18.7	69	16.5	49	24.9	40	18.1	13	13.4	17	15.9	49	25.8	70	23.6	49	15.6	72	21.0	46	17.0	
Fairly Good	104	58.1	147	66.2	133	63.6	276	66.0	111	56.3	136	61.5	69	71.1	71	66.4	110	57.9	180	60.8	203	64.6	204	59.5	182	67.2	
Fairly Bad	31	17.3	40	18.0	37	17.7	73	17.5	37	18.8	45	19.0	15	14.4	19	17.8	31	16.3	46	15.5	62	19.7	67	19.5	43	15.9	
Very Bad	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	

**Appendix B: Cross Tabulations of Questions by Demographic Groups**

Question/Reponses	Age						Race/Ethnicity				Income								Gender				Location			
	18-34 N=178		35-54 N=221		55+ N=209		White N=411		African American & Other N=199		Up to \$30,000 N=221		\$30,000- \$50,000 N=97		\$50,000- \$70,000 N=107		\$70,000+ N=184		Male N=296		Female N=314		Urban N=343		Rural N=272	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
<b>How would you rate the improvement in water quality in Alabama in your lifetime?</b>																										
Much cleaner now	35	19.7	26	11.8	30	14.4	46	11.0	46	23.5	37	16.8	9	9.3	16	15.0	30	15.8	54	18.3	38	12.1	51	14.9	41	15.1
Somewhat cleaner now	64	36.0	62	28.1	81	38.8	150	35.9	58	29.6	70	31.8	37	38.1	30	28.0	71	37.4	105	35.6	102	32.5	120	35.0	88	32.5
No change	49	27.5	100	45.2	56	26.8	141	33.7	65	33.2	82	37.3	32	33.0	40	37.4	52	27.4	95	32.2	107	34.1	118	34.4	88	32.5
Somewhat dirtier now	24	13.5	24	10.9	32	15.3	68	16.3	14	7.1	20	9.1	17	17.5	17	15.9	28	14.7	30	10.2	52	16.6	42	12.2	40	14.8
Much dirtier now	6	3.4	9	4.1	10	4.8	13	3.1	13	6.6	11	5.0	2	2.1	4	3.7	9	4.7	11	3.7	15	4.8	12	3.5	14	5.2
<b>Choosing from the list below, what do you think are the top three biggest sources of water pollution in Alabama today? (All 3 choices)</b>																										
Municipal sewage treatment plants	116	65.2	103	46.6	107	51.2	214	52.1	113	56.8	131	59.3	56	57.7	58	54.2	83	45.1	162	54.7	167	53.2	183	53.4	149	54.8
Industrial plants	70	39.3	131	59.3	132	63.2	260	63.3	75	37.7	98	44.3	66	68.0	59	55.1	111	60.3	171	57.8	164	52.2	187	54.5	149	54.8
Storm water runoff	62	34.8	77	34.8	93	44.5	156	38.0	77	38.7	88	39.8	31	32.0	39	36.4	74	40.2	105	35.5	125	39.8	134	39.1	100	36.8
Agriculture	30	16.9	66	29.9	58	27.8	108	26.3	46	23.1	50	22.6	23	23.7	29	27.1	52	28.3	89	30.1	65	20.7	92	26.8	63	23.2
Water withdrawal for use by people/industry/government	67	37.6	45	20.4	37	17.2	91	22.1	61	30.7	61	27.6	19	19.6	27	25.2	45	24.5	76	25.7	76	24.2	83	24.2	69	25.4
Illegal dumping of litter/waste by individuals	114	64.0	163	73.8	151	72.2	286	69.6	143	71.9	154	69.7	73	75.3	75	70.1	127	69.0	203	68.6	226	72.0	240	70.0	193	71.0
Watercraft	27	15.2	31	14.0	10	4.8	40	9.7	25	12.6	23	10.4	13	13.4	15	14.0	13	7.1	25	8.4	43	13.7	38	11.1	30	11.0
Natural sources	25	14.0	38	17.2	19	9.1	37	9.0	46	23.1	36	16.3	8	8.2	15	14.0	23	12.5	30	10.1	51	16.2	47	13.7	36	13.2
Other	1	0.6	1	0.5	4	1.9	4	1.0	2	1.0	0	0.0	2	2.1	1	0.9	3	1.6	4	1.4	2	0.6	3	0.9	3	1.1
<b>Choosing from the list below, what do you think are the top three biggest sources of water pollution in Alabama today? (Top choice)</b>																										
Municipal sewage treatment plants	59	33.1	22	10.0	29	13.9	56	13.6	52	26.1	47	21.3	20	20.6	19	17.8	23	12.5	52	17.6	58	18.5	63	18.4	49	18.0
Industrial plants	25	14.0	68	30.8	69	33.0	136	33.1	27	13.6	40	18.1	37	38.1	27	25.2	59	32.1	88	29.7	75	23.9	101	29.4	63	23.2
Storm water runoff	23	12.9	22	10.0	27	12.9	40	9.7	32	16.1	23	10.4	3	3.1	18	16.8	28	15.2	37	12.5	33	10.5	40	11.7	33	12.1
Agriculture	7	3.9	18	8.1	16	7.7	26	6.3	16	8.0	14	6.3	3	3.1	9	8.4	16	8.7	21	7.1	21	6.7	20	5.8	22	8.1
Water withdrawal for use by people/industry/government	1	0.6	11	5.0	6	2.9	13	3.2	5	2.5	10	4.5	2	2.1	3	2.8	3	1.6	7	2.4	12	3.8	11	3.2	7	2.6
Illegal dumping of litter/waste by individuals	52	29.2	63	28.5	51	24.4	119	29.0	48	24.1	70	31.7	28	28.9	23	21.5	45	24.5	80	27.0	86	27.4	82	23.9	85	31.3
Watercraft	1	0.6	4	1.8	1	0.5	3	0.7	3	1.5	2	0.9	0	0.0	3	2.8	1	0.5	0	0.0	6	1.9	6	1.7	0	0.0
Natural sources	3	1.7	11	5.0	1	0.5	2	0.5	13	6.5	9	4.1	0	0.0	2	1.9	3	1.6	1	0.3	14	4.5	12	3.5	3	1.1
Other	1	0.6	0	0.0	4	1.9	3	0.7	2	1.0	0	0.0	2	2.1	1	0.9	3	1.6	4	1.4	2	0.6	2	0.6	3	1.1

**Appendix B: Cross Tabulations of Questions by Demographic Groups**

Question/Reponses	Age				Race/Ethnicity				Income								Gender				Location						
	18-34 N=178		35-54 N=221		55+ N=209		White N=411		African American & Other N=199		Up to \$30,000 N=221		\$30,000- \$50,000 N=97		\$50,000- \$70,000 N=107		\$70,000+ N=184		Male N=296		Female N=314		Urban N=343		Rural N=272		
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
	Note: Within each question, columns sum to 100%																										
<b>How would you rate the air quality in Alabama?</b>																											
Very Good	51	28.7	49	22.1	65	31.1	115	27.4	52	26.4	56	25.3	26	26.5	21	19.6	64	33.7	90	30.4	77	24.5	82	23.9	85	31.3	
Fairly Good	107	60.1	159	71.6	122	58.4	265	63.2	127	64.5	147	66.5	64	65.3	76	71.0	105	55.3	182	61.5	204	65.0	216	63.0	175	64.3	
Fairly Bad	20	11.2	14	6.3	22	10.5	39	9.3	18	9.1	18	8.1	8	8.2	10	9.3	21	11.1	24	8.1	33	10.5	45	13.1	12	4.4	
Very Bad	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	
<b>How would you rate the improvement in air quality in Alabama in your lifetime?</b>																											
Much cleaner now	36	20.6	28	12.7	31	14.8	47	11.3	50	25.5	39	17.9	7	7.1	17	16.0	32	16.8	59	19.9	37	11.9	59	17.2	38	14.1	
Somewhat cleaner now	42	24.0	48	21.7	78	37.3	121	29.2	47	24.0	46	21.0	34	34.7	25	23.6	64	33.7	90	30.4	78	25.0	101	29.4	68	25.2	
No change	68	38.9	109	49.3	72	34.4	180	43.4	72	36.7	99	45.4	45	45.9	40	37.7	68	35.8	115	38.9	135	43.3	136	39.7	116	43.0	
Somewhat dirtier now	25	14.3	35	15.8	23	11.0	59	14.2	27	12.8	32	14.7	10	10.2	22	20.8	21	11.1	27	9.1	56	17.9	40	11.7	44	16.3	
Much dirtier now	4	2.3	1	0.5	5	2.4	8	1.9	2	1.0	2	0.9	2	2.0	2	1.9	5	2.6	5	1.7	6	1.9	7	2.0	4	1.5	
<b>Choosing from the list below, what do you think are the top three biggest sources of air pollution in Alabama today? (All 3 choices)</b>																											
Industrial plants	110	61.8	166	75.1	158	75.6	310	75.4	122	61.3	144	65.2	78	80.4	82	76.6	126	68.5	229	77.4	205	65.3	237	69.1	199	73.2	
Coal burning power plants	89	50.0	82	37.1	96	45.9	186	45.3	84	42.2	84	38.0	52	53.6	48	44.9	88	47.8	150	50.7	120	38.2	167	48.7	105	38.6	
Other power plants	54	30.3	57	25.8	44	21.1	94	22.9	61	30.7	66	29.9	27	27.8	26	24.3	37	20.1	77	26.0	77	24.5	71	20.7	84	30.9	
Cars, trucks, and other vehicles	98	55.1	152	68.8	148	70.8	279	67.9	123	61.8	137	62.0	60	61.9	77	72.0	126	68.5	183	61.8	216	68.8	227	66.2	176	64.7	
Lawn mowers/yard equipment	27	15.2	26	11.8	15	7.2	35	8.5	31	15.6	27	12.2	6	6.2	14	13.1	21	11.4	26	8.8	43	13.7	51	14.9	20	7.4	
Open burning of debris	58	32.6	85	38.5	77	36.8	155	37.7	68	34.2	91	41.2	34	35.1	39	36.4	59	32.1	89	30.1	132	42.0	116	33.8	107	39.3	
Aerosol sprays	27	15.2	47	21.3	20	9.6	46	11.2	45	22.6	46	20.8	4	4.1	15	14.0	28	15.2	45	15.2	50	15.9	72	21.0	23	8.5	
Airplanes	24	13.5	14	6.3	13	6.2	34	8.3	17	8.5	15	6.8	12	12.4	8	7.5	16	8.7	21	7.1	29	9.2	30	8.7	20	7.4	
Natural sources	27	15.2	22	10.0	37	17.7	50	12.2	37	18.6	28	12.7	19	19.6	8	7.5	30	16.3	41	13.9	43	13.7	39	11.4	47	17.3	
Other	2	1.1	3	1.4	6	2.9	7	1.7	4	2.0	3	1.4	2	2.1	2	1.9	5	2.7	4	1.4	6	1.9	2	0.6	9	3.3	
<b>Choosing from the list below, what do you think are the top three biggest sources of air pollution in Alabama today? (Top choice)</b>																											
Industrial plants	77	43.3	94	42.5	76	36.4	174	42.3	72	36.2	87	39.4	46	47.4	53	49.5	58	31.5	131	44.3	116	36.9	128	37.3	120	44.1	
Coal burning power plants	24	13.5	27	12.2	32	15.3	62	15.1	23	11.6	24	10.9	14	14.4	15	14.0	34	18.5	44	14.9	14	13.1	65	19.0	21	7.7	
Other power plants	12	6.7	3	1.4	1	0.5	6	1.5	10	5.0	9	4.1	0	0.0	6	3.3	10	3.4	6	1.9	4	2.7	11	3.2	5	1.8	
Cars, trucks, and other vehicles	30	16.9	70	31.7	62	29.7	111	27.0	53	26.6	55	24.9	23	23.7	30	28.0	56	30.4	81	27.4	82	28.1	98	28.6	67	24.6	
Lawn mowers/yard equipment	10	5.6	3	1.4	1	0.5	4	1.0	10	5.0	7	3.2	2	2.1	0	0.0	5	2.7	2	0.7	12	3.8	6	1.7	8	2.9	
Open burning of debris	11	6.2	13	5.9	14	6.7	24	5.8	14	7.0	23	10.4	4	4.1	5	4.7	7	3.8	5	3.4	5	1.9	16	4.7	22	8.1	
Aerosol sprays	3	1.7	2	0.9	1	0.5	4	1.0	2	1.0	4	1.8	0	0.0	1	0.9	1	0.5	1	0.3	5	1.6	5	1.5	1	0.4	
Airplanes	0	0	2	0.9	5	2.4	3	0.7	3	1.5	0	0.0	3	3.1	1	0.9	2	1.1	2	0.7	3	1.0	2	0.6	5	1.8	
Natural sources	6	3.4	3	1.4	11	5.3	11	2.7	9	4.5	6	2.7	4	4.1	1	0.9	9	4.9	7	2.4	13	4.1	7	2.0	13	4.8	
Other	0	0	1	0.5	5	2.4	3	0.7	3	1.5	1	0.5	1	1.0	1	0.9	3	1.6	4	1.4	2	0.6	1	0.3	5	1.8	

## Appendix B: Cross Tabulations of Questions by Demographic Groups

Question/Reponses	Age						Race/Ethnicity						Income						Gender				Location			
	18-34 N=178		35-54 N=221		55+ N=209		White N=411		African American & Other N=199		Up to \$30,000 N=221		\$30,000- \$50,000 N=97		\$50,000- \$70,000 N=107		\$70,000+ N=184		Male N=296		Female N=314		Urban N=343		Rural N=272	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
<b>Note: Within each question, columns sum to 100%</b>																										
<b>For the next few questions, please indicate the extent to which you agree or disagree with each statement.</b>																										
<b>Local zoning laws are needed to address environmental impacts of development not regulated by the state.</b>																										
Strongly Agree	58	32.4	46	20.7	59	28.1	110	26.3	54	27.6	60	27.1	25	25.5	27	27.6	52	31.0	79	26.7	85	27.1	90	26.2	74	27.2
Agree	69	38.5	109	49.1	104	49.5	205	49.0	80	40.8	83	37.6	53	54.1	61	62.2	89	53.0	132	44.6	150	47.8	172	50.0	114	41.9
Disagree	16	8.9	14	6.3	20	9.5	36	8.6	13	6.6	14	6.3	11	11.2	7	7.1	17	10.1	31	10.5	18	5.7	18	5.2	32	11.8
Strongly Disagree	2	1.1	3	1.4	12	5.7	14	3.3	2	1.0	1	0.5	2	2.0	3	3.1	10	6.0	12	4.1	4	1.3	7	2.0	9	3.3
Don't know/No answer	34	19.0	50	22.5	15	7.1	53	12.7	47	24.0	63	28.5	7	7.1	9	8.4	21	11.1	42	14.2	57	18.2	57	16.6	43	15.8
<b>Environmental standards protect your health and the environment.</b>																										
Strongly Agree	79	44.4	64	29.0	78	37.3	149	36.3	75	37.7	74	33.5	42	43.3	37	34.6	70	38.0	106	35.8	118	37.6	123	35.9	101	37.1
Agree	76	42.7	137	62.0	110	52.6	217	52.8	106	53.3	121	54.8	47	48.5	60	56.1	94	51.1	159	53.7	164	52.2	180	52.5	147	54.0
Disagree	18	10.1	18	8.1	14	6.7	37	9.0	14	7.0	20	9.0	8	8.2	10	9.3	12	6.5	19	6.4	30	9.6	31	9.0	19	7.0
Strongly Disagree	1	0.6	1	0.5	6	2.9	5	1.2	3	1.5	2	0.9	0	0.0	0	0.0	7	3.8	7	2.4	2	0.6	6	1.7	3	1.1
<b>Environmental laws in effect in Alabama are sufficient to protect public health and the environment.</b>																										
Strongly Agree	52	29.2	34	15.4	20	9.6	56	13.4	51	25.8	50	22.7	8	8.2	15	13.9	34	17.9	47	15.9	61	19.4	57	16.6	51	18.8
Agree	62	34.8	106	48.0	83	39.7	164	39.2	91	46.0	84	38.2	45	46.4	46	42.6	79	41.6	138	46.6	115	36.6	146	42.4	108	39.9
Disagree	25	14.0	45	20.4	52	24.9	103	24.6	22	11.1	31	14.1	30	30.9	24	22.2	39	20.5	55	18.6	68	21.7	76	22.1	48	17.7
Strongly Disagree	13	7.3	9	4.1	25	12.0	36	8.6	11	5.6	15	6.8	6	6.2	10	9.3	16	8.4	23	7.8	23	7.3	22	6.4	25	9.2
Don't know/No answer	26	14.6	27	12.2	29	13.9	59	14.1	23	11.6	40	18.2	8	8.2	13	12.0	22	11.6	33	11.1	47	15.0	43	12.5	39	14.4
<b>Environmental laws are being enforced in Alabama.</b>																										
Strongly Agree	31	17.4	20	9.0	10	4.8	27	6.5	35	17.8	34	15.3	5	5.1	7	6.5	16	8.7	28	9.4	35	11.1	30	8.7	32	11.8
Agree	46	25.8	86	38.6	76	36.5	146	34.9	62	31.5	59	26.6	34	34.7	43	40.2	73	37.0	108	36.4	99	31.4	117	34.0	92	33.8
Disagree	43	24.2	60	26.9	61	29.3	124	29.7	45	22.8	53	23.9	28	28.6	30	28.0	58	30.5	85	28.6	82	26.0	98	28.5	71	26.1
Strongly Disagree	10	5.6	15	6.7	22	10.6	33	7.9	14	7.1	16	7.2	5	5.1	8	7.5	19	10.0	25	8.4	22	7.0	28	8.1	19	7.0
Don't know/No answer	48	27.0	42	18.8	39	18.8	88	21.1	41	20.8	60	27.0	26	26.5	19	17.8	24	12.6	51	17.2	77	24.4	71	20.6	58	21.3
<b>Overall, how would you rate the funding of state environmental programs in Alabama?</b>																										
Significantly Over-funded	23	12.9	6	2.7	6	2.9	13	3.2	22	11.2	18	8.1	2	2.0	3	2.8	12	6.3	21	7.1	14	4.5	17	4.9	18	6.6
Over-funded	14	7.9	8	3.6	6	2.9	11	2.7	17	8.6	7	3.2	7	7.1	4	3.7	10	5.3	16	5.4	12	3.8	23	6.7	6	2.2
Adequately funded	33	18.5	47	21.3	59	28.2	101	24.6	38	19.3	44	20.0	24	24.5	25	23.4	48	25.3	77	26.0	62	19.7	80	23.3	60	22.1
Under-funded	52	29.2	81	36.7	75	35.9	157	38.2	53	26.9	72	32.7	36	36.7	38	35.5	66	34.7	96	32.4	116	36.9	121	15.2	92	33.9
Significantly Under-funded	13	7.3	20	9.0	31	14.8	85	20.7	19	9.6	17	7.7	11	11.2	13	12.4	23	12.1	33	11.1	31	9.9	36	10.5	27	10.0
Don't know/No answer	43	24.2	59	26.7	32	15.3	87	20.8	48	24.4	62	28.2	18	18.4	24	22.4	31	16.3	53	17.9	79	25.2	67	19.5	68	25.1

**Appendix B: Cross Tabulations of Questions by Demographic Groups**

Question/Reponses	Age						Race/Ethnicity						Income						Gender				Location			
	18-34 N=178		35-54 N=221		55+ N=209		White N=411		African American & Other N=199		Up to \$30,000 N=221		\$30,000- \$50,000 N=97		\$50,000- \$70,000 N=107		\$70,000+ N=184		Male N=296		Female N=314		Urban N=343		Rural N=272	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
<b>When an industry or business is fined for violations of environmental regulations, do you feel the penalty amount is generally too high, the correct amount, or too low?</b>																										
Too High	27	15.2	15	6.8	7	3.4	22	5.3	28	14.2	27	12.2	4	4.1	4	3.7	14	7.4	24	8.1	25	8.0	23	6.7	27	9.9
The Correct Amount	51	28.7	57	25.7	52	25.0	105	25.1	57	28.9	56	25.3	30	30.9	28	26.2	47	24.9	76	25.8	83	26.4	100	29.2	61	22.4
Too Low	43	24.2	79	35.6	92	44.2	163	38.9	54	27.4	55	24.9	45	46.4	41	38.3	77	40.7	116	39.3	100	31.8	128	37.3	89	32.7
Don't know/No answer	57	32.0	71	32.0	57	27.4	129	30.8	58	29.4	83	37.6	18	18.6	34	31.8	51	27.0	79	26.8	106	33.8	92	26.8	95	34.9
<b>What should be the major objective when a violation of environmental regulations is discovered at an industry or business?</b>																										
Violations Quickly Corrected	134	75.3	179	81.0	182	87.1	360	87.6	139	69.8	166	75.1	86	88.7	89	83.2	157	85.3	243	82.1	254	80.9	268	78.1	232	85.3
Industry or Business is Fined	36	20.2	36	16.3	17	8.1	38	9.2	49	24.6	41	18.6	10	10.3	15	14.0	21	11.4	43	14.5	46	14.6	63	18.4	26	9.6
Other	8	4.5	5	2.3	10	4.8	13	3.2	10	5.0	13	5.9	1	1.0	3	2.8	6	3.3	9	3.0	14	4.5	12	3.5	11	4.0

## Appendix C: Responses to Open-Ended Questions

This appendix presents three types of open-ended comments.

- Responses to the open-ended questions that were not easily coded into the categories that appear in the tables and charts.
- Responses to questions for which respondents chose an “Other” response and were asked to type an answer.
- Comments made at the end of the survey

For the first two categories above, responses given by more than one person may be grouped together, while others represent a single individual. For all three types of comments, those that were irrelevant or nonresponsive have been removed.

### 2a. What do you think is the most important environmental problem facing Alabama today? (open-ended)

- ADEM should stop protecting beach mice. The cotton rat population control is more important. People are more important than rodents.
- Alabama Power Company
- Air conditioning
- Bugs
- Business regulations
- Cleanup
- Coal use/coal mining
- Dirty N-side area
- Few parks
- Gas
- Highway maintenance/road conditions
- Lack of interest
- Oil rigs
- Pollen
- Quarries
- Trust
- Utility costs
- Wild hogs

### 2b. Most important environmental problems facing Alabama today – Other (select 3 from list provided)

- Politics
- Farm chemicals
- Fires
- Loss of breeding areas on the coast
- Lack of recycling
- Quarries
- Solar
- Stagnant water drawing mosquitoes and other pests
- Weather emergencies

### 5a. What do you think is the biggest source of water pollution in Alabama today? (open-ended)

- Accidents
- Acid rain
- Alabama Power
- Autos
- Bacteria/bacteria in river water

- Bees
- Cans
- Cleansing/improper cleaning
- Coal/Coal mining
- Construction
- Erosion
- Filtering/Filtration
- Lakes and runoff from developing projects
- Mercaptan
- Paper
- Government letting corporations do what they want
- Runoff (urban water runoff, waste runoff)
- Sewage/sewage runoff
- Tap water/city water
- Upriver states

5b. Biggest sources of water pollution in Alabama today – Other (select 3 from list provided)

- Arsenal burial grounds
- BP oil spill
- Old piping
- Upstream pollution

8a. What do you think is the biggest source of air pollution in Alabama today? (open-ended)

- Agricultural fertilizers and pesticides are in the air we breathe
- Chemicals
- Cows
- Deforestation
- Emissions/CO2 emissions
- Fires
- Gases
- Illegal waste
- Dense humid weather that makes it hard to breathe
- Lack of concern
- Misuse of sanitation
- Overcrowding/population growth
- Ozone deterioration
- Plastic
- Smoke
- Trash/Waste

8b. Biggest sources of air pollution in Alabama today – Other (select 3 from list provided)

- Agriculture
- Animals
- Pesticides
- Pollen

15. What should be the major objective when a violation of environmental regulations is discovered at an industry or business – Other

- Most of the “Other” responses indicated that BOTH a quick correction of the problem and a fine should occur.
- Additional responses included:
  - Determination of intent – malicious or lack of knowledge
  - Deterring future infractions/ensuring it is not repeated

24. Other comments?

- Thank you for caring
- I enjoyed this survey glad to know people actually care about these problems here
- I grew up and live near Birmingham. Industrial pollution has always been a problem here. There are Superfund sites here that are not being dealt with. Although air pollution has improved in my lifetime, we could and should be doing more to mitigate it. Loss of habitat is also a concern of mine.
- I believe Alabama needs a better recycling system
- I hope this study helps bring about change here.
- Former governor spent settlement for Deep Water Horizon building a hotel complex that nobody visits instead of using it to protect wetlands harmed by the oil spill. This is typical of Alabama's environmental protection "stance."
- I personally know of one incident where ADEM is slacking on their job. They need to stand with the public water utilities when they have a mandated Wellhead Protection Area and they need to not take the easy way; will just have to wait and see if it affects the area and THEN you can sue once the water is contaminated or affected. I have worked at the same public water utility for almost 34 years now and I know what I am talking about. That is ridiculous! We have a perfectly good spring where we purchase water and it has a ADEM mandated wellhead protection area but when a large company like Wiregrass goes in and doesn't even bother to check out the meaning of WELLHEAD PROTECTED AREA and goes right on through not even bothering to get a required permit from ADEM it doesn't seem to concern ADEM. Depends on who you are.
- With the teeth gone from the EPA, how can a state enforce their own laws? I'm glad there is at least a survey about the environment--it shows that someone is thinking about it. Thank you.
- Alabama Power and Coal Ash pools need to be more closely regulated.
- People dumping trash on land and in water needs most attention. Air is good, now need to keep green/forest to offset industry.
- I'm concerned about the environment and do all I can to recycle and avoid littering in any way.
- The government can do better.
- Glad to have opportunity to take this survey!
- We need more enforcement of the laws we have. There are many old closed manufacturing plants of various types that were/are ground zero for large polluted areas and the owners received slaps on their wrists.
- Alabama has a bad rate of recycling. In my town of Winfield they REFUSE to recycle. All glass, plastic, aluminum, paper should be all recycled. All they recycle is pop cans, newspaper and food cans. All kinds of glass and plastics are on the road as these folks are too lazy to recycle.
- I think you assumed that I have lived in Alabama most of my life. I have actually only lived here a few years.
- I am retired middle manager with a forestland corporation that owned over 250,000 acres of forestlands across Alabama, Louisiana & Mississippi. I worked for this Company 38 years. My experiences and observations give me a lot of insight into some of the major environmental issues.
- Very poorly worded answer selections
- I love Alabama
- More emphasis on recycling and clean energy such as solar and wind would help the quality of everything
- Could be better more family oriented concerns, make livable for all people, make Alabama more to where people want to visit, me I'll be moving back home to Florida, born here but hate it here.
- Thanks. Hopefully this survey helps all of us in AL.
- I enjoyed taking this survey.
- Regulations are unpopular in the political atmosphere in Alabama.
- Alabama politicians are and have always been the people's problem.
- Don't mess up the state with restrictive regulations.

- I am a newer resident of Alabama having moved here in 2017 to be near family who have lived here for 40 years
- There is currently an issue where the 3M company is claimed to be polluting the drinking water here in Northern Alabama. The state and county are accused of doing nothing.
- I think all chemical plants should have filters on them.
- Local water providers publish their award winning statistics, but cover up their water contamination with dirt, iron, debris by not doing quality checks concurrent with line failures and equipment malfunctions.....they are nice people who try hard but are under-funded and so accustomed to acceptance of mediocrity they don't really want to actually provide world class water service.
- I would love to see the human waste from other states stopped from being brought in to Alabama. We had a huge issue when it was brought into Parrish on trains from New York a few months ago and Alabama deserves better than that. Each state needs to dispose of their own waste!!!