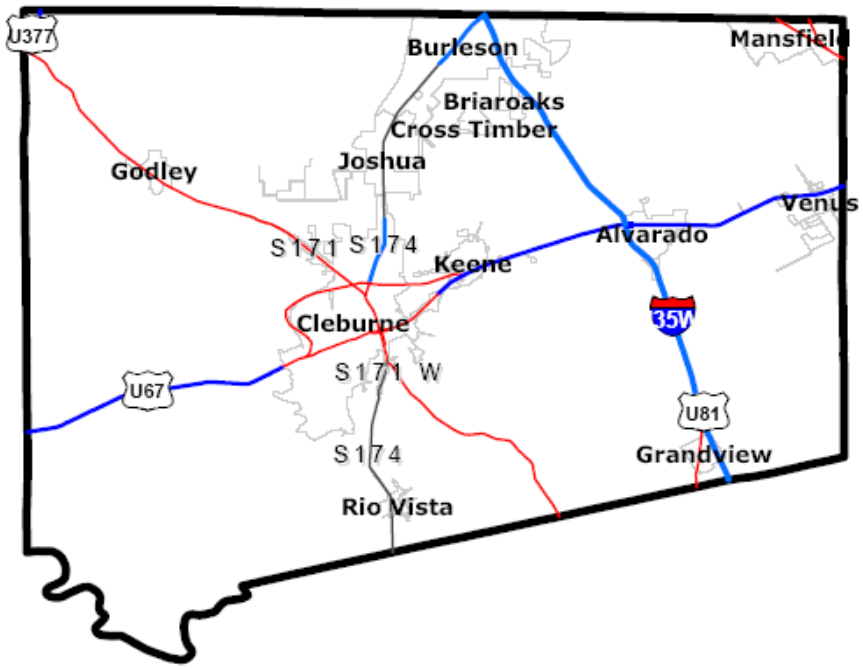
Quality of Life and Energy Production in Johnson County, Texas: An Illustrative Summary



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Acknowledgements

Support for this research was provided by the Renewable Resources Extension Act.

I wish to express my gratitude to the citizens of Johnson County, Texas. I also want to extend a special thanks to Brooklynn Anderson who provided invaluable technical assistance while collecting, coding, cleaning, and entering the survey data.

Table of Contents

Introduction

This document provides an illustrative summary of the results obtained from a 2006 general population survey of individuals in Johnson County, Texas.

The purpose of this document is to provide insights into the current social impacts associated with the exploration and production of natural gas in Johnson County, Texas. Moreover, attitudes and behaviors of the citizens of Johnson County, as well as information on selected individual-level characteristics are presented. Figures and tables are used to simplify presentation of the data. No conclusions or inferences are made. County leaders and members of the general public interested in statistical analyses and more detailed information should contact Dr. Gene L. Theodori at:

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Methodology

During the late spring and early summer of 2006, a survey questionnaire was mailed to a randomly selected sample of 800 households in Johnson County, Texas. A cover letter explaining the purpose of the study and an addressed postage-paid return envelope accompanied the questionnaire.

To obtain a representative sample of individuals within residences, we stated in the cover letter that the questionnaire was to be completed by the adult in the household who celebrated his or her birthday most recently.

Approximately three weeks after the initial mailing, a reminder postcard was mailed to each sampled household that had not yet completed and returned the questionnaire. One week later a second wave of surveys was mailed. Then, approximately three weeks after the second mailing, a third and final wave was mailed.

The survey instrument, organized as a self-completion booklet, contained 42 questions and required approximately 60 minutes to complete. After three mailings, we received completed surveys from 301 individuals.

Section I

Individual-Level Characteristics

Figures 1 through 15 summarize selected individual-level traits of the survey respondents. Included here are characteristics such as gender, age, marital status, ethnicity, level of education, employment status, household income, home ownership, length of residence in the county, land ownership, and mineral rights ownership.

Figure 1

Gender

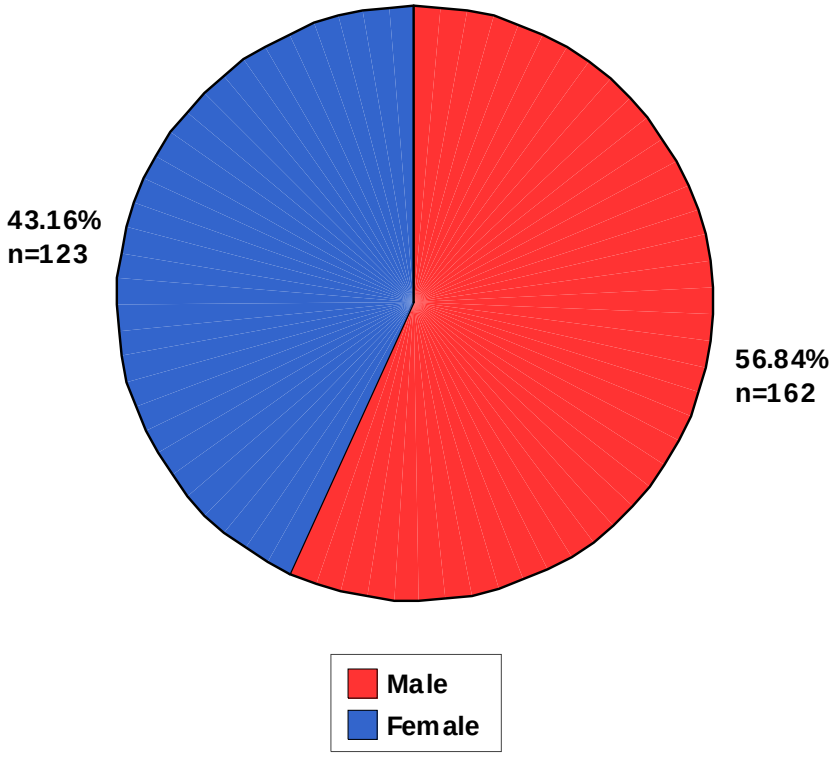


Figure 2

Age

(n = 282)

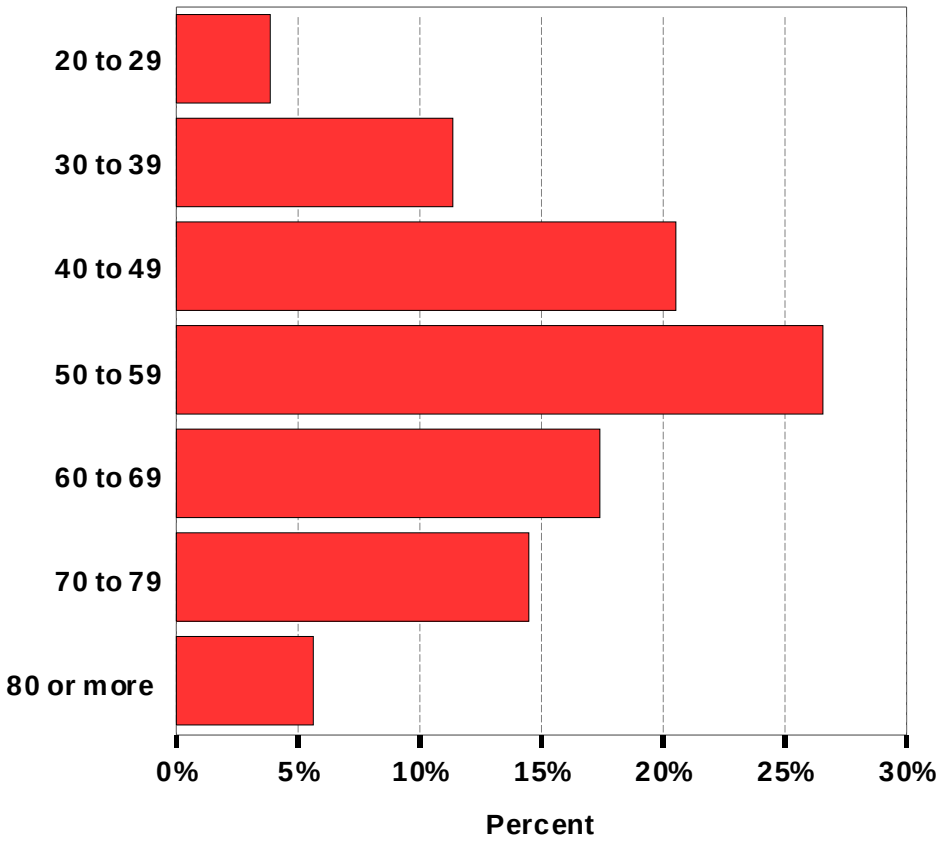


Figure 3

Marital status

(n = 289)

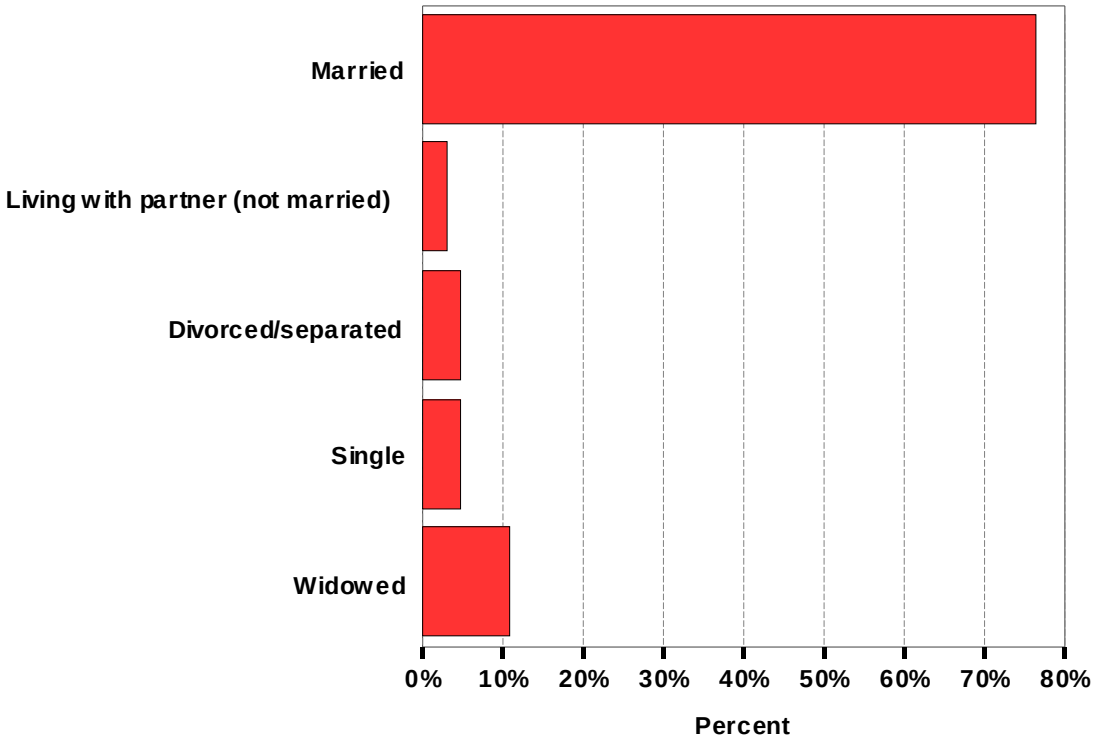


Figure 4

Ethnicity

(n = 280)

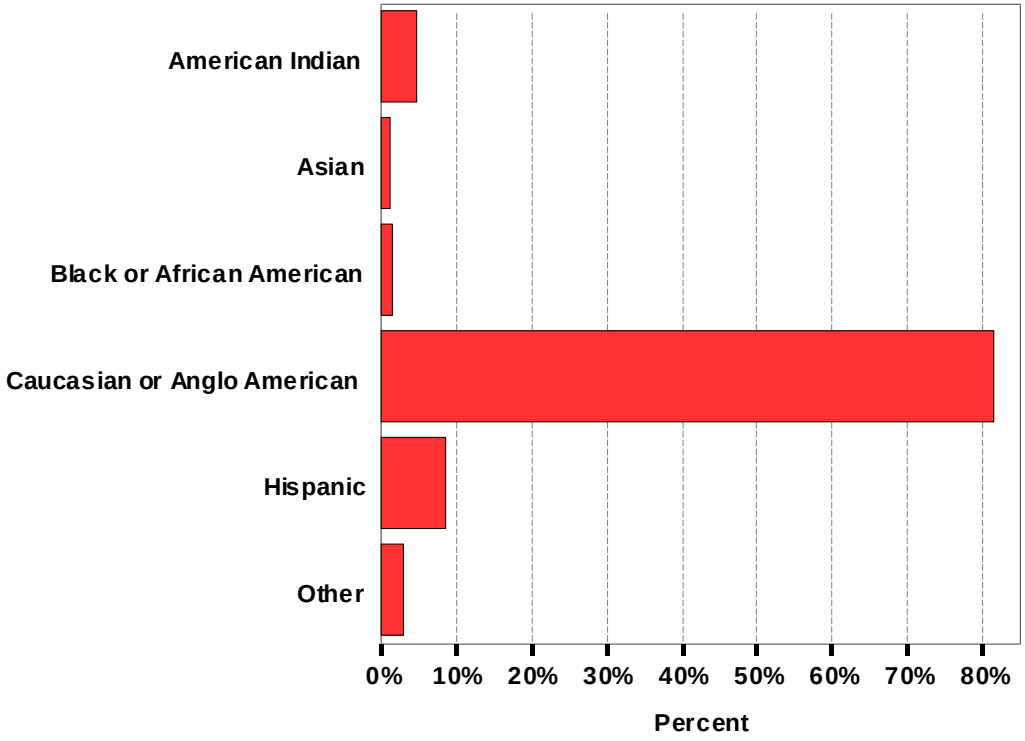


Figure 5

Level of education

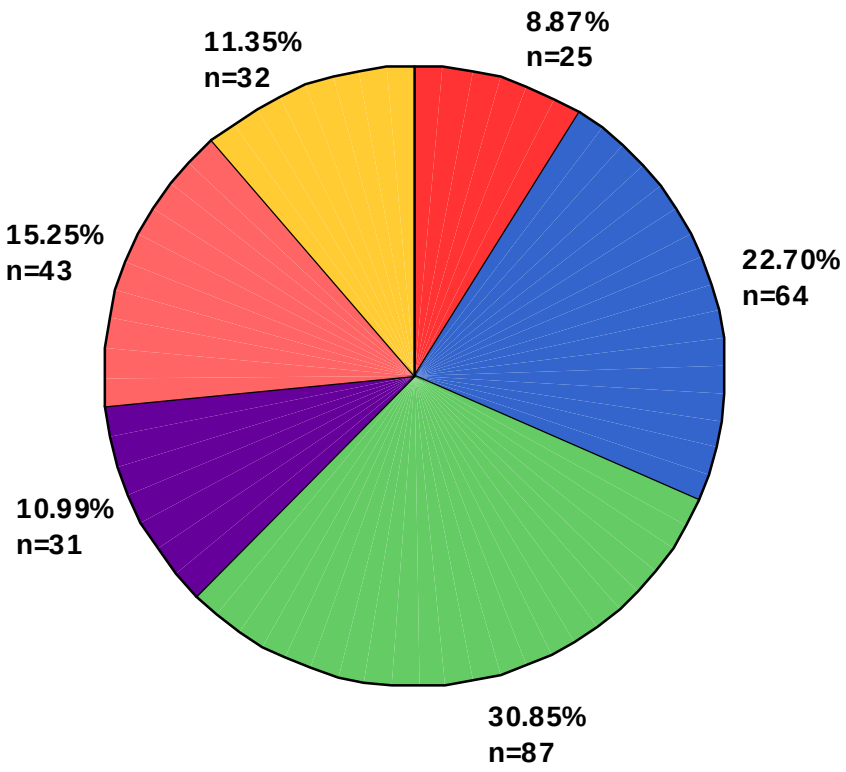


Figure 6

Employment status

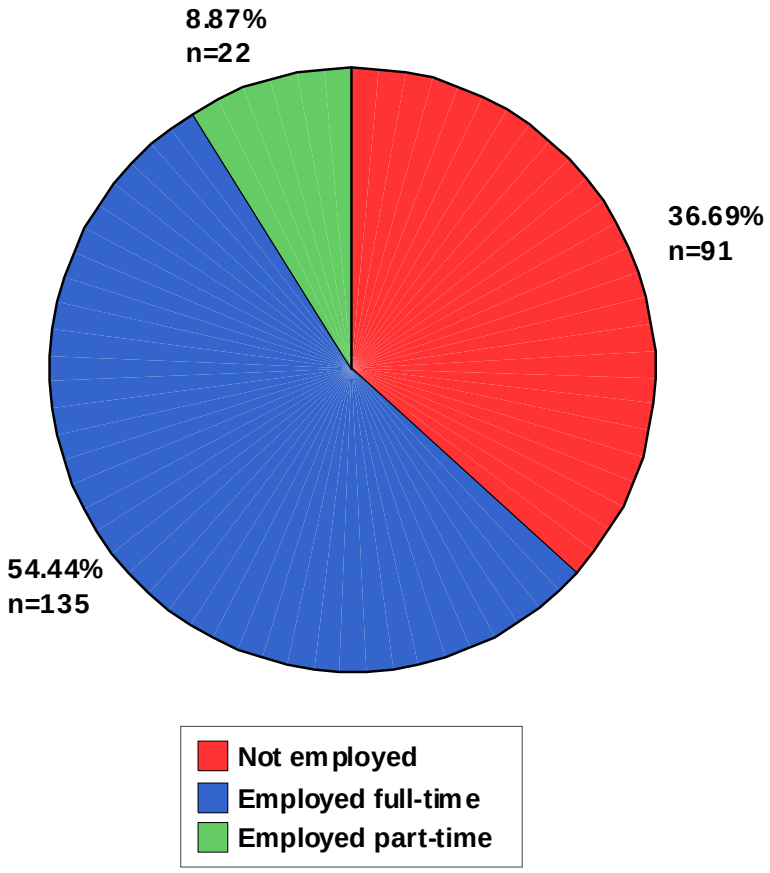


Figure 7

Employed (part-time or full-time) in an occupation related to the natural gas industry

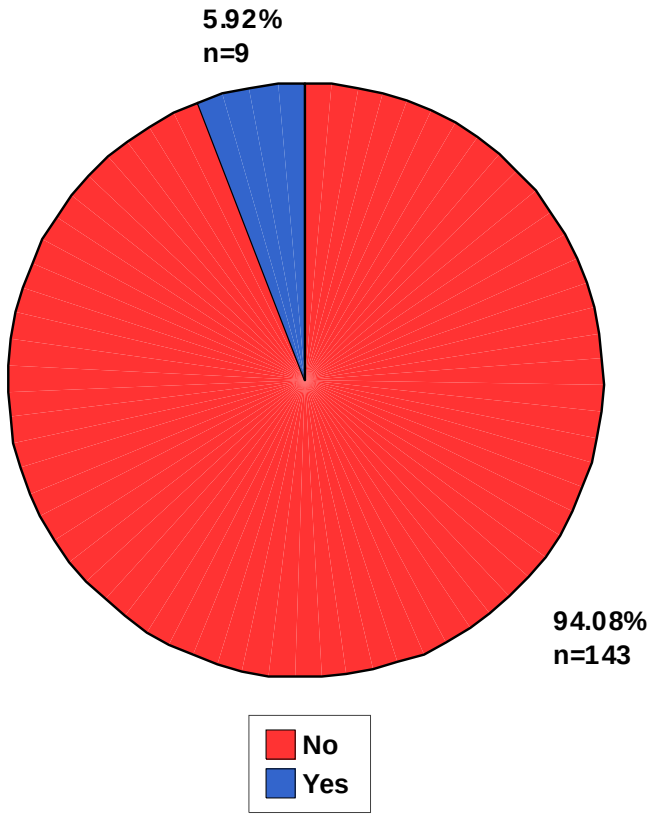


Figure 8

2005 household income

(n = 266)

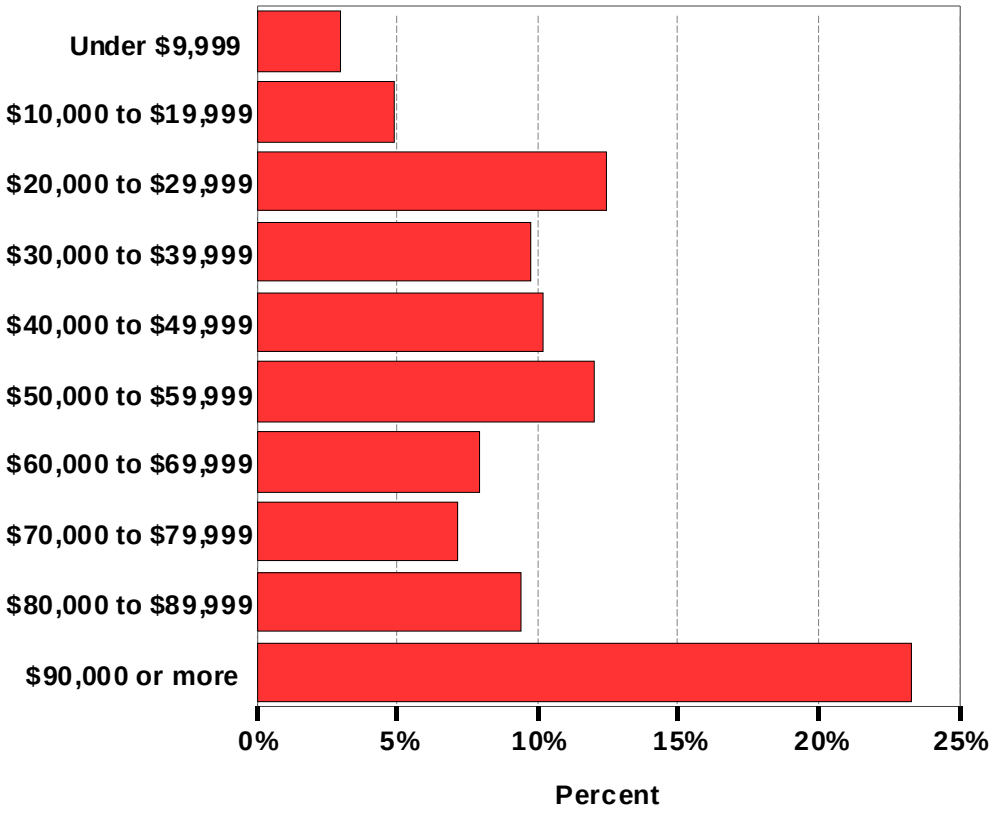


Figure 9

Home ownership in Johnson County

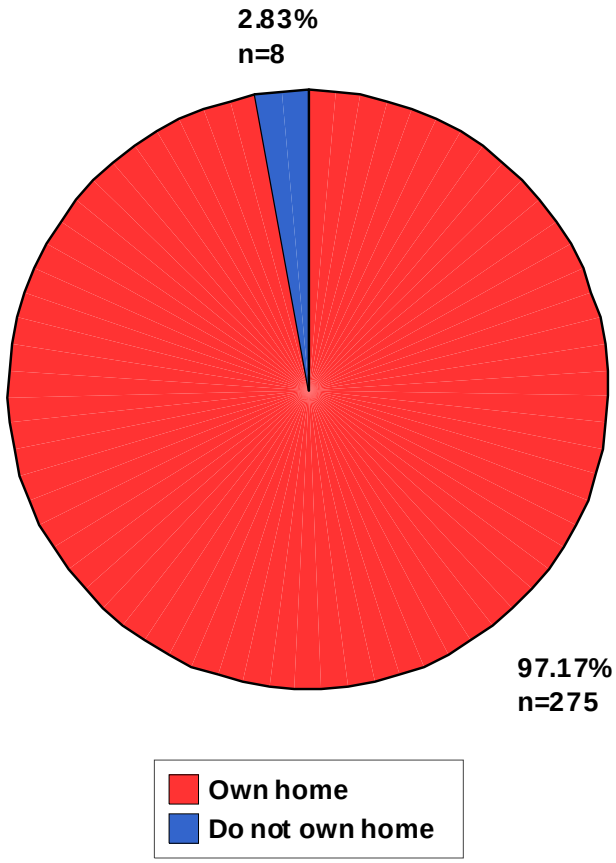


Figure 10

Length of residence in the county

(n = 295)

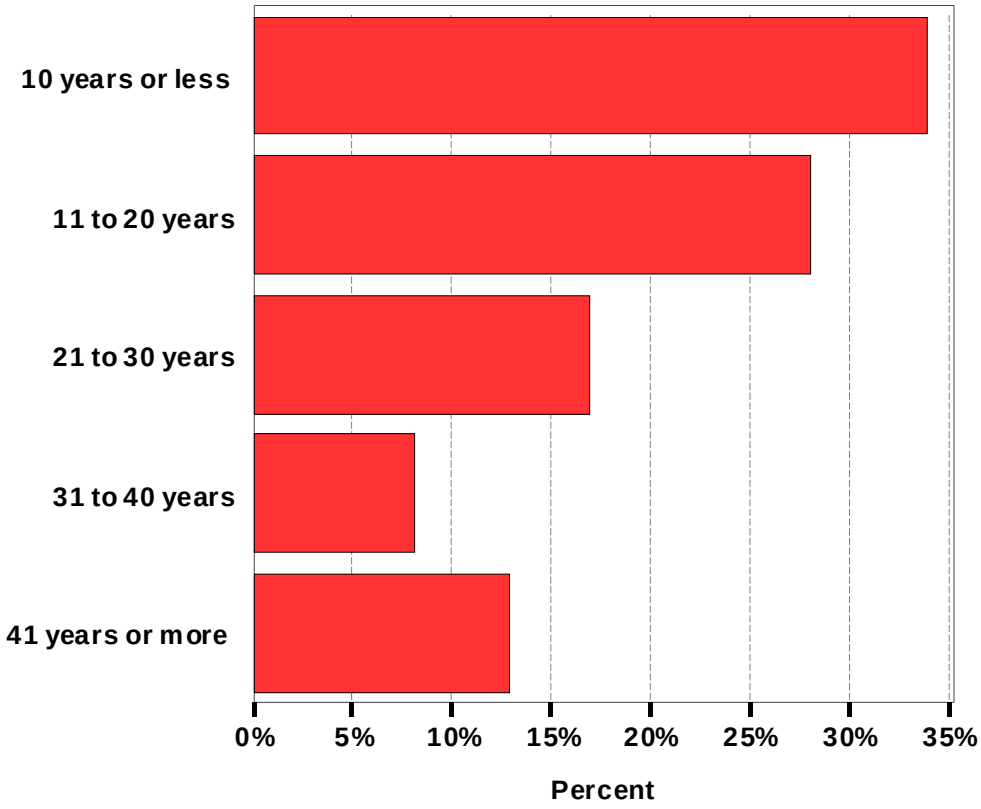


Figure 11

Life-long resident of the county

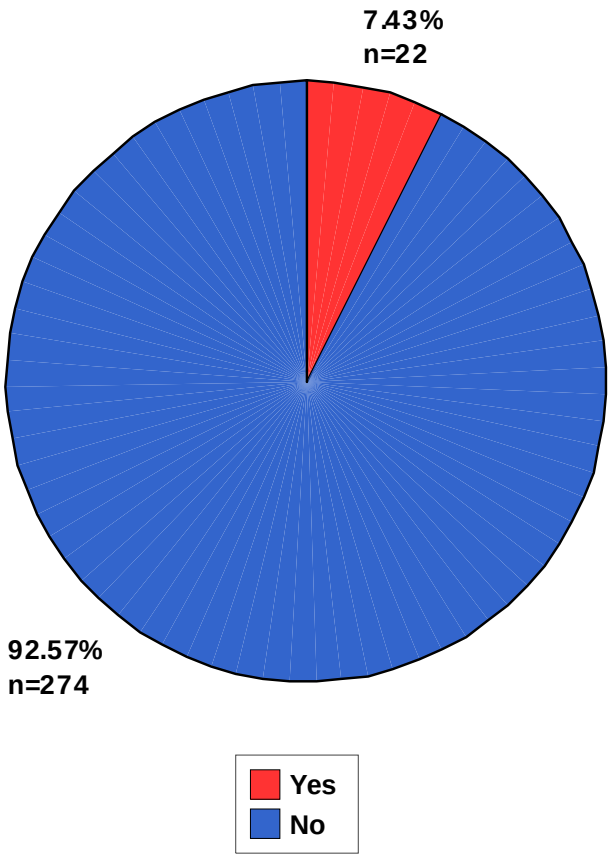


Figure 12

Land ownership in Johnson County

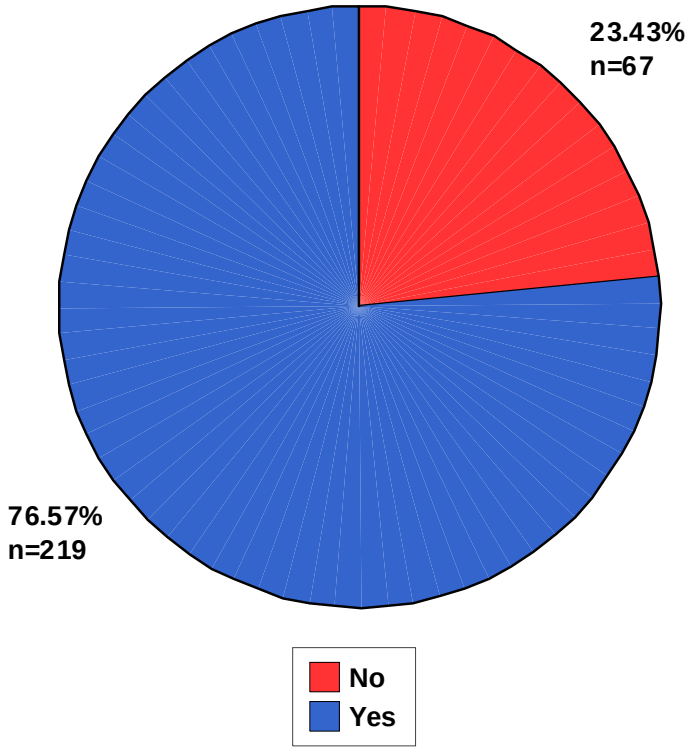


Figure 13

Ownership of mineral rights with land owned in Johnson County

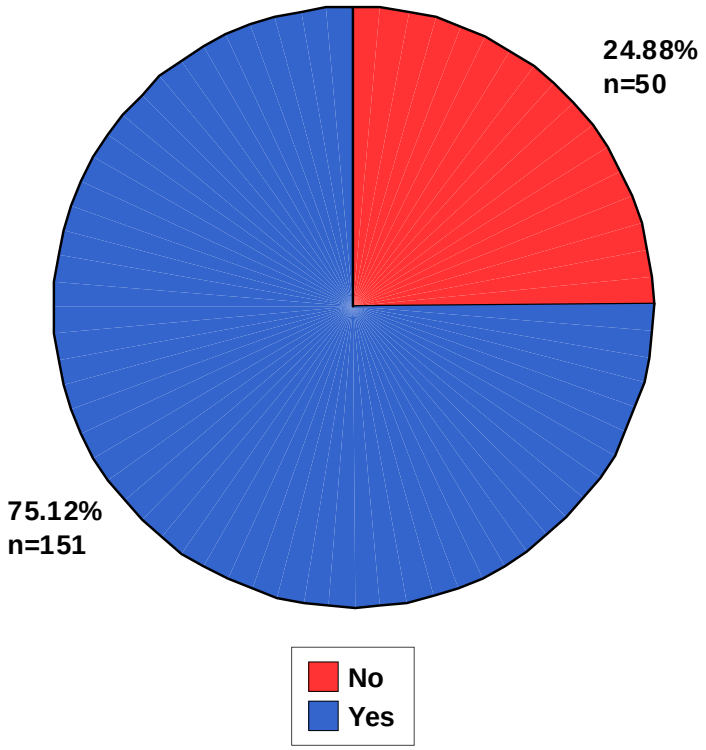


Figure 14

Land currently being leased to gas industry operators by landowners who OWN mineral rights

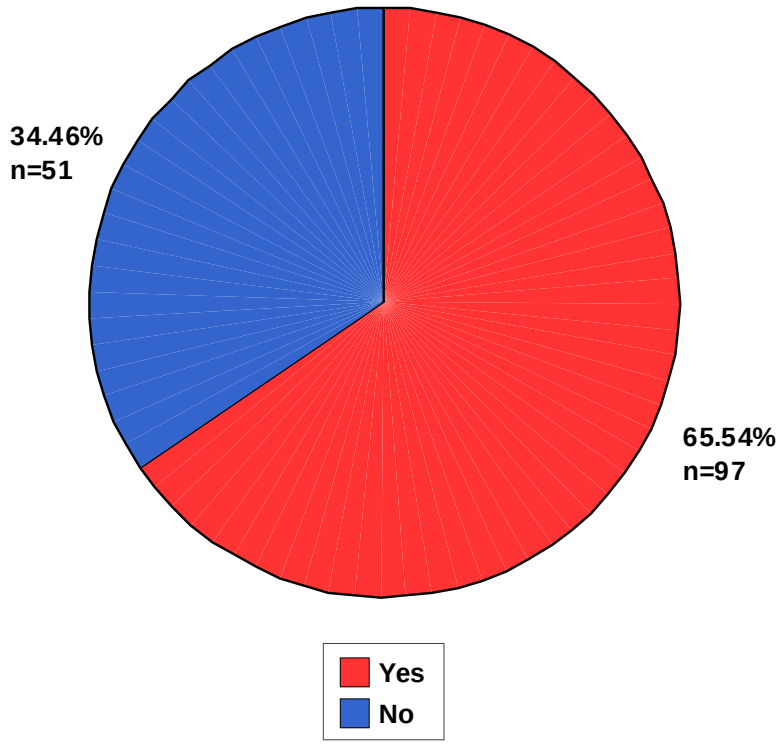
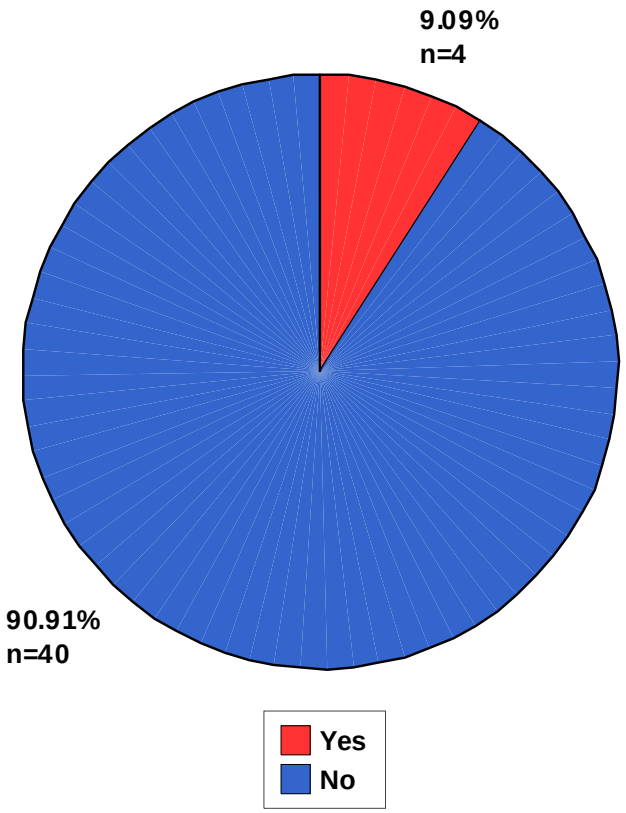


Figure 15

Land currently being leased to gas industry operators by landowners who DO NOT OWN mineral rights



Section II

Quality of Life

Figures 16 through 19 illustrate residents' perception of the overall quality of life in Johnson County. Included here are past and present-day ratings of the quality of life, as well as the perceived effect on quality of life from the large-scale exploration and production of natural gas. In addition, residents' likelihood of moving away from Johnson County in the near future is summarized.

Figure 16

Overall, how would you rate the quality of life in Johnson County today?
(n = 296)

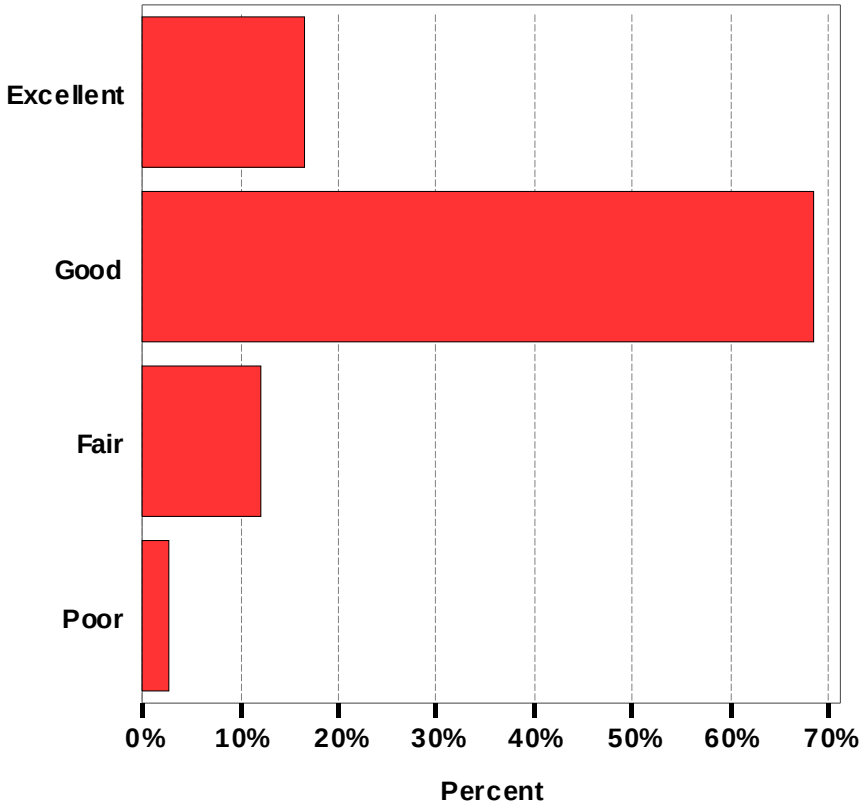


Figure 17

Effects of exploration and production of natural gas in Johnson County on quality of life

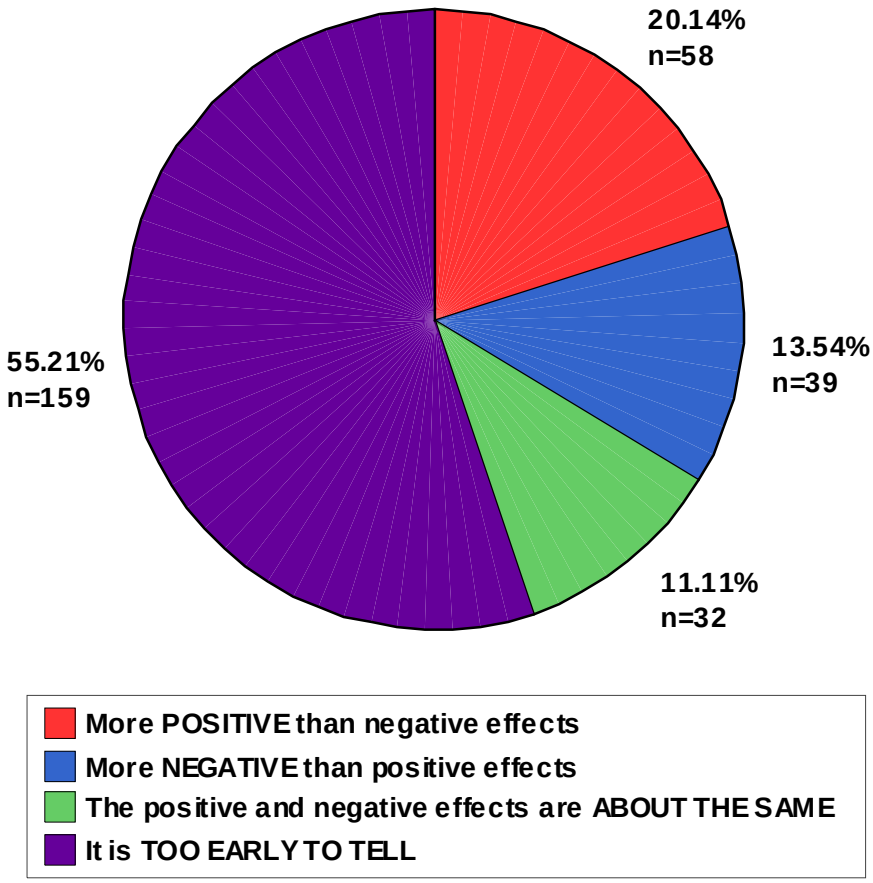


Figure 18

How would you rate the quality of life in Johnson County BEFORE the large-scale exploration and production of natural gas began?

(n = 282)

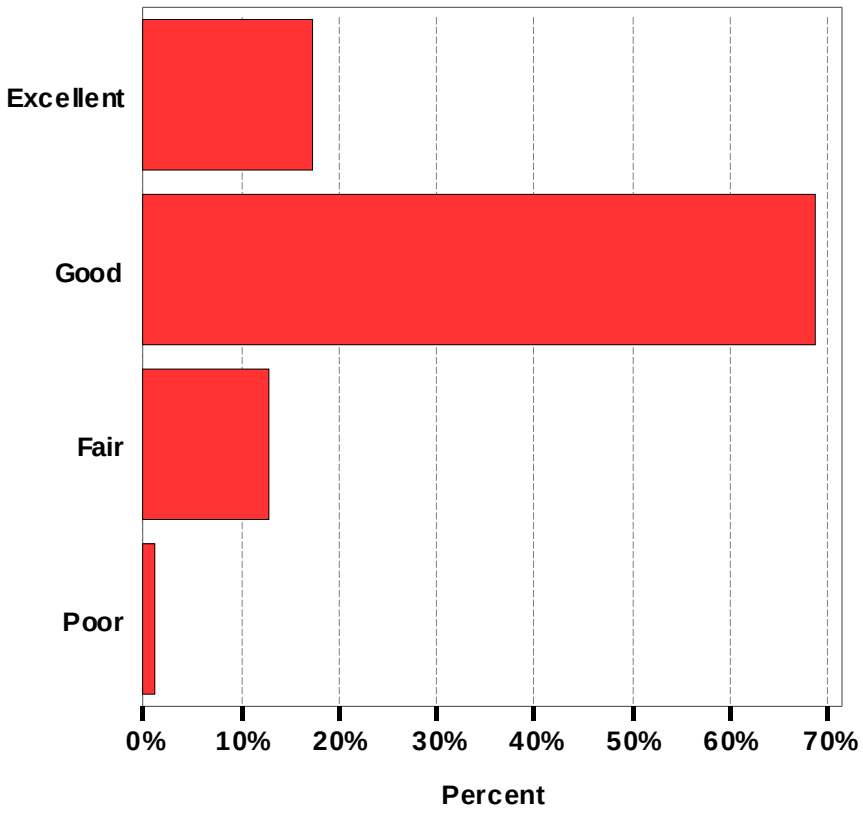
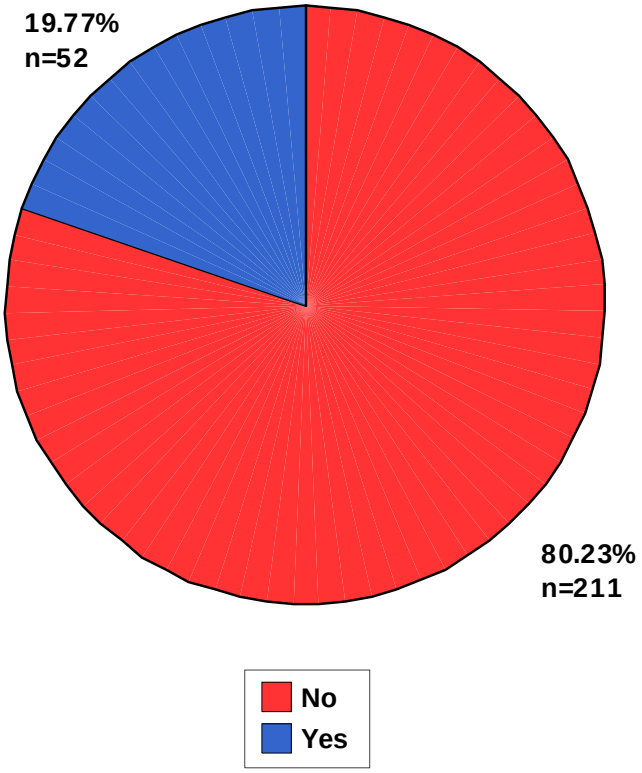


Figure 19

Is it likely that you might move away from Johnson County within in the next 5 years?



Section III

Attitudes Toward the Exploration and Production of Natural Gas in Johnson County

Figures 20 through 38 summarize residents' attitudes toward the production and exploration of natural gas in Johnson County.

Figure 20

The natural gas industry is important to the local economy.

(n = 289)

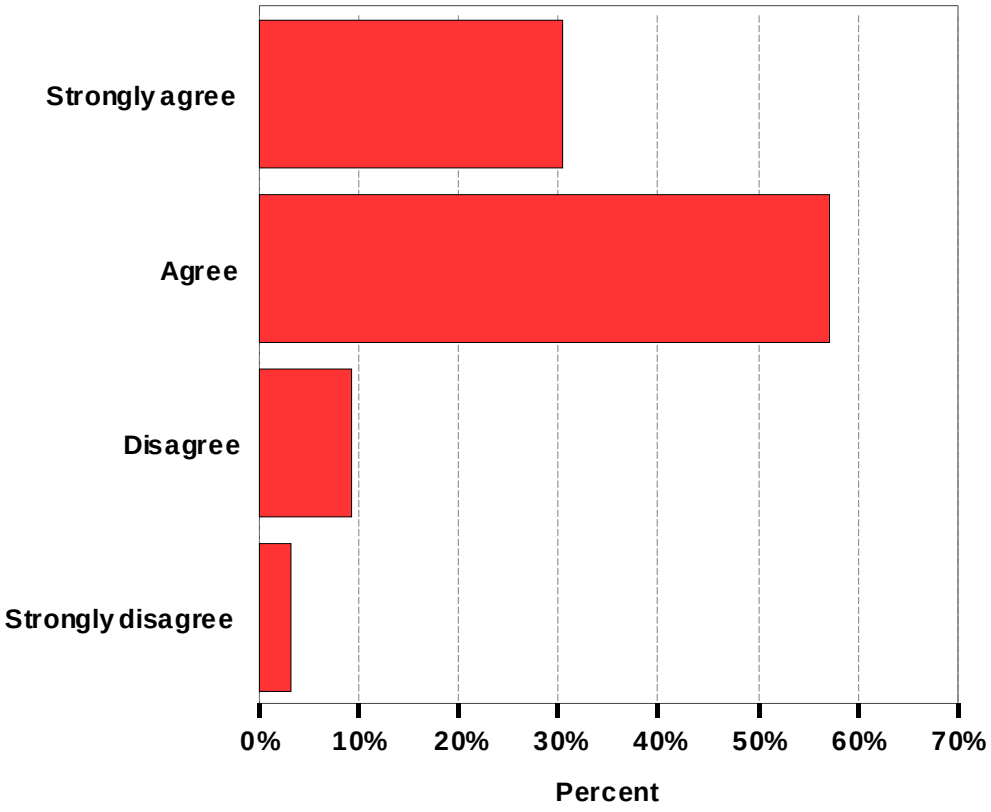


Figure 21

Natural gas industry operators in this area are too politically powerful.

(n = 266)

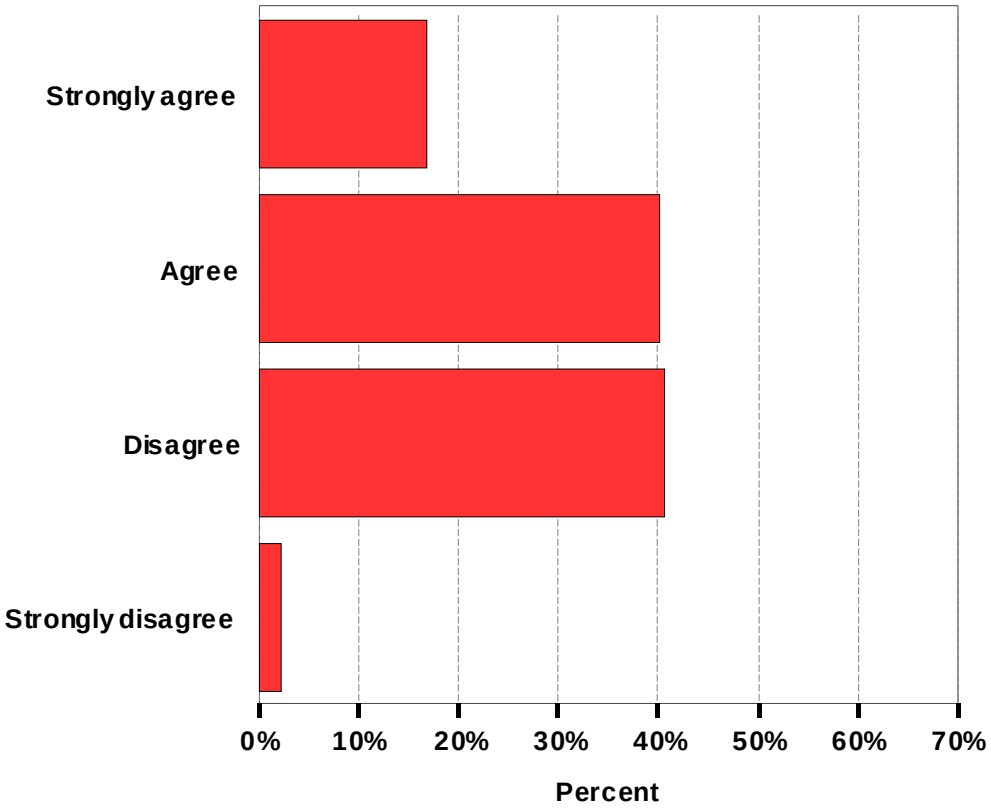


Figure 22

Decisions about natural gas-related development should be made solely on economic grounds.
(n = 281)

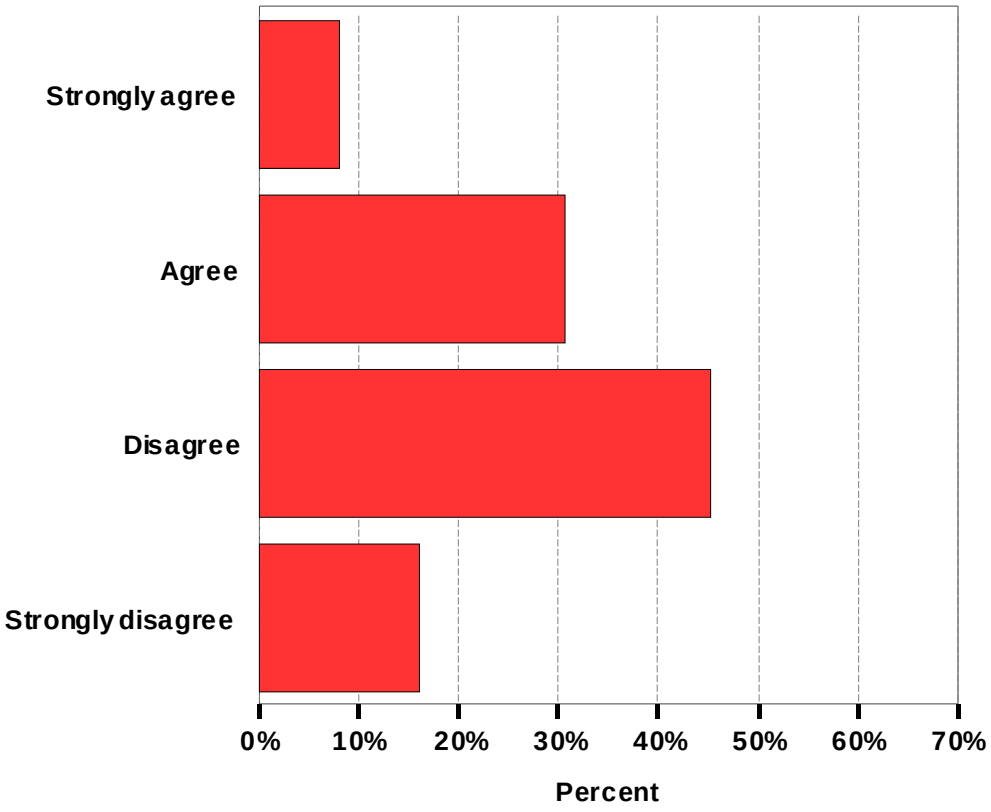


Figure 23

Not enough information concerning the development of natural gas is being made available to the general public.

(n = 289)

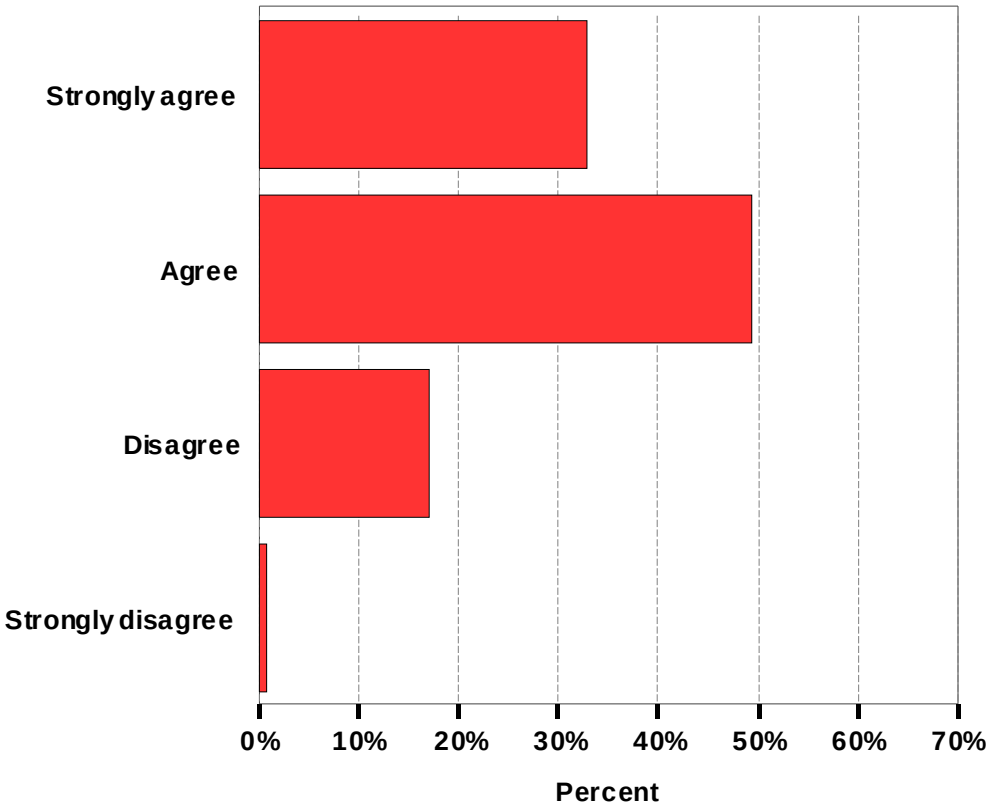


Figure 24

Even when carefully controlled, natural gas development is likely to upset the quality of life in a local area.

(n = 282)

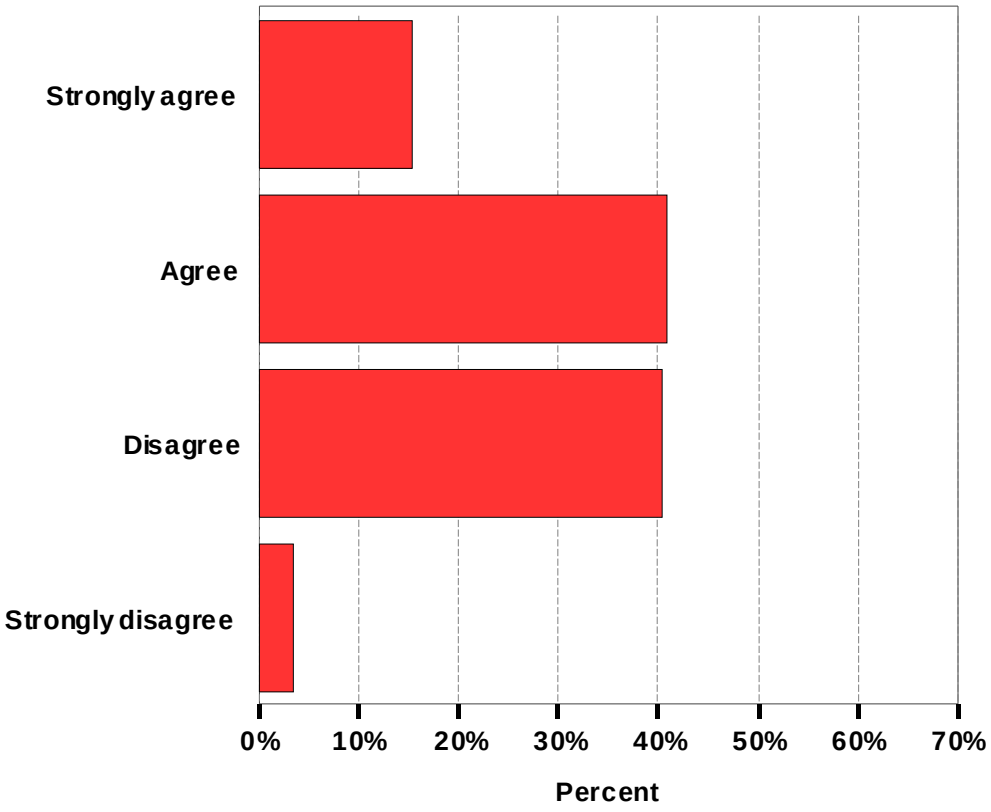


Figure 25

Too little attention is being paid to the social costs of natural gas development.
(n = 276)

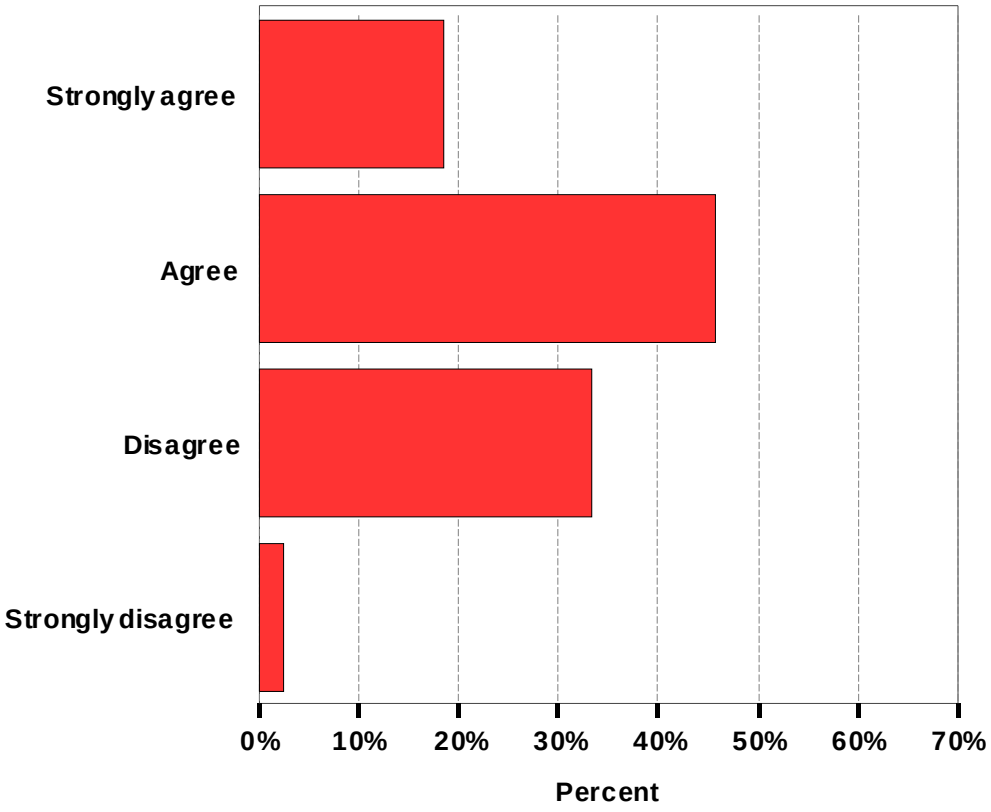


Figure 26

The natural gas companies have no compassion for our natural environment.
(n = 282)

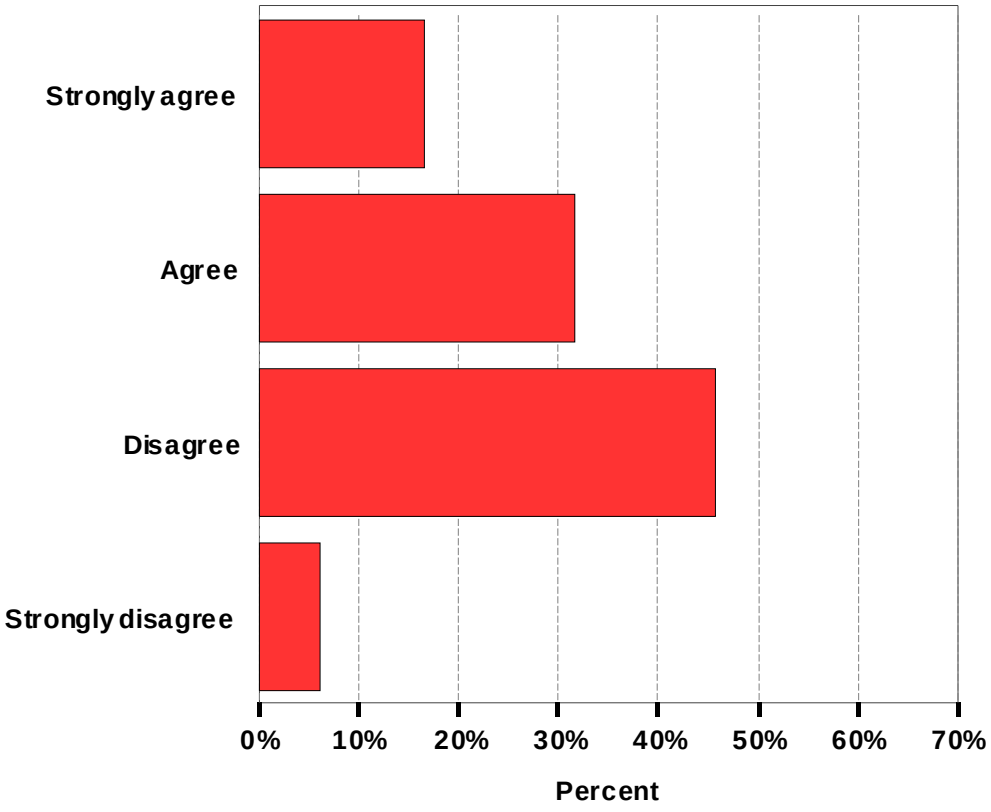


Figure 27

Because industries have to be competitive, it is unfair to expect them to tell the public about their plans.

(n = 293)

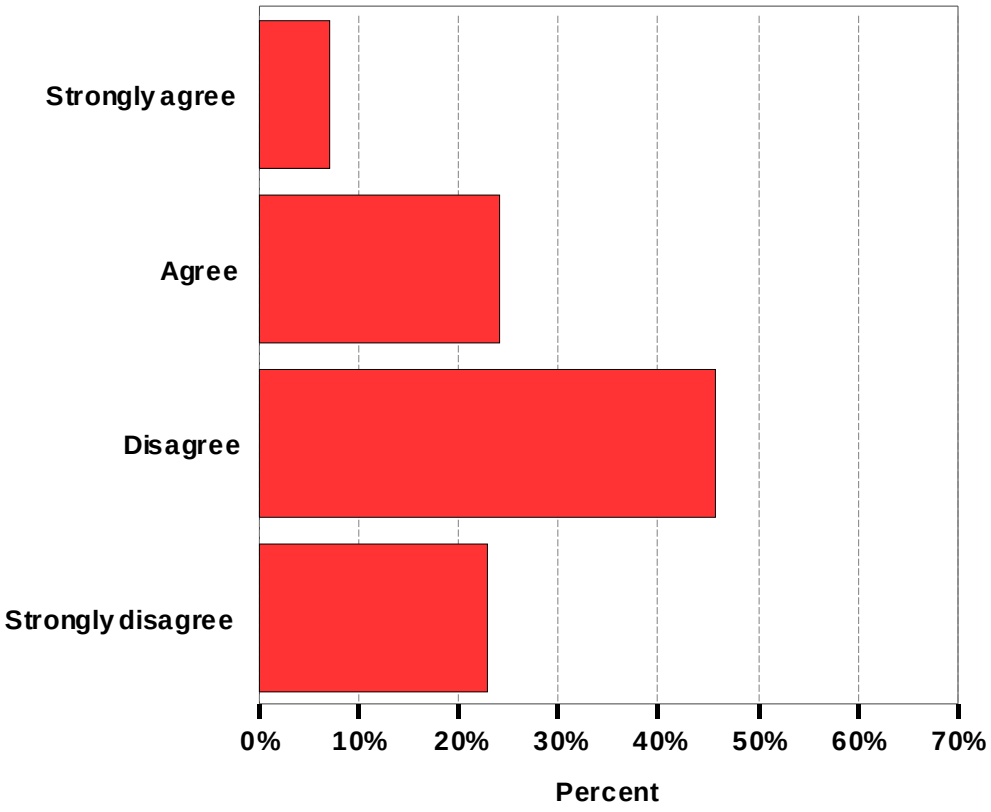


Figure 28

All in all, the benefits of natural gas development for this area are greater than the costs.
(n = 272)

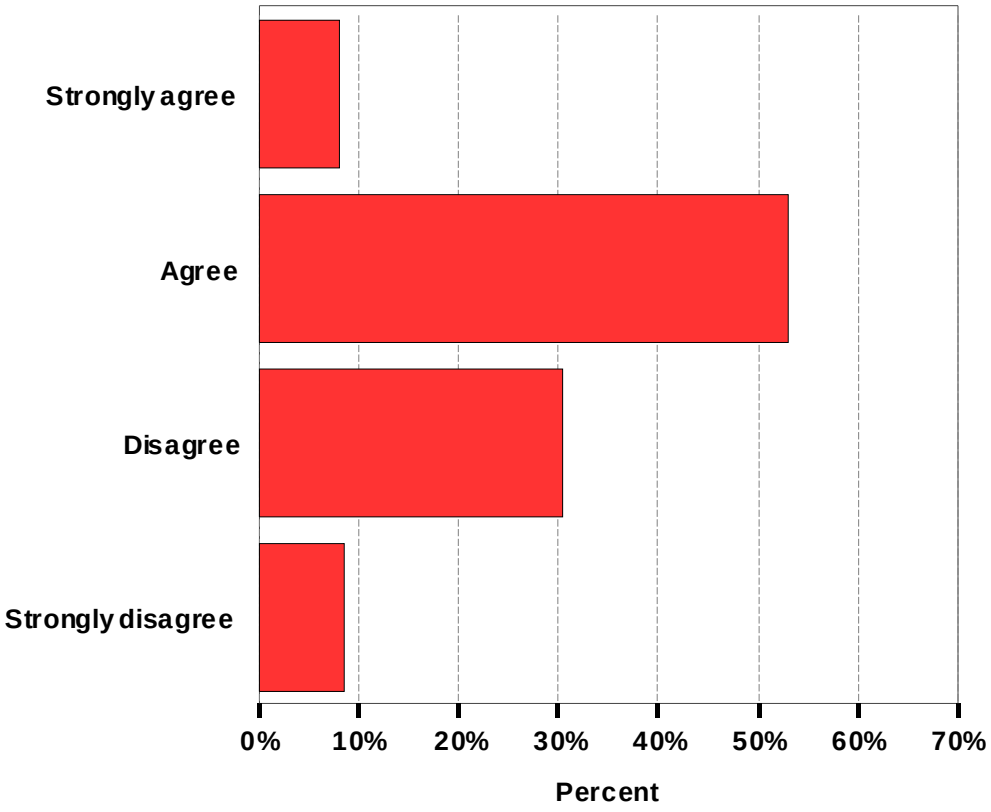


Figure 29

Decisions about natural gas development should be given to the effects on lifestyles and values of the people in this area.

(n = 284)

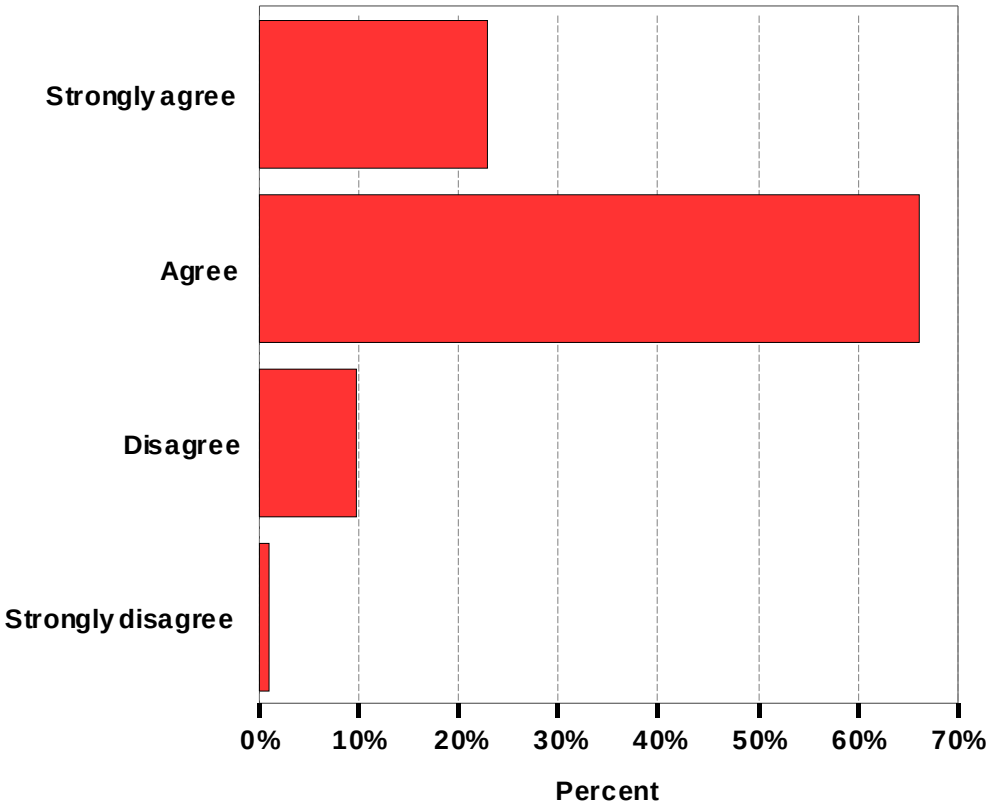


Figure 30

Natural gas operators MUST adopt and use more environmentally friendly drilling practices.
(n = 282)

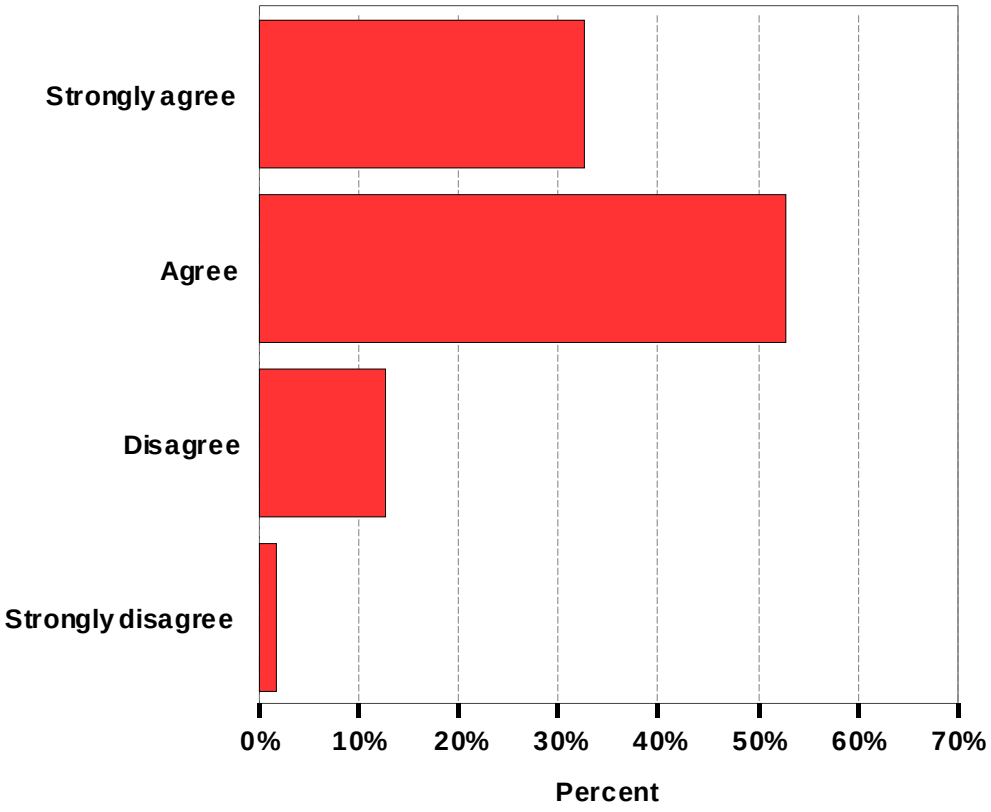


Figure 31

Natural gas companies will do only what's required by law.
(n = 282)

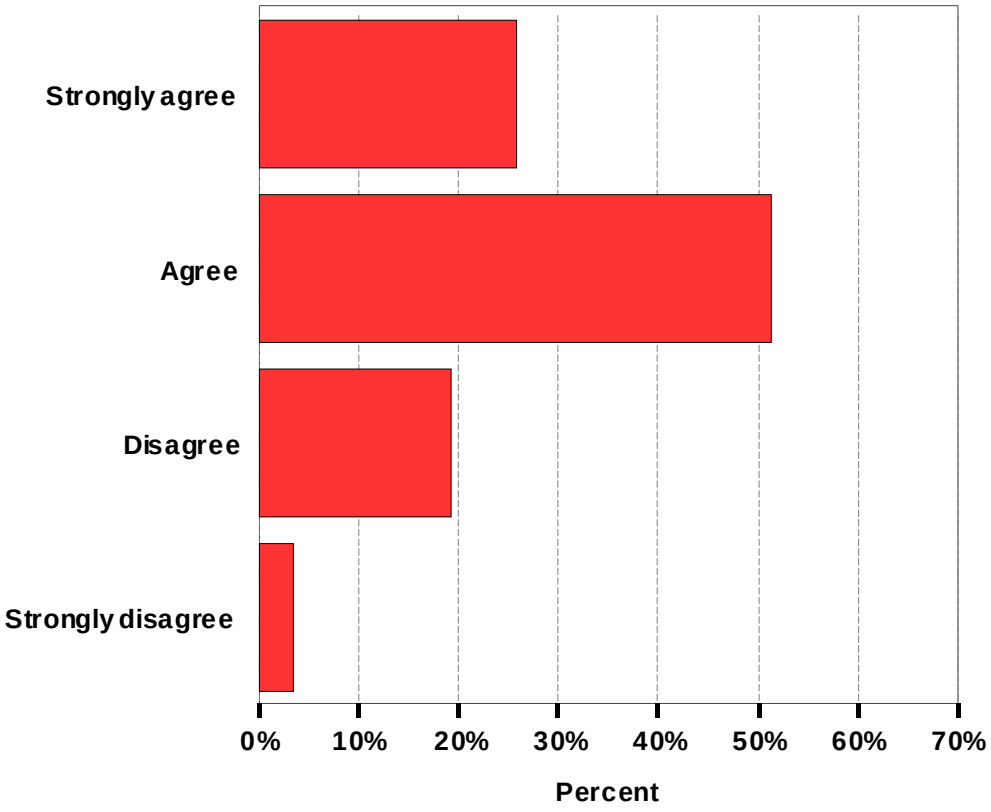


Figure 32

In the long run, I'm sure that people in this area will be better off if our natural gas resources are developed.

(n = 280)

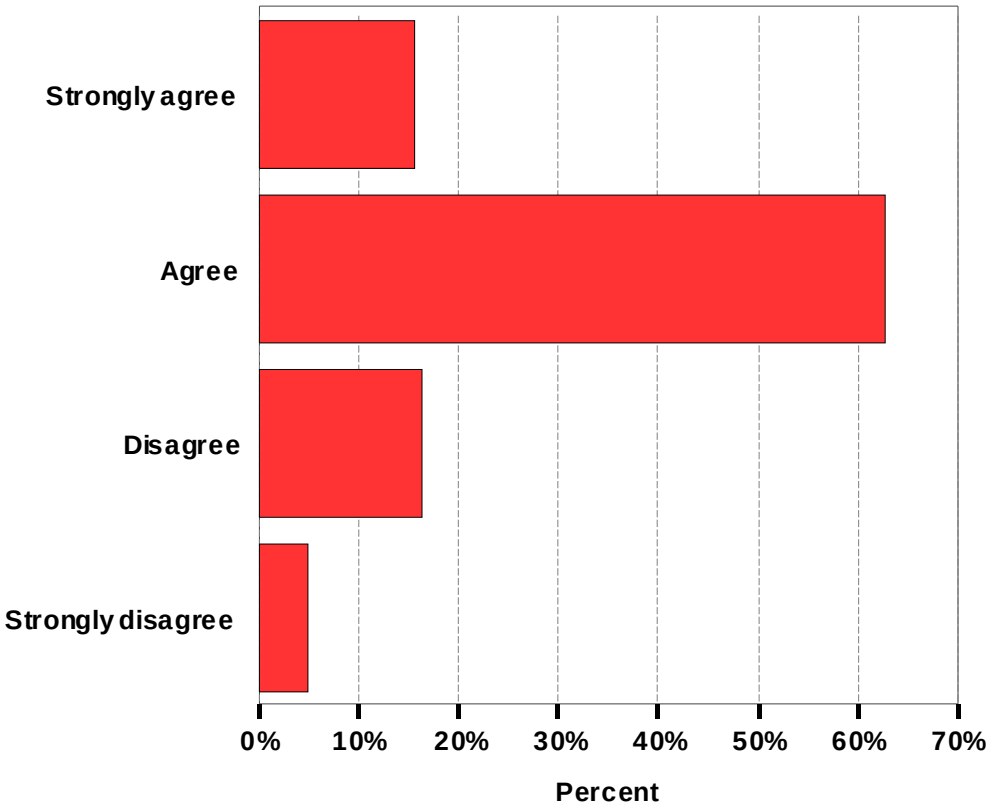


Figure 33

Natural gas operators are drilling and producing too close to homes and businesses.
(n = 274)

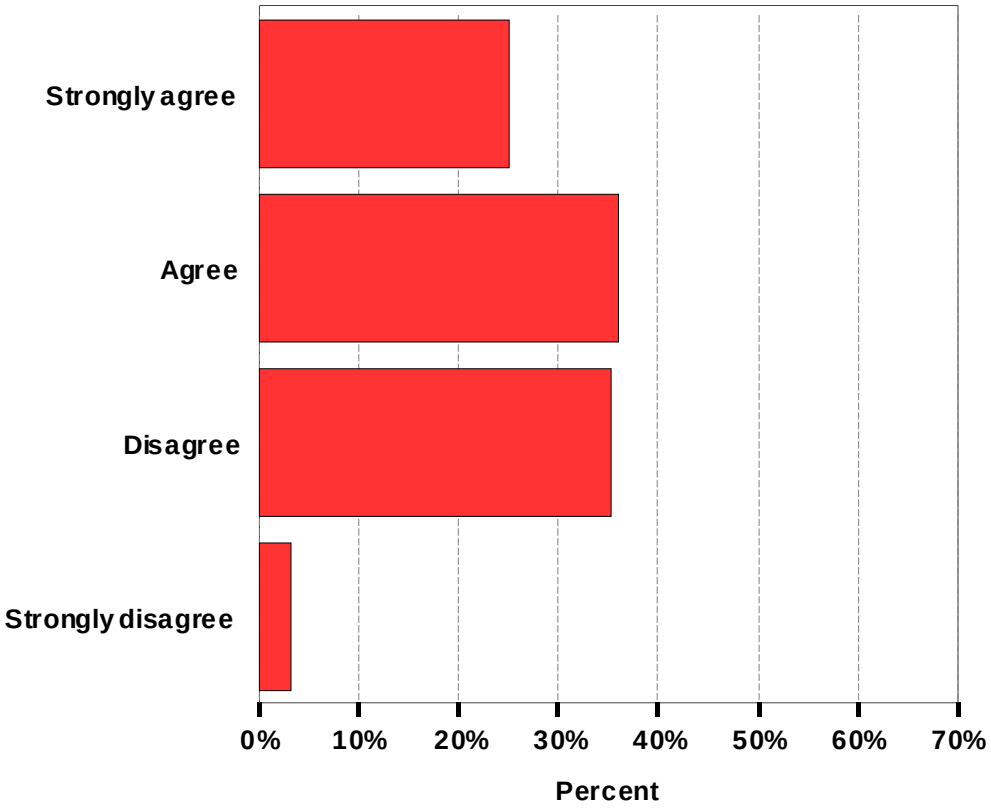


Figure 34

People who object to natural gas development in this area should move someplace else.
(n = 285)

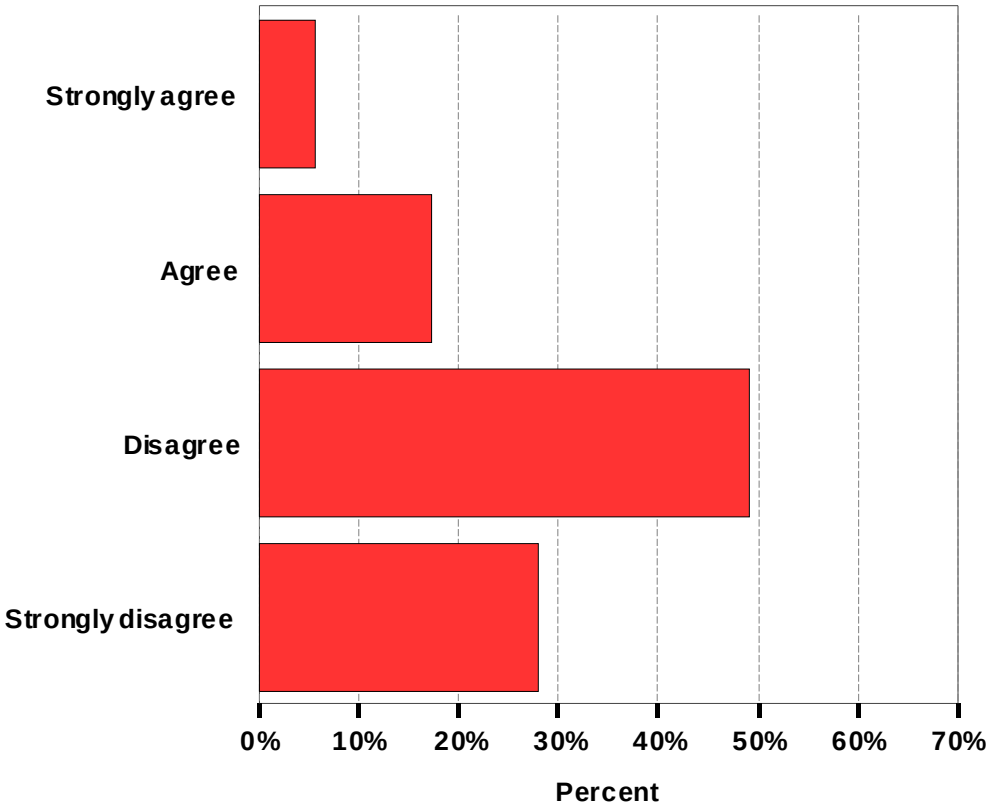


Figure 35

How do you feel about the drilling of more GAS WELLS in Johnson County?
(n = 288)

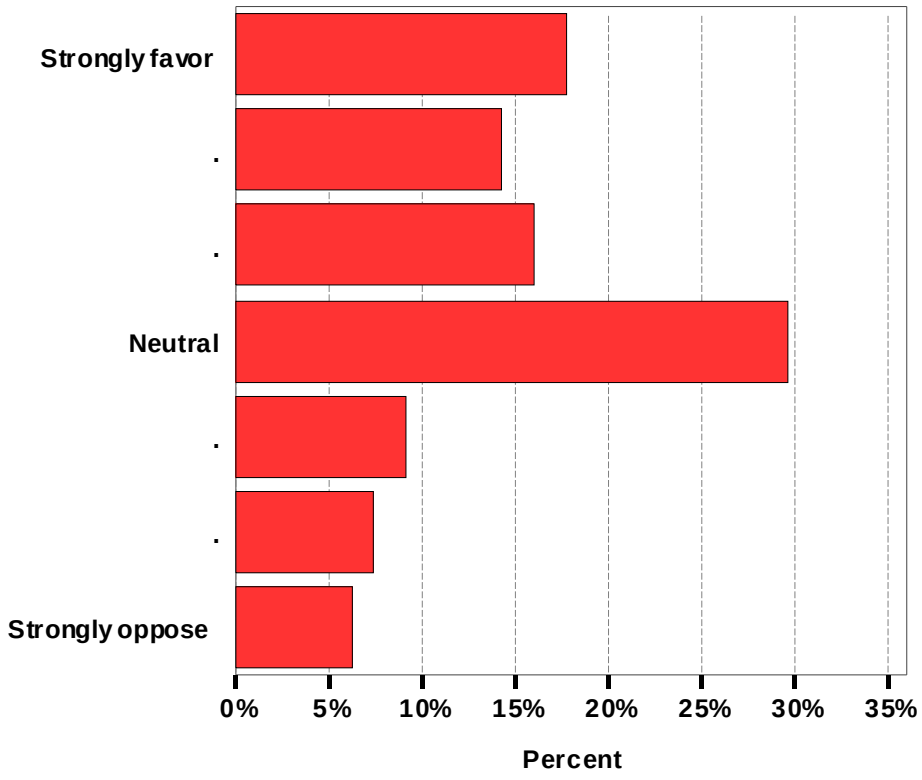


Figure 36

How do you feel about the drilling of more DISPOSAL WELLS in Johnson County?
(n = 279)

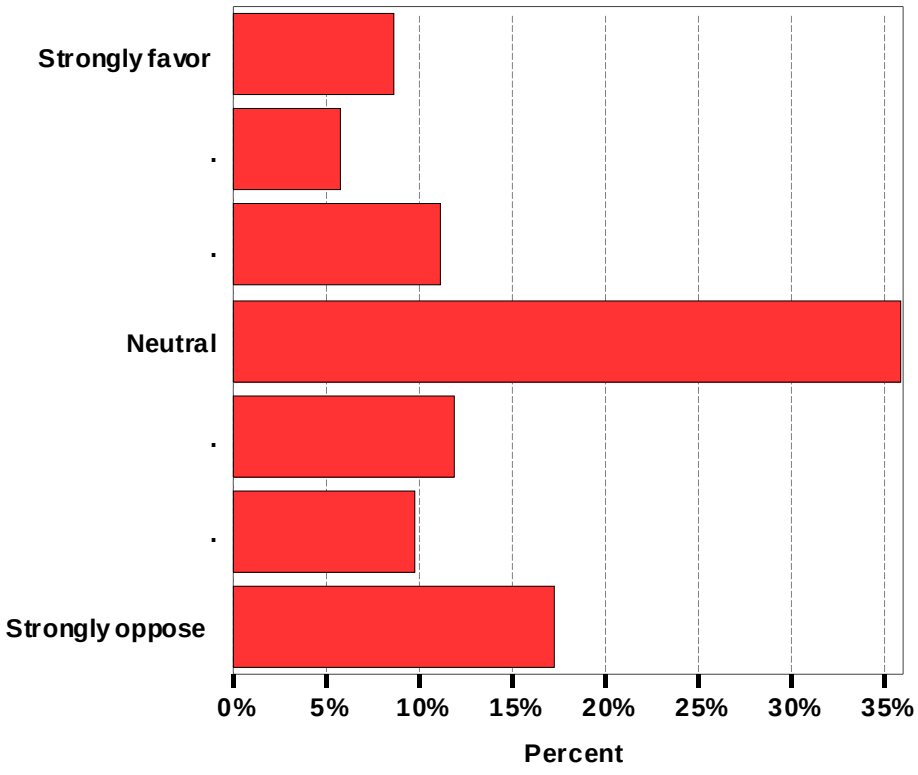


Figure 37

How do you feel about the drilling of WATER WELLS in Johnson County to provide water for the natural gas industry?
(n = 282)

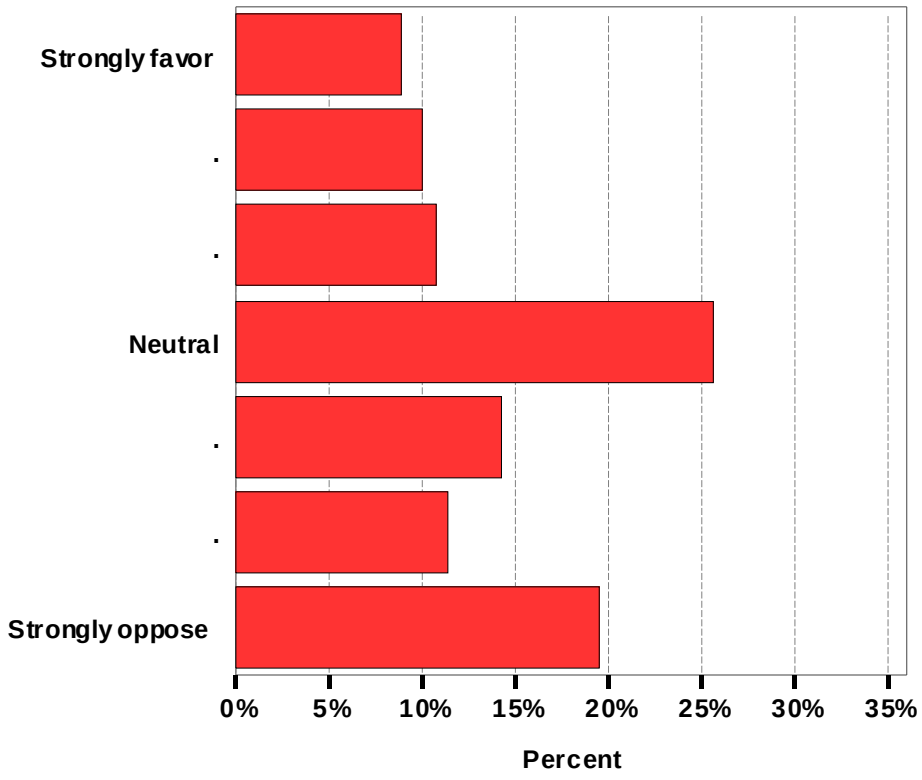
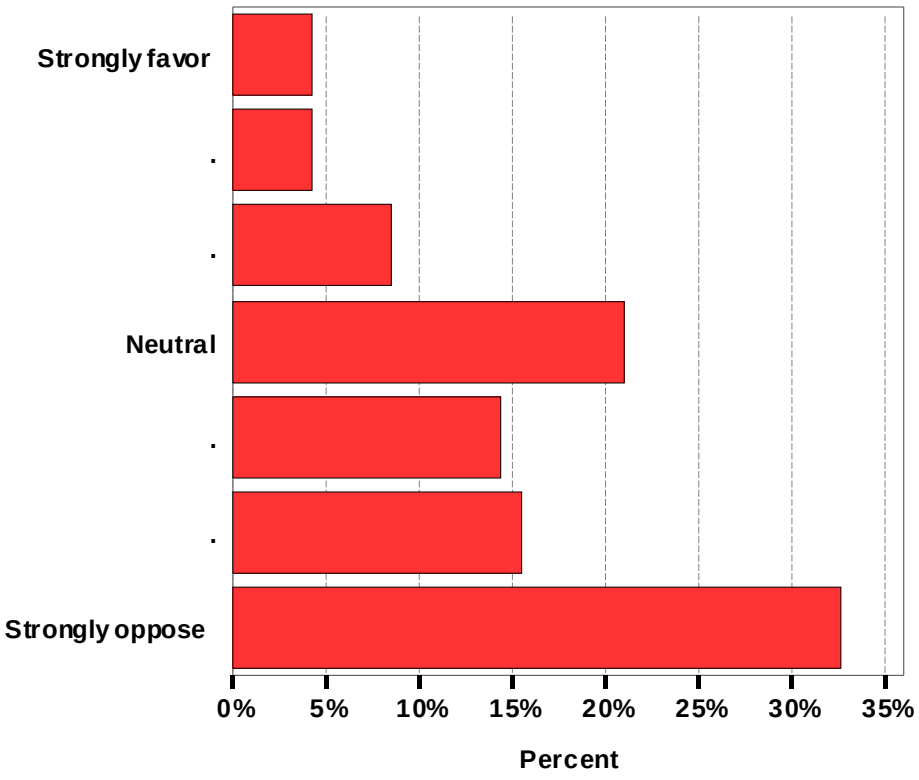


Figure 38

How do you feel about the use of CITY WATER supplies by the natural gas industry?

(n = 286)



Section IV

Potential Problems in Johnson County

This section deals with residents' perceptions of the potential problems in Johnson County which may or may not be associated with the continued development of natural gas. Survey respondents were presented with 33 issues which may or may not be problems in Johnson County. Respondents were asked to indicate whether they believe each issue currently is "no problem at all," a "slight problem," a "moderate problem," or a "serious problem." Respondents were then asked to indicate whether the seriousness of the problem is "getting better," "staying the same," or "getting worse" with the continued development of natural gas. The results are summarized below.

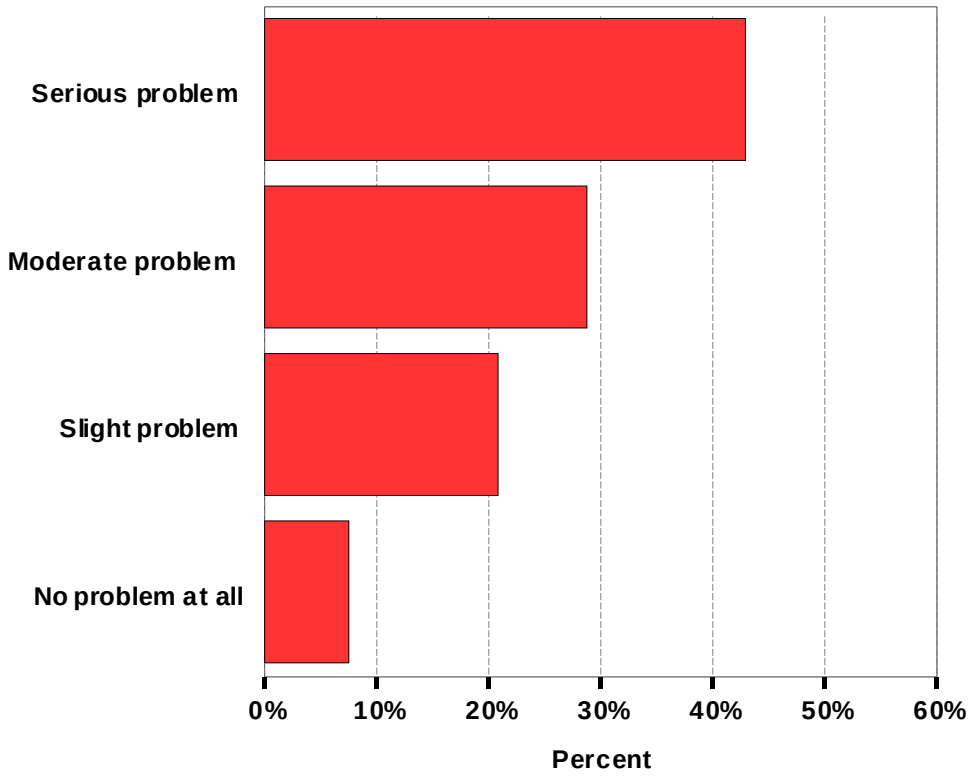
Figures 39a through 71a illustrate the perceived problematic extent of the issue today. Figures 39b to 71b illustrate the apparent seriousness of the problem with the continued development of natural gas.

For purposed of presentation, the issues were ranked from the perceived "most serious" to the "least serious" (see the Mean Score and coding notation).

Figure 39a

Issue: Use of illegal drugs

(n = 268)



Mean	**3.071**
Standard deviation	**0.967**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 39b

Because of the development of natural gas, use of illegal drugs is:

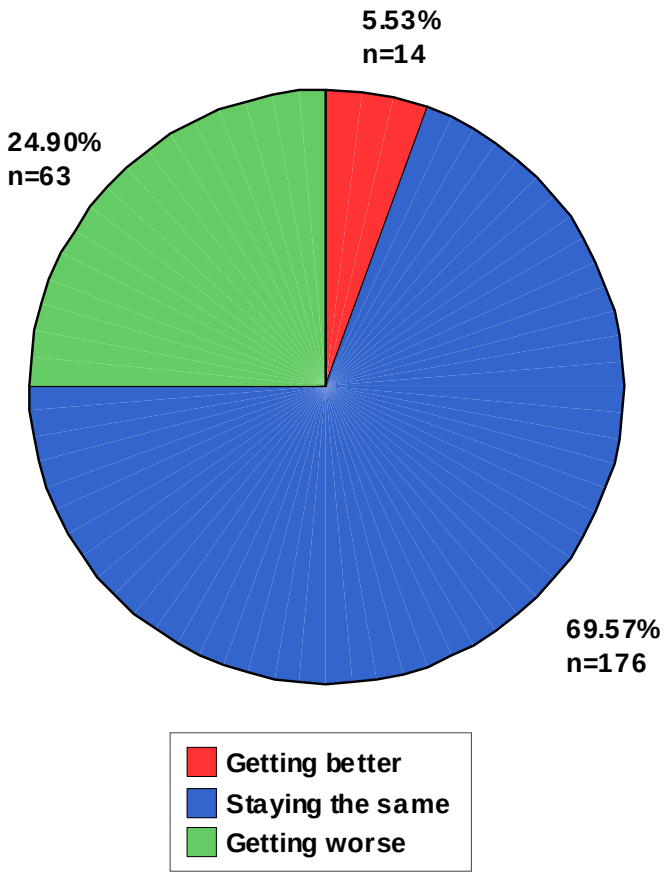
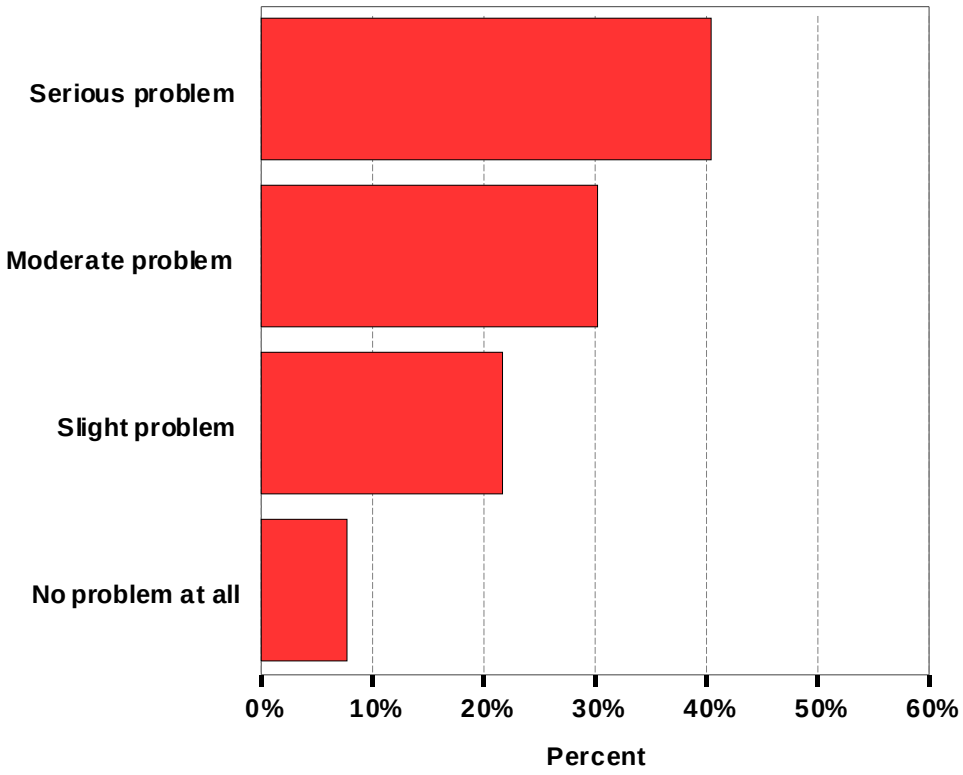


Figure 40a

Issue: High tax rates

(n = 272)



Mean	**3.033**
Standard deviation	**0.966**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 40b

Because of the development of natural gas, high tax rates are:

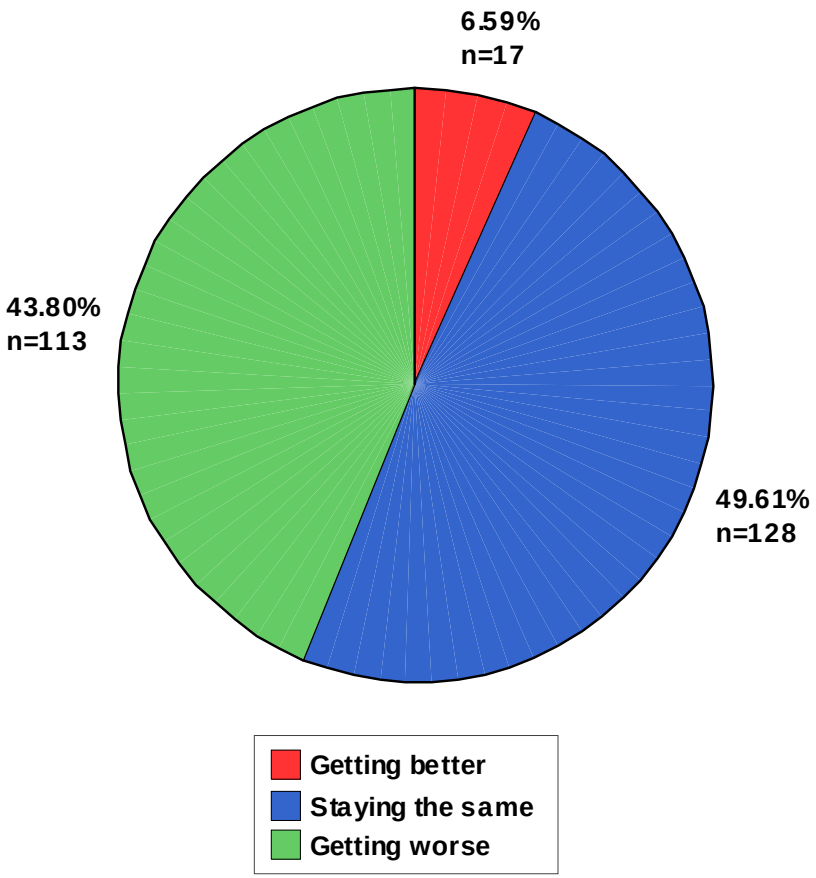
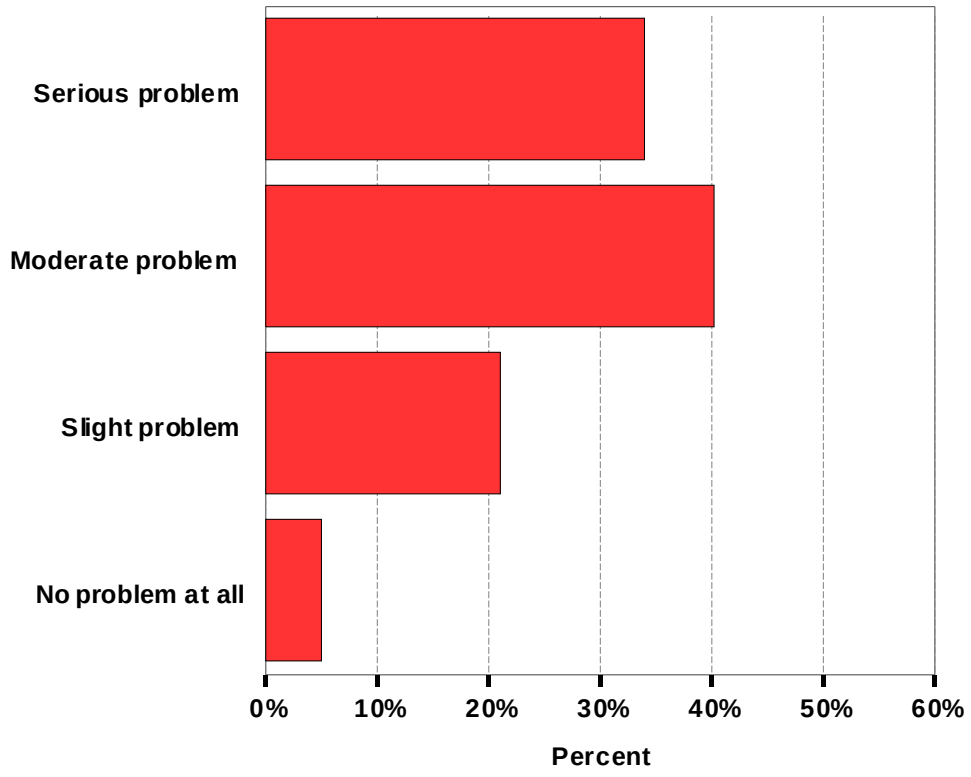


Figure 41a

Issue: Conditions of streets and roads

(n = 286)



Mean	**3.031**
Standard deviation	**0.864**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 41b

Because of the development of natural gas, conditions of streets and roads are:

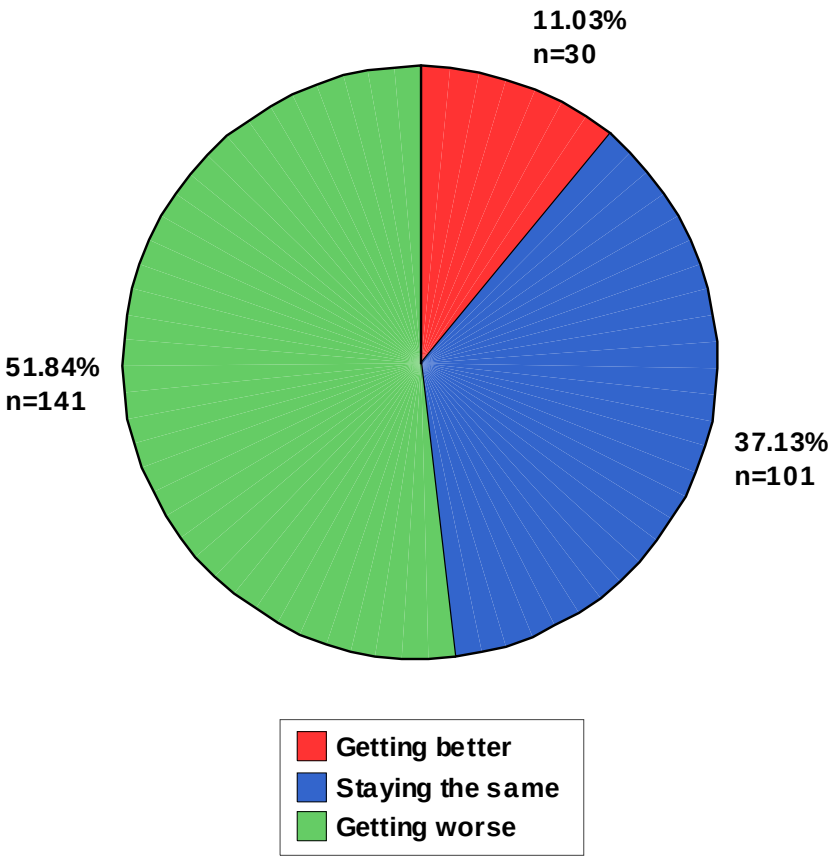
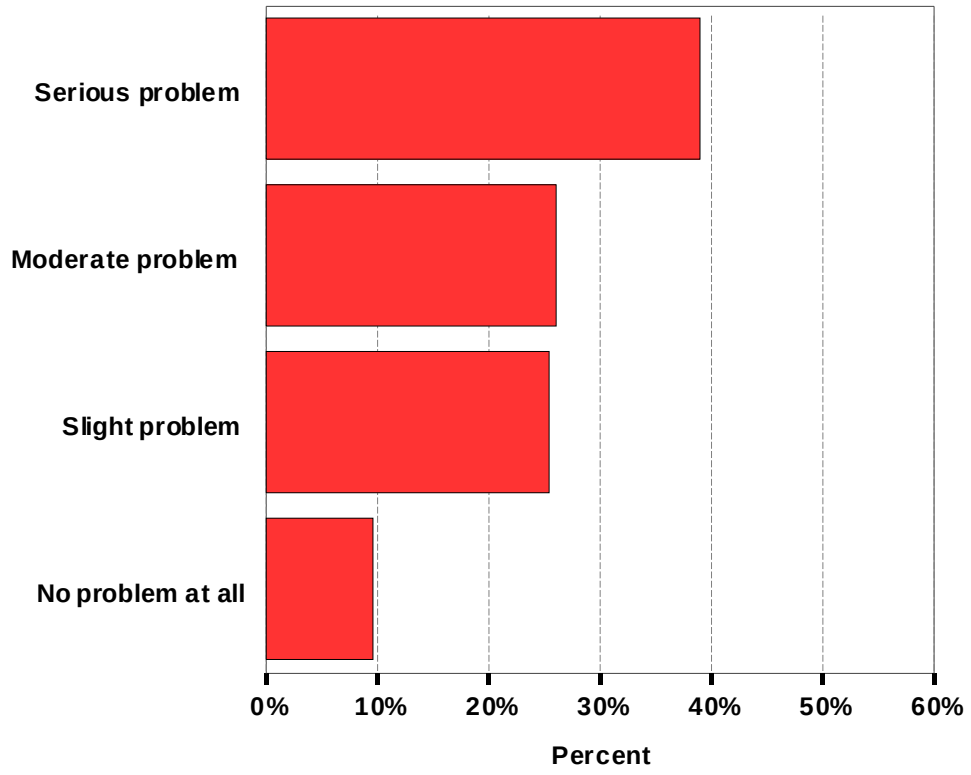


Figure 42a

Issue: Increased truck traffic

(n = 280)



Mean	**2.943**
Standard deviation	**1.014**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 42b

Because of the development of natural gas, <u>increased truck traffic</u> is:

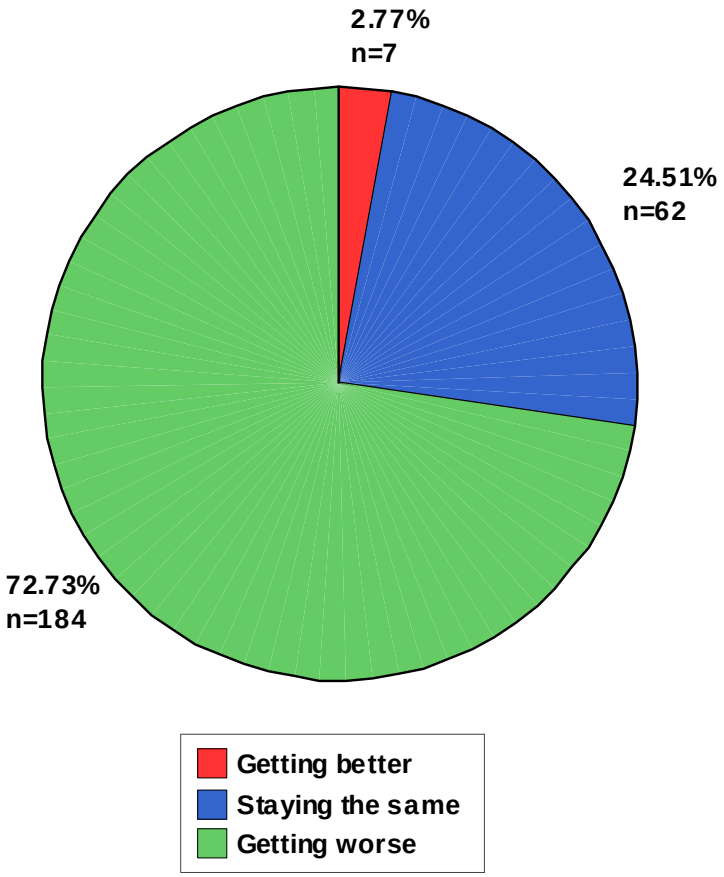
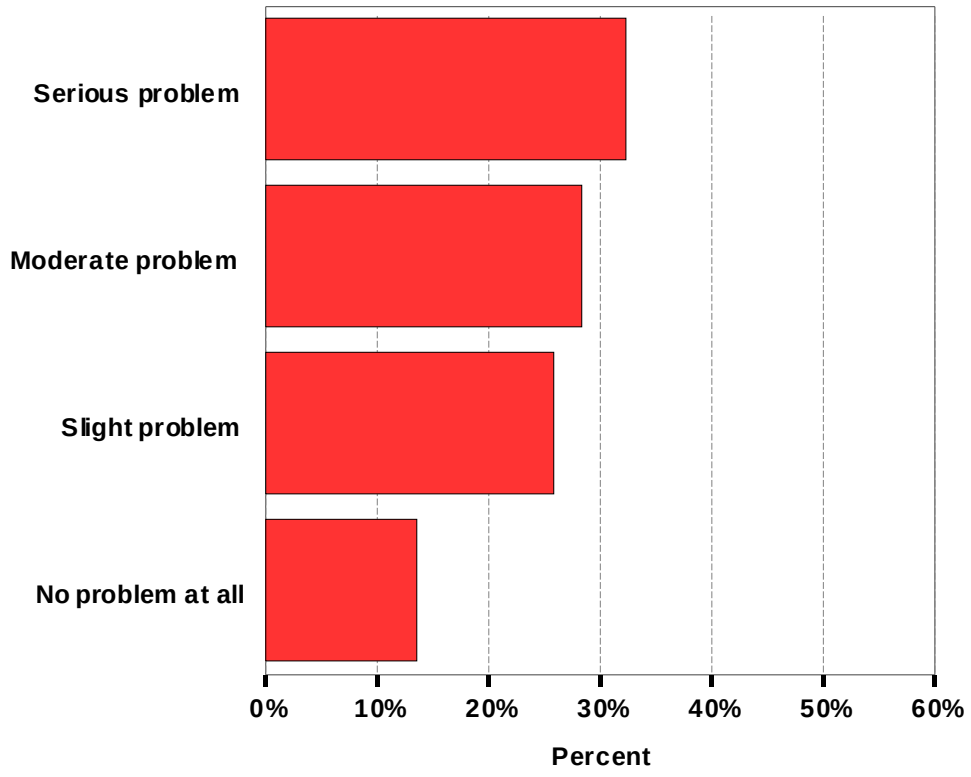


Figure 43a

Issue: Depletion of aquifers

(n = 244)



Mean	**2.795**
Standard deviation	**1.042**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 43b

Because of the development of natural gas, depletion of aquifers is:

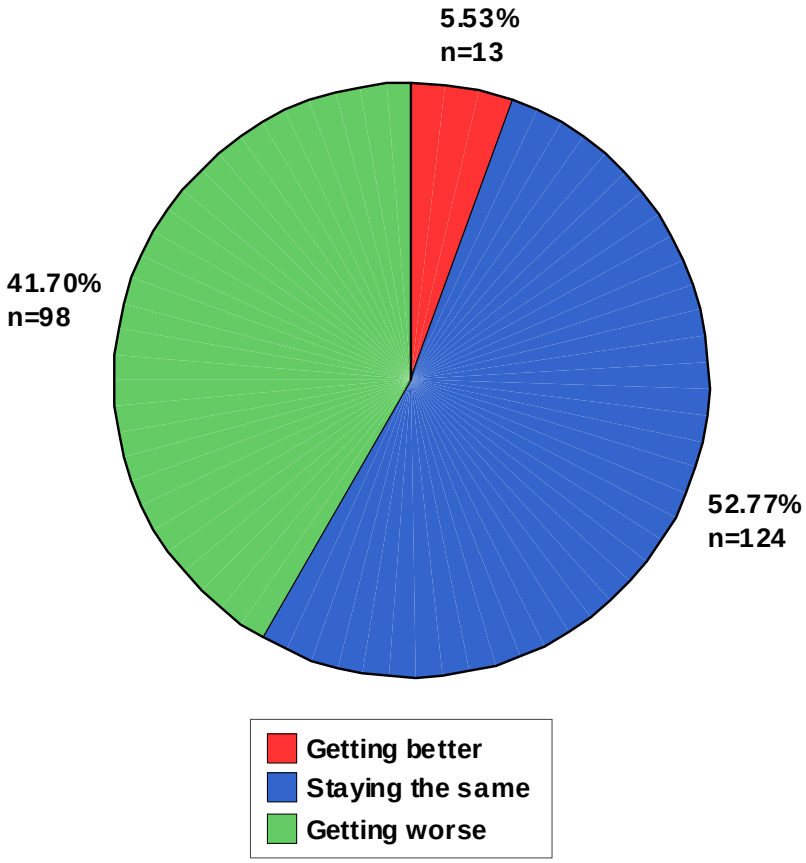
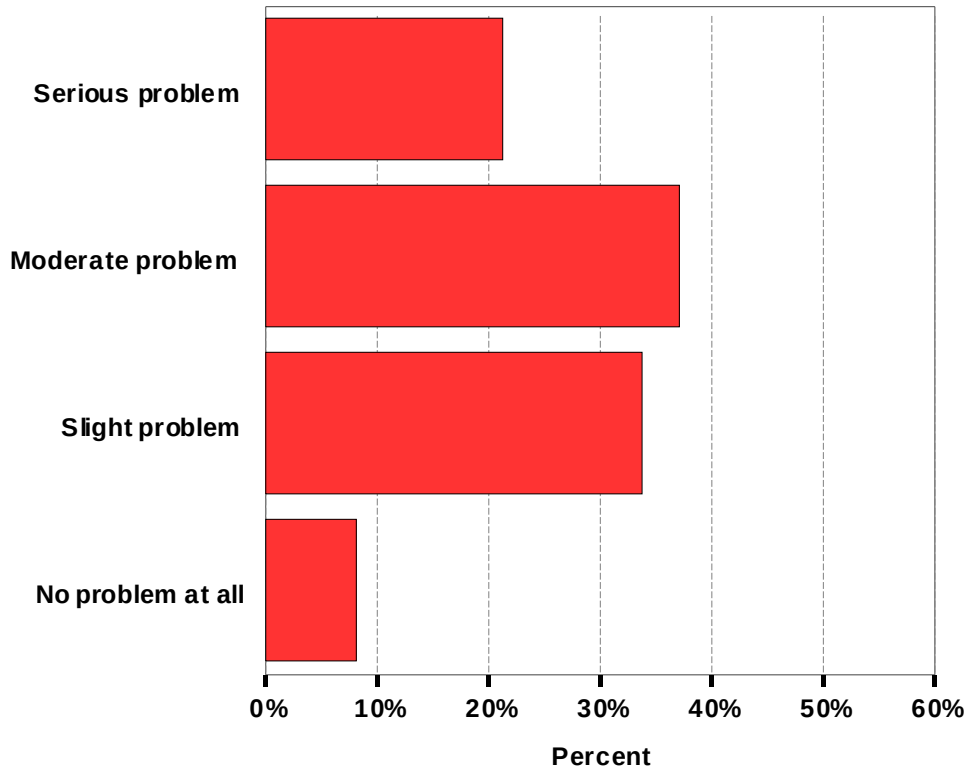


Figure 44a

Issue: Crime
(n = 273)



Mean	**2.714**
Standard deviation	**0.891**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 44b

Because of the development of natural gas, crime is:

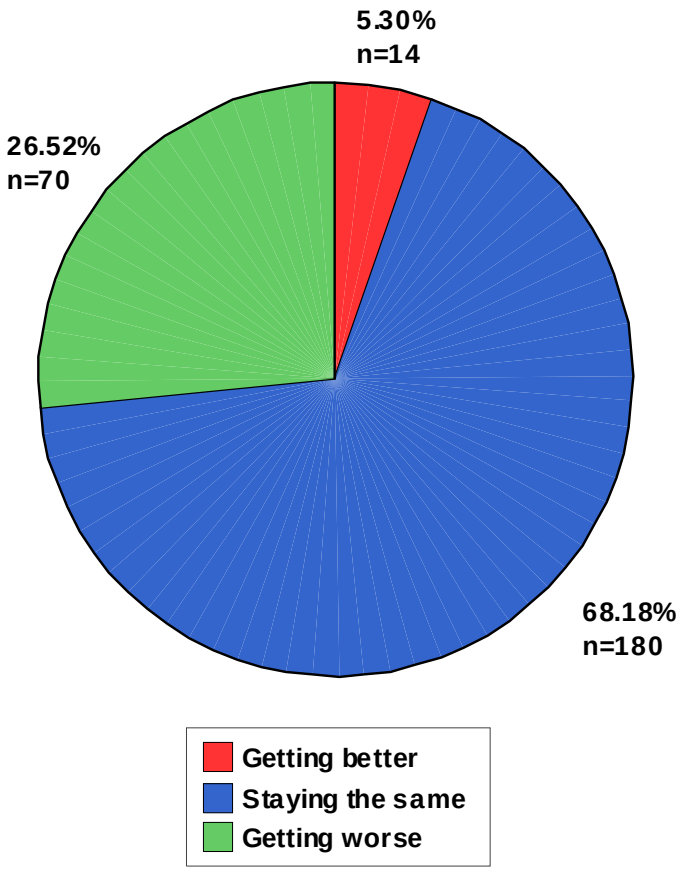
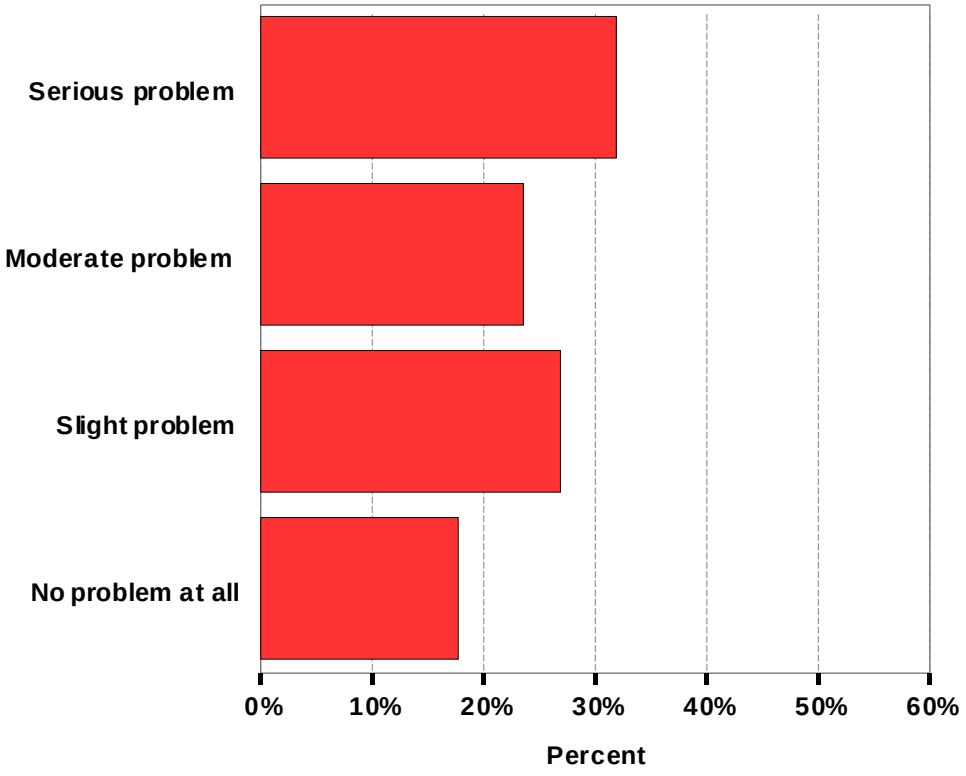


Figure 45a

Issue: Amount of freshwater used by gas producers

(n = 260)



Mean	**2.696**
Standard deviation	**1.099**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 45b

Because of the development of natural gas, amount of freshwater used by gas producers is:

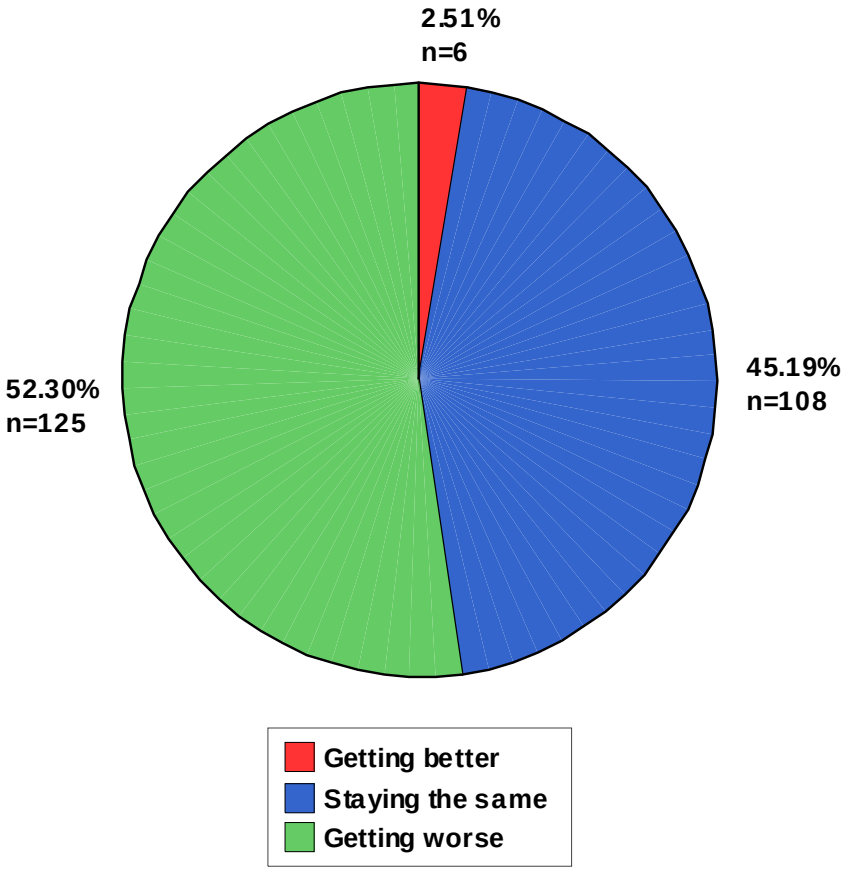
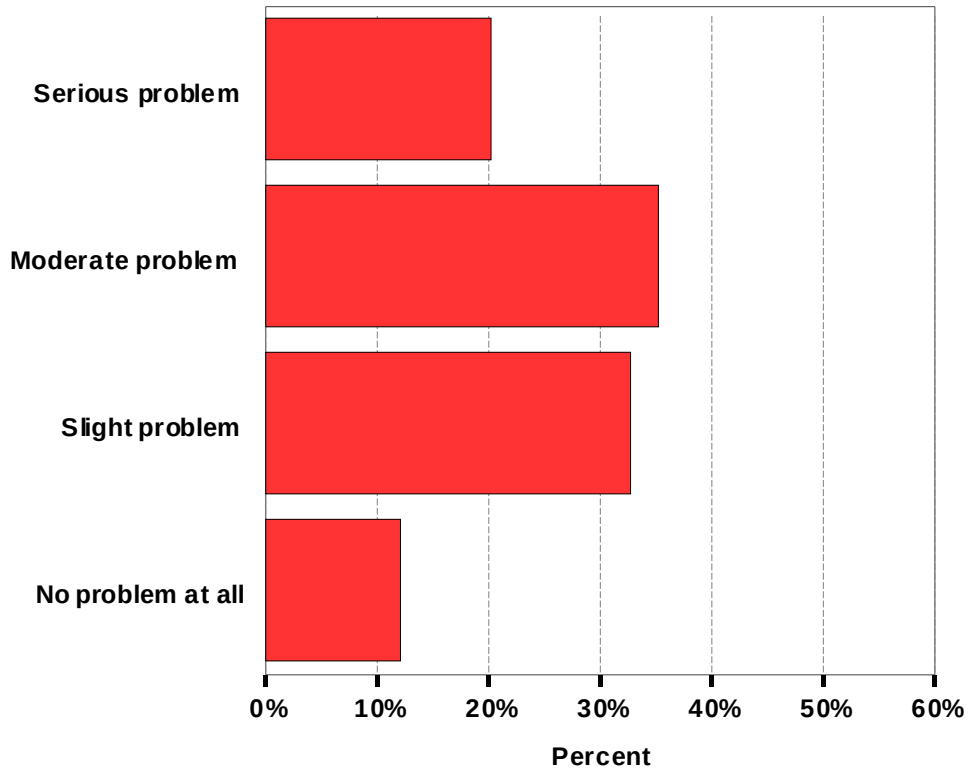


Figure 46a

Issue: Traffic accidents

(n = 273)



Mean	**2.634**
Standard deviation	**0.938**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 46b

Because of the development of natural gas, traffic accidents are:

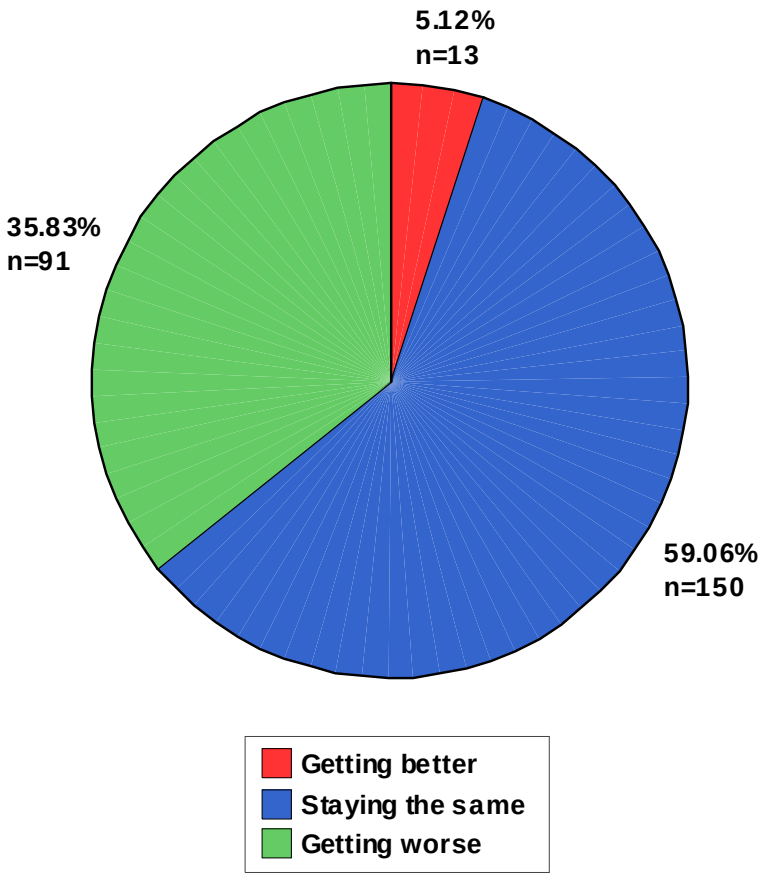
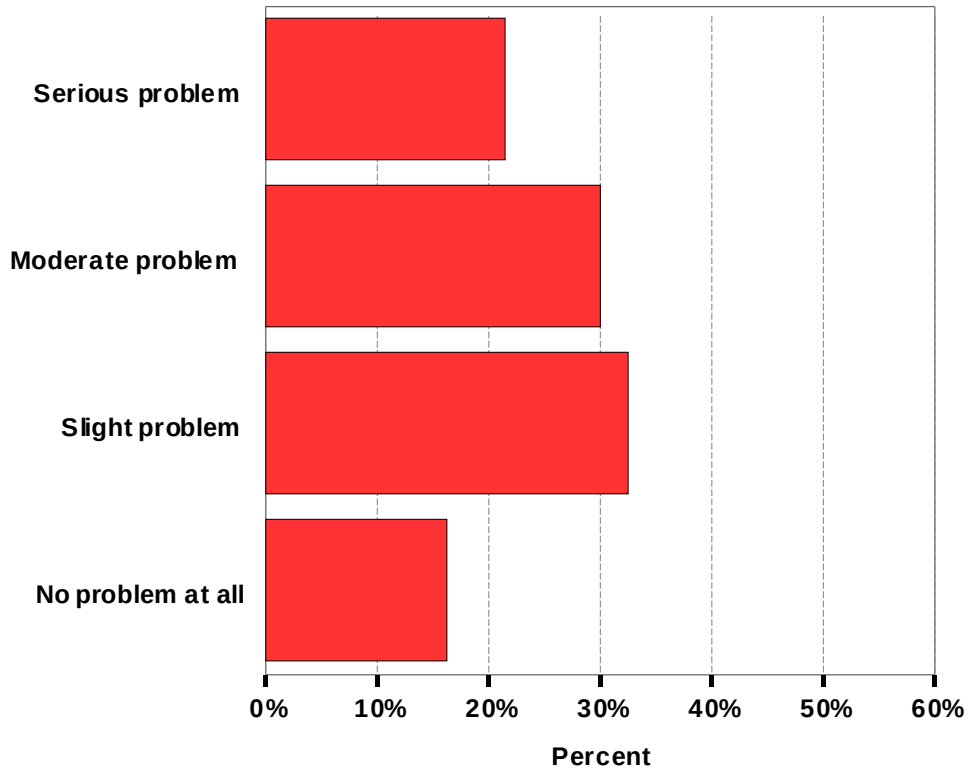


Figure 47a

Issue: Water pollution

(n = 271)



Mean	**2.565**
Standard deviation	**1.001**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 47b

Because of the development of natural gas, <u>water pollution</u> is:

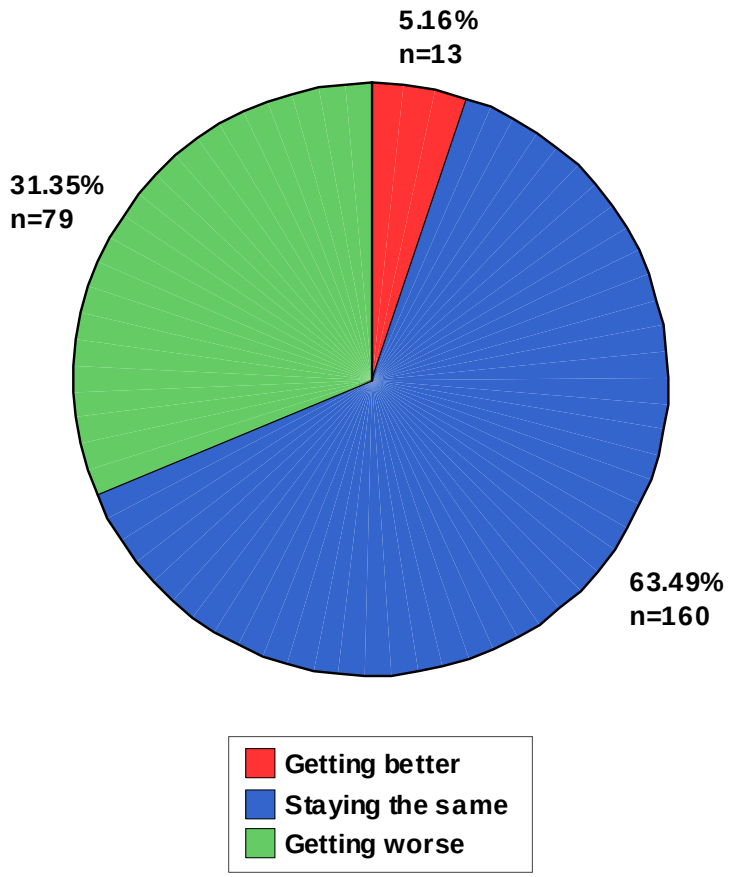
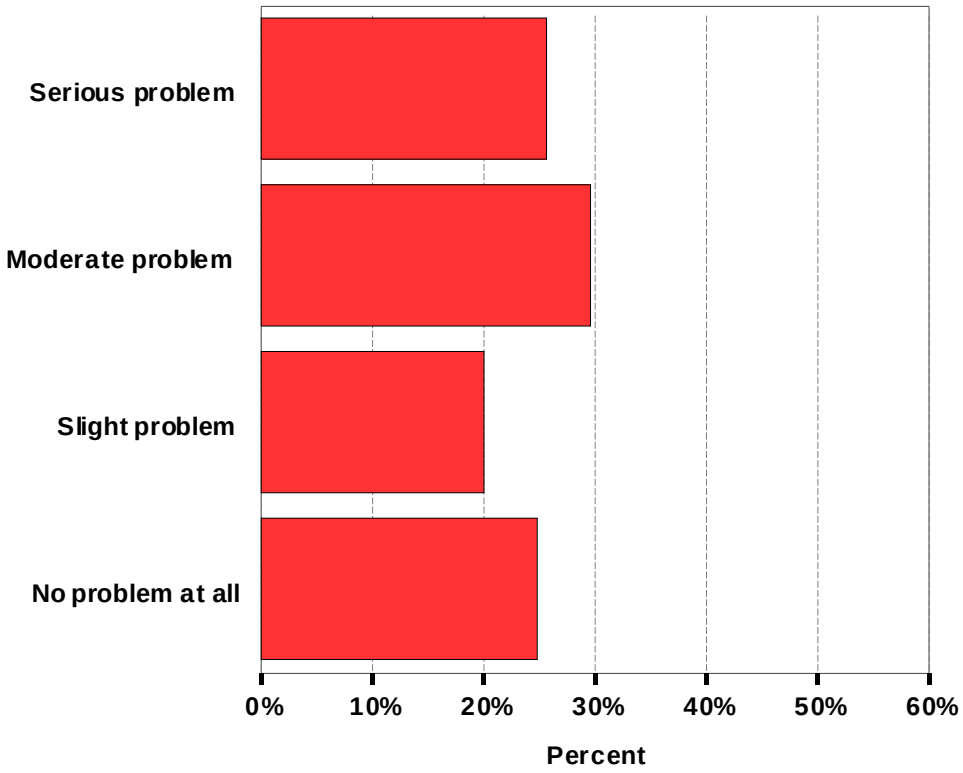


Figure 48a

Issue: Too much residential development

(n = 274)



Mean	**2.558**
Standard deviation	**1.122**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 48b

Because of the development of natural gas, too much residential development is:

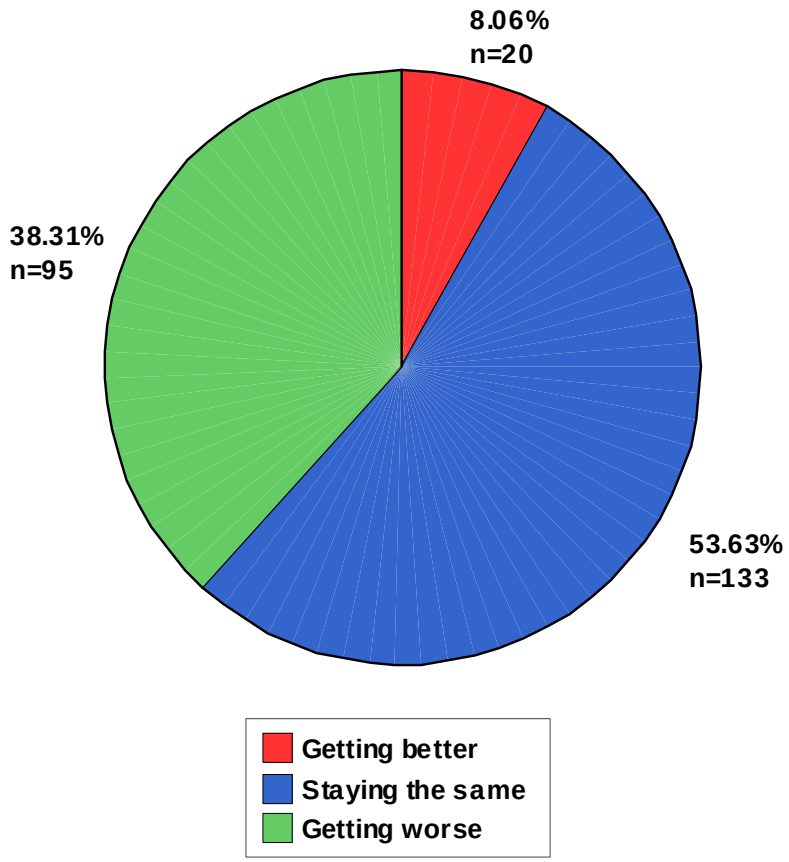
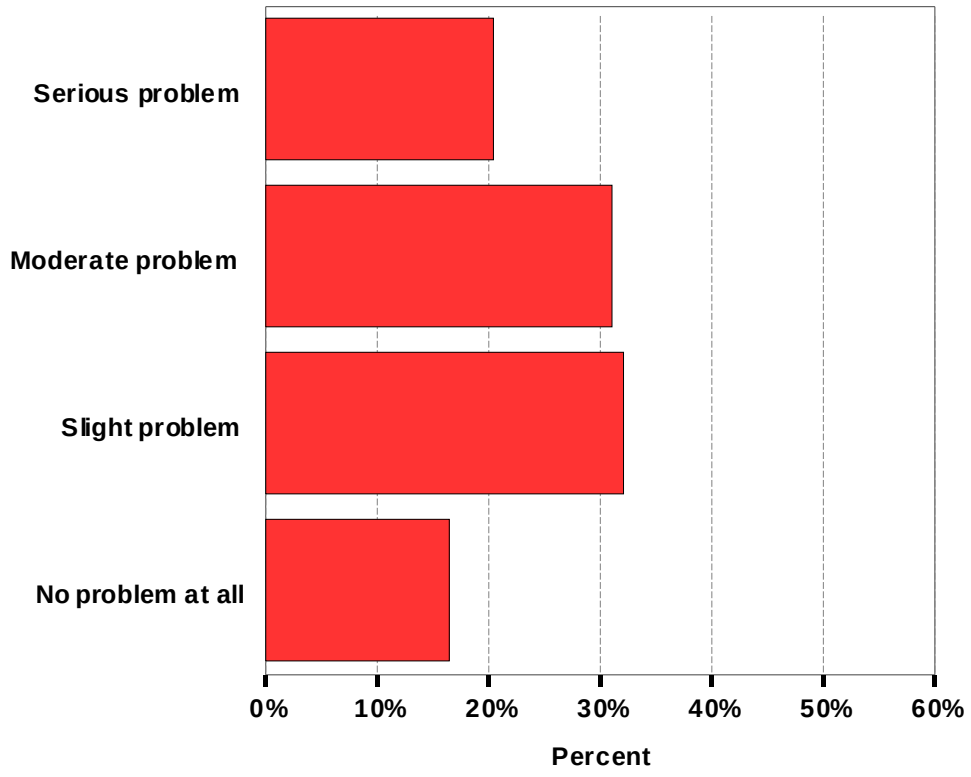


Figure 49a

Issue: Air pollution

(n = 278)



Mean	**2.554**
Standard deviation	**0.996**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 49b

Because of the development of natural gas, <u>air pollution</u> is:

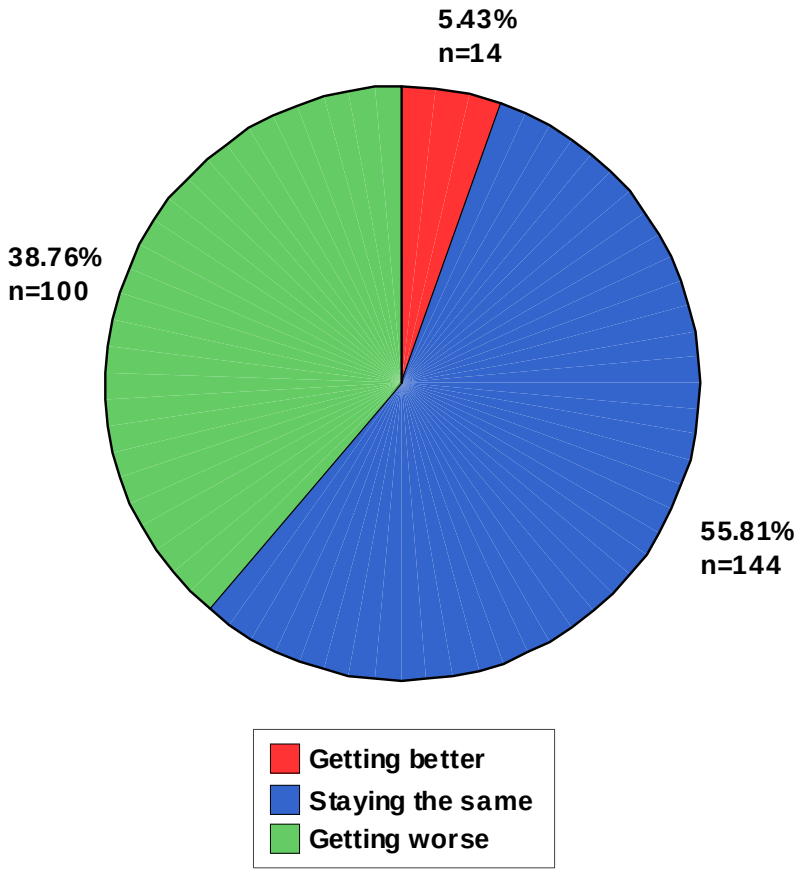
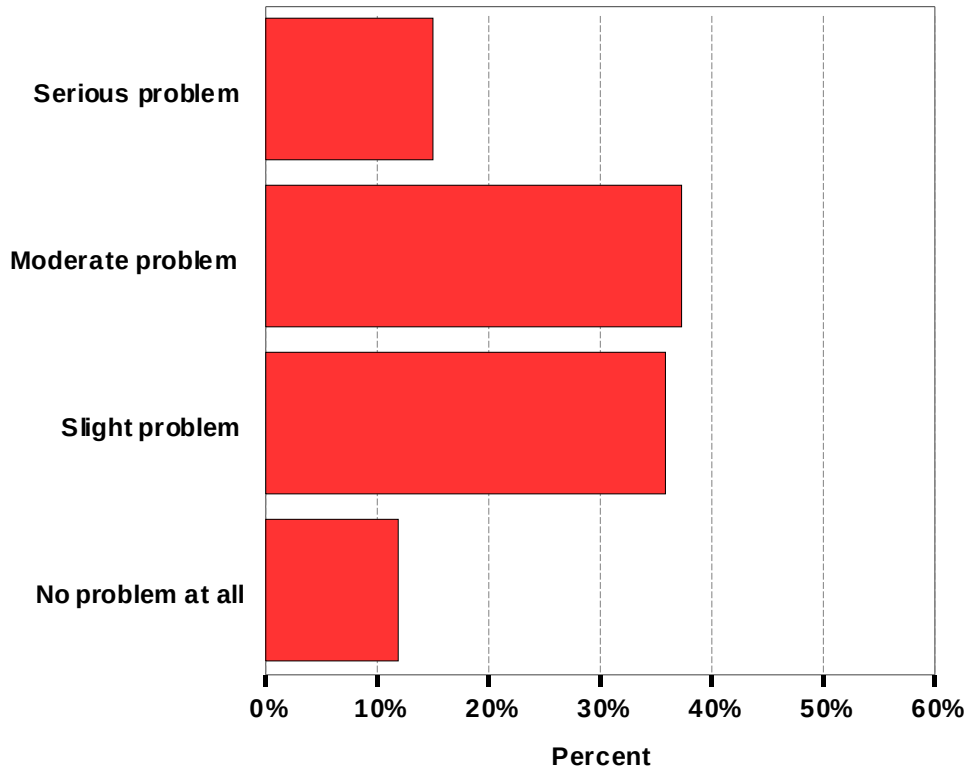


Figure 50a

Issue: Poverty

(n = 268)



Mean	**2.552**
Standard deviation	**0.887**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 50b

Because of the development of natural gas, poverty is:

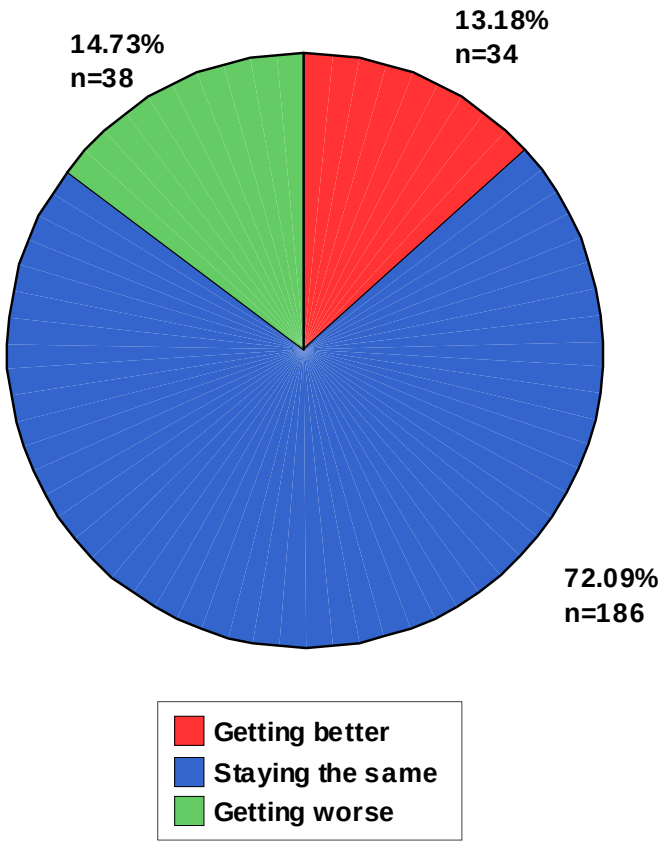
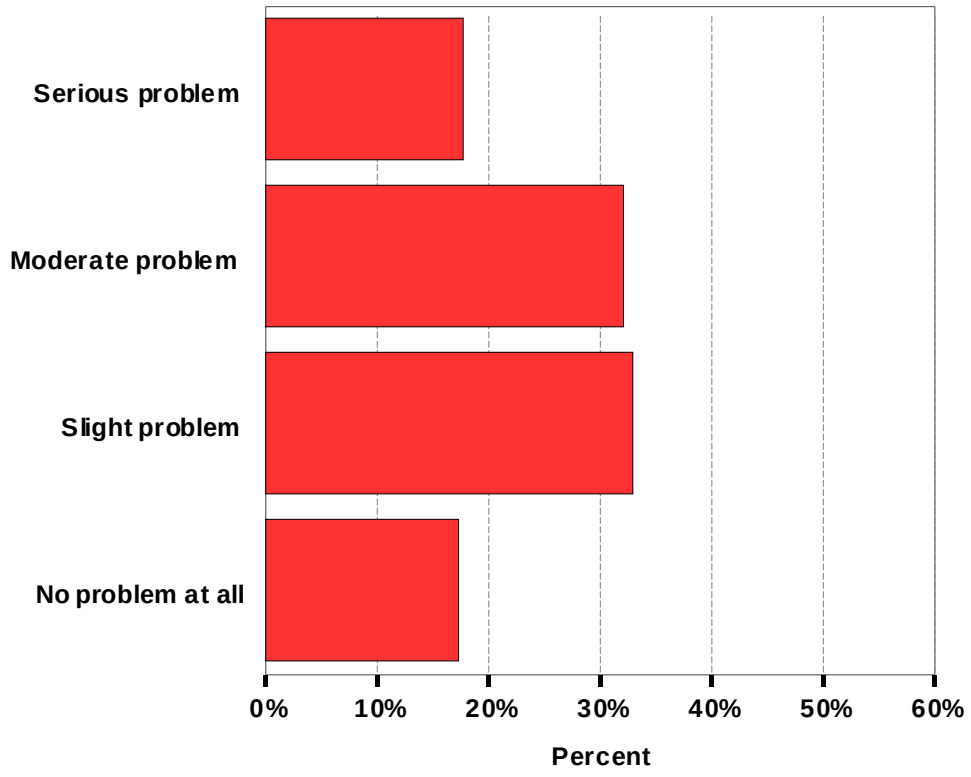


Figure 51a

Issue: Respect for law and order

(n = 277)



Mean	**2.502**
Standard deviation	**0.977**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 51b

Because of the development of natural gas, respect for law and order is:

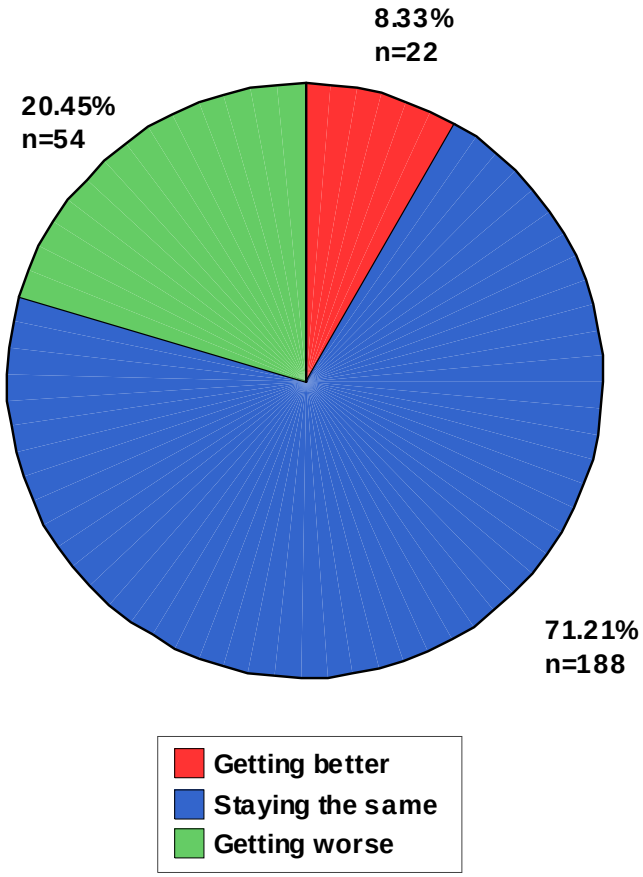
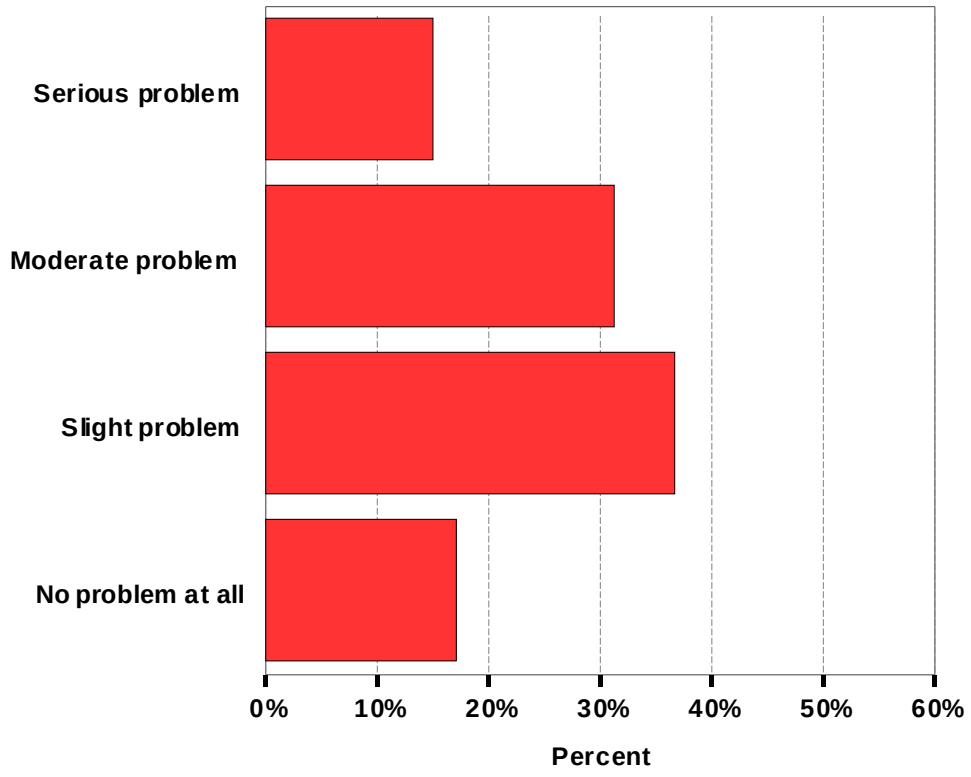


Figure 52a

Issue: Absence of zoning regulations

(n = 259)



Mean	**2.444**
Standard deviation	**0.944**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 52b

Because of the development of natural gas, absence of zoning regulations is:

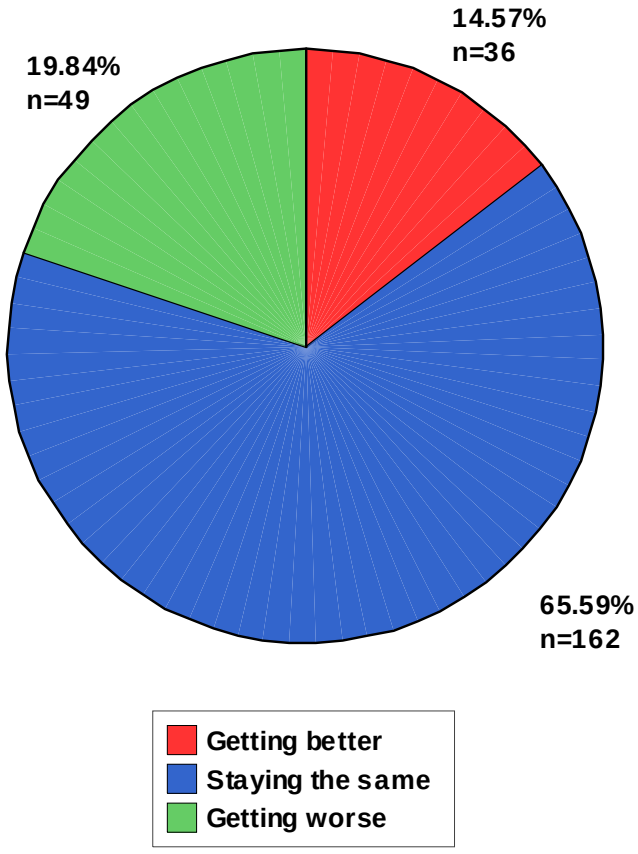
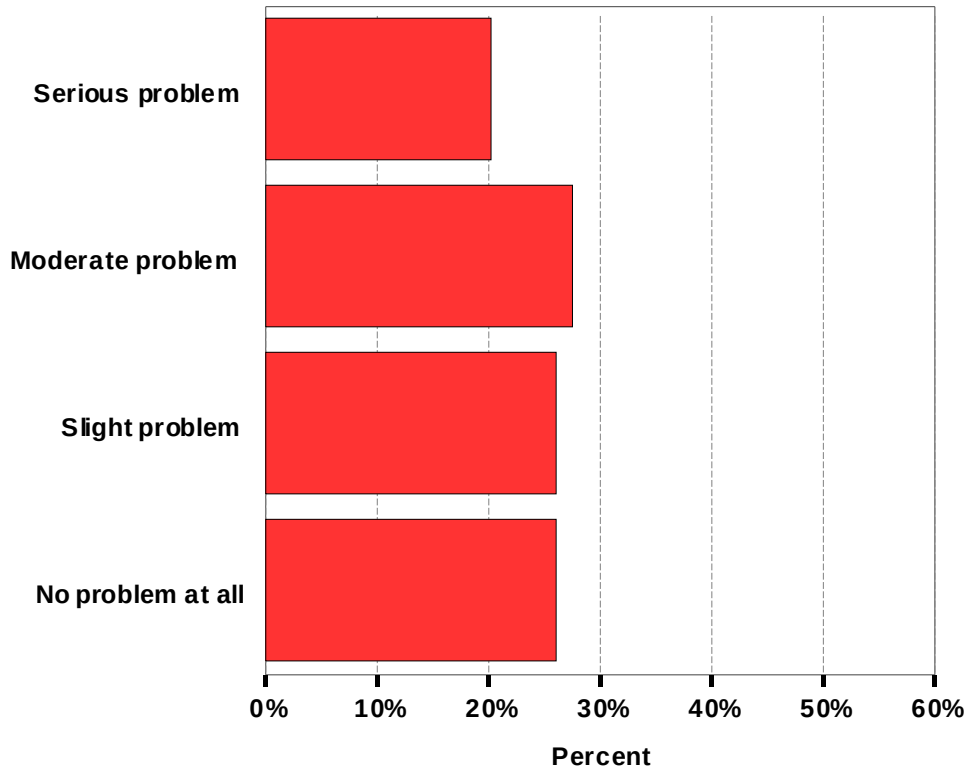


Figure 53a

Issue: Medical and health care services

(n = 272)



Mean	**2.419**
Standard deviation	**1.084**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 53b

Because of the development of natural gas, medical and health care services are:

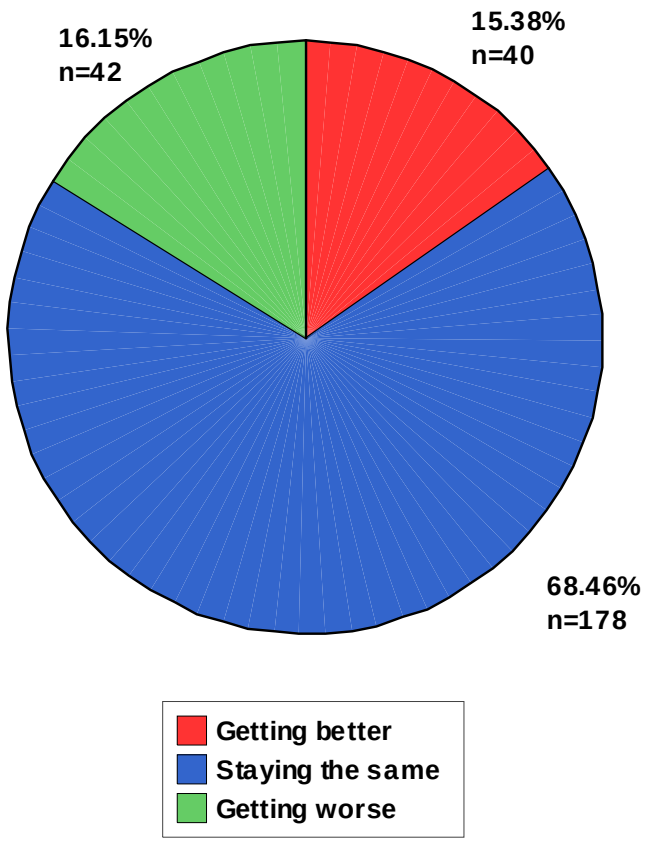
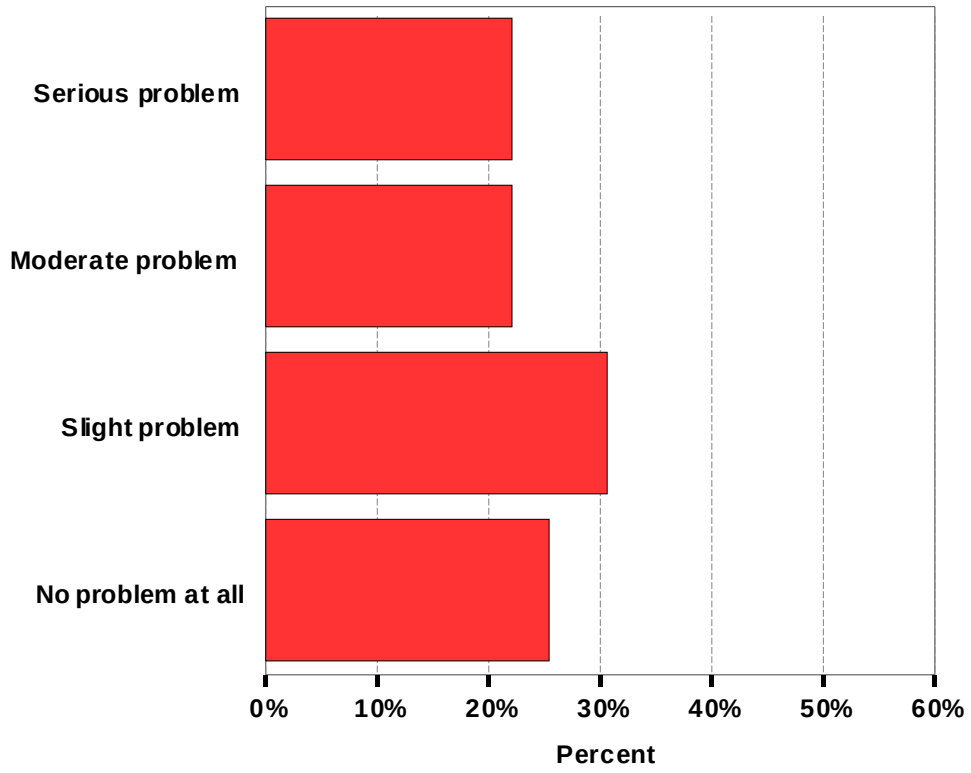


Figure 54a

Issue: Population growth

(n = 272)



Mean	**2.408**
Standard deviation	**1.093**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 54b

Because of the development of natural gas, <u>population growth</u> is:

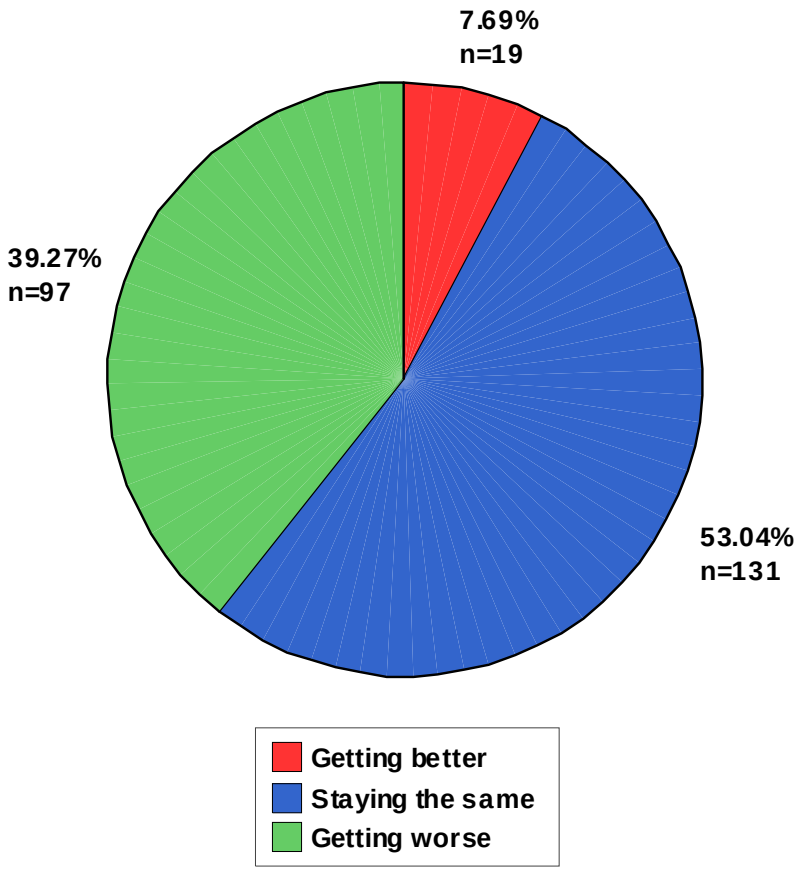
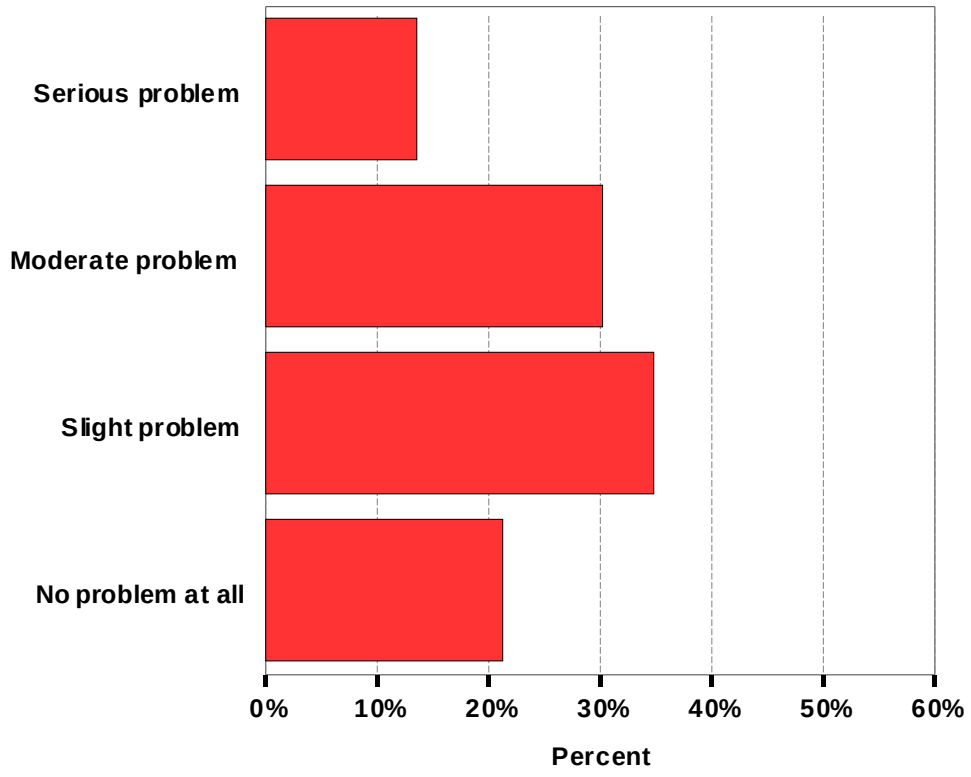


Figure 55a

Issue: Effectiveness of city governments

(n = 258)



Mean	**2.360**
Standard deviation	**0.965**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 55b

Because of the development of natural gas, effectiveness of city governments is:

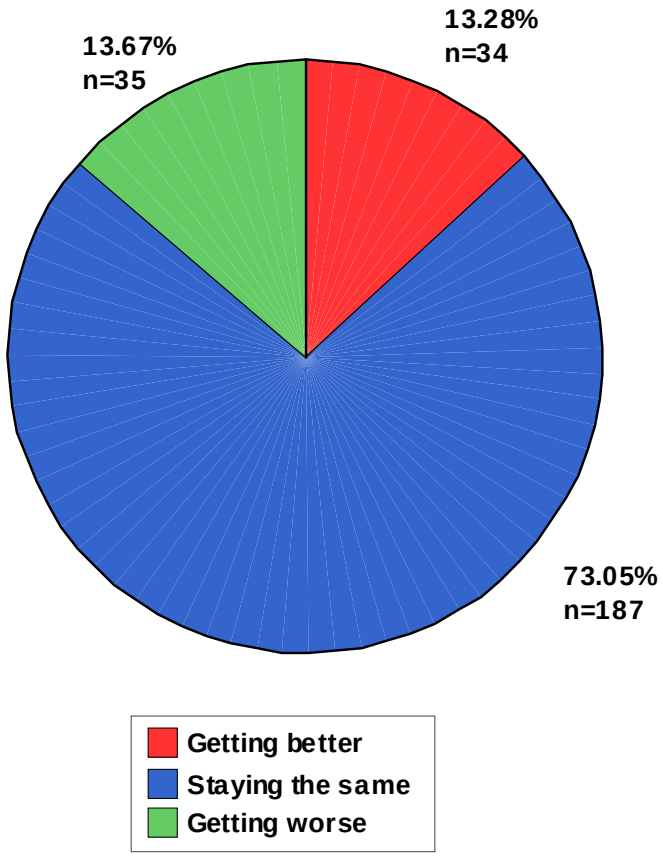
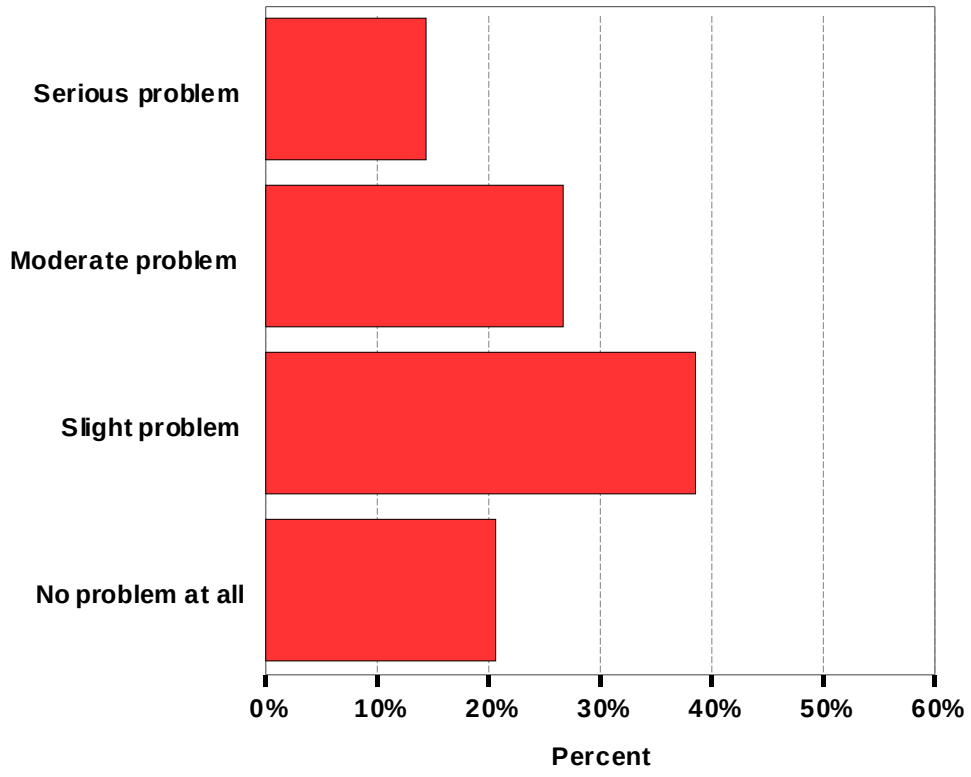


Figure 56a

Issue: Fire hazards

(n = 273)



Mean	**2.348**
Standard deviation	**0.962**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 56b

Because of the development of natural gas, fire hazards are:

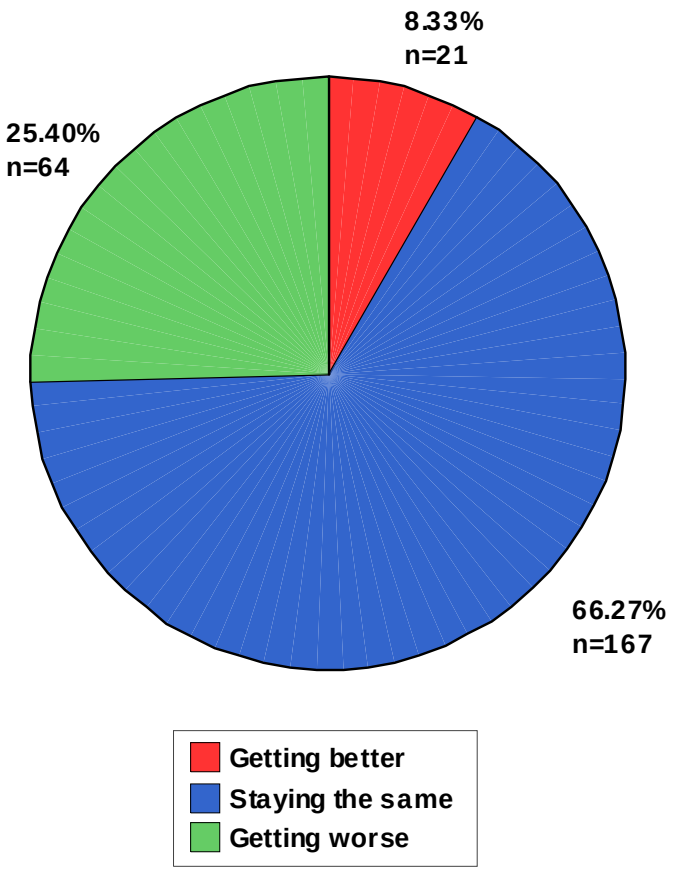
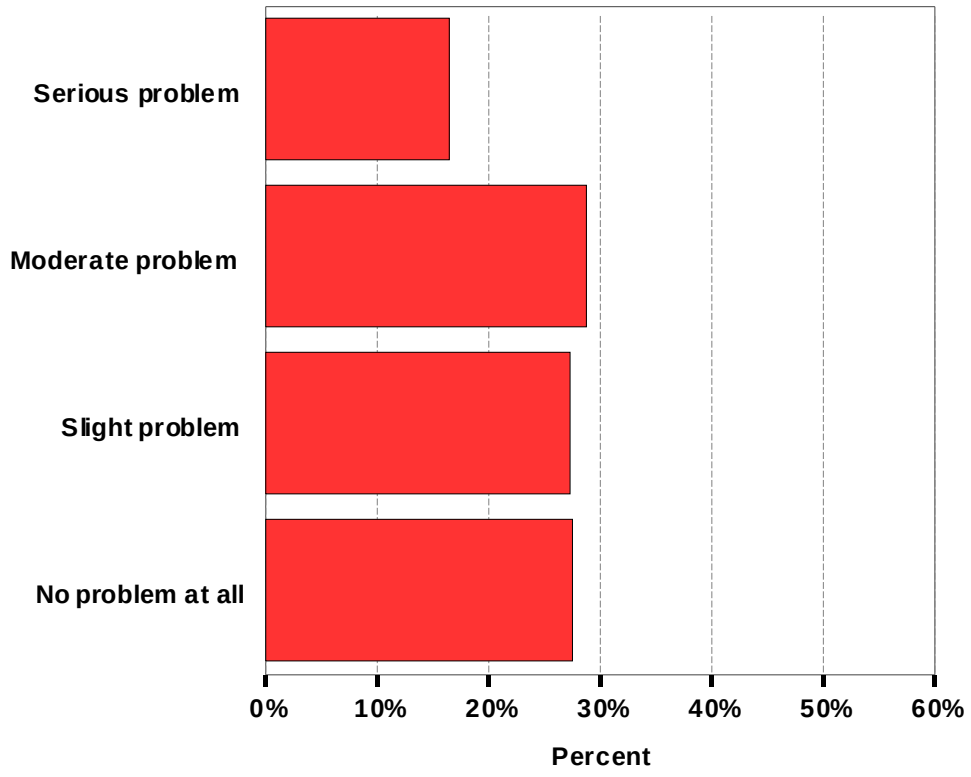


Figure 57a

Issue: Availability of good jobs

(n = 272)



Mean	**2.342**
Standard deviation	**1.054**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 57b

Because of the development of natural gas, availability of good jobs is:

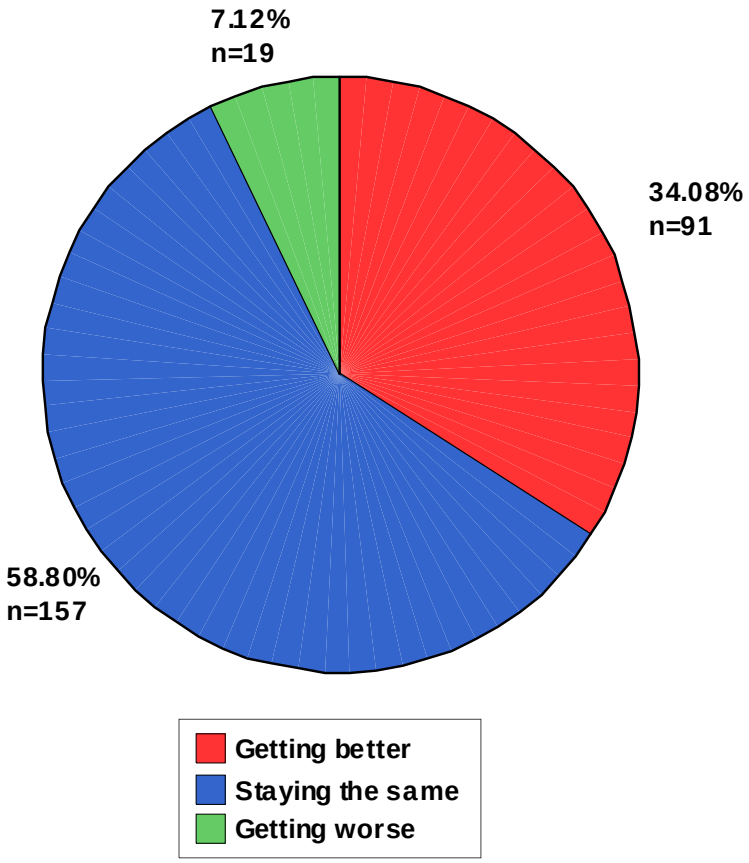
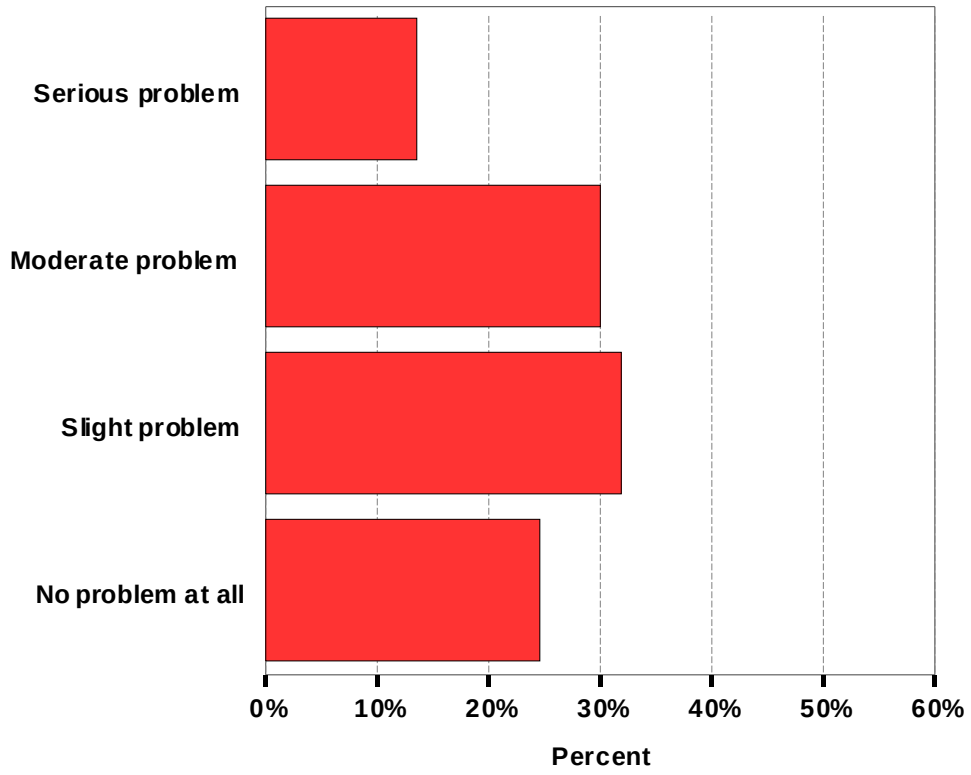


Figure 58a

Issue: Noise pollution
(n = 280)



Mean	**2.325**
Standard deviation	**0.994**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 58b

Because of the development of natural gas, noise pollution is:

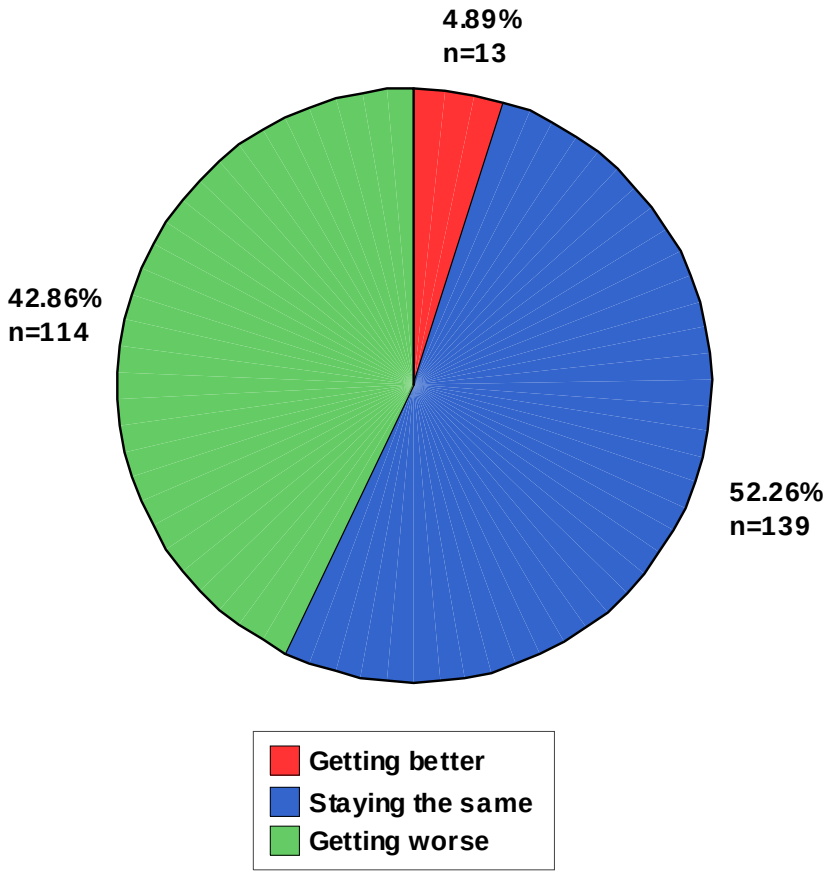
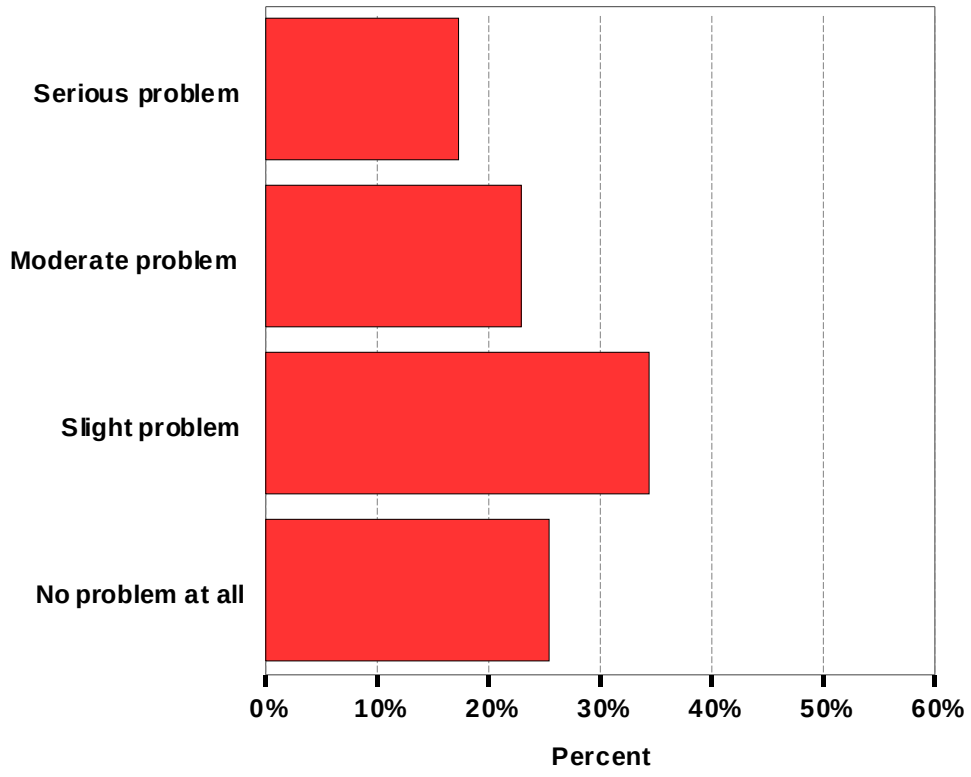


Figure 59a

Issue: Environmental quality

(n = 267)



Mean	**2.318**
Standard deviation	**1.037**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 59b

Because of the development of natural gas, <u>environmental quality</u> is:

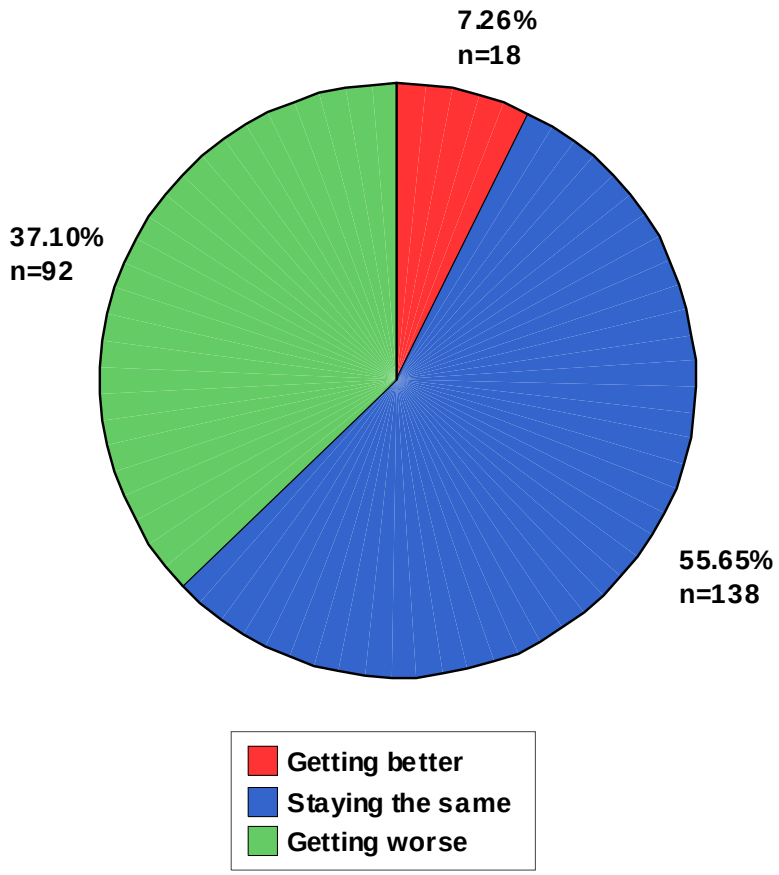
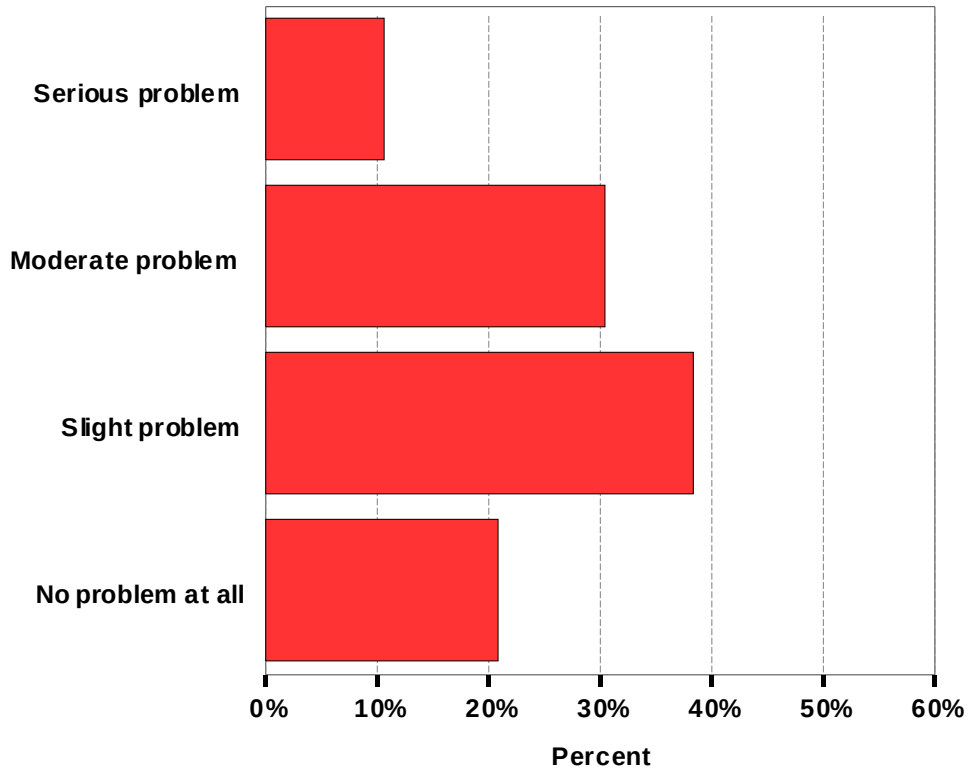


Figure 60a

Issue: Effectiveness of county government
(n = 264)



Mean	**2.307**
Standard deviation	**0.919**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 60b

Because of the development of natural gas, effectiveness of county government is:

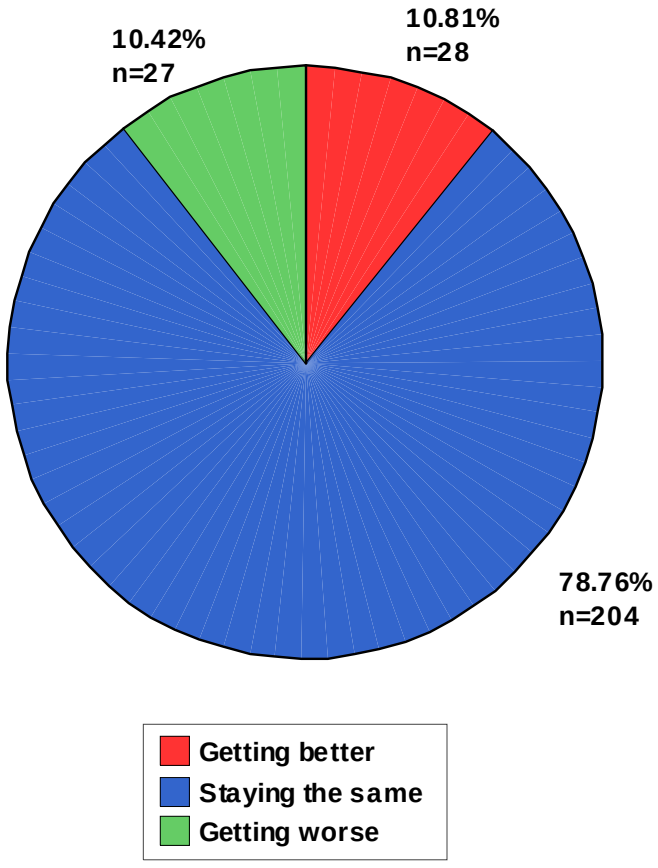
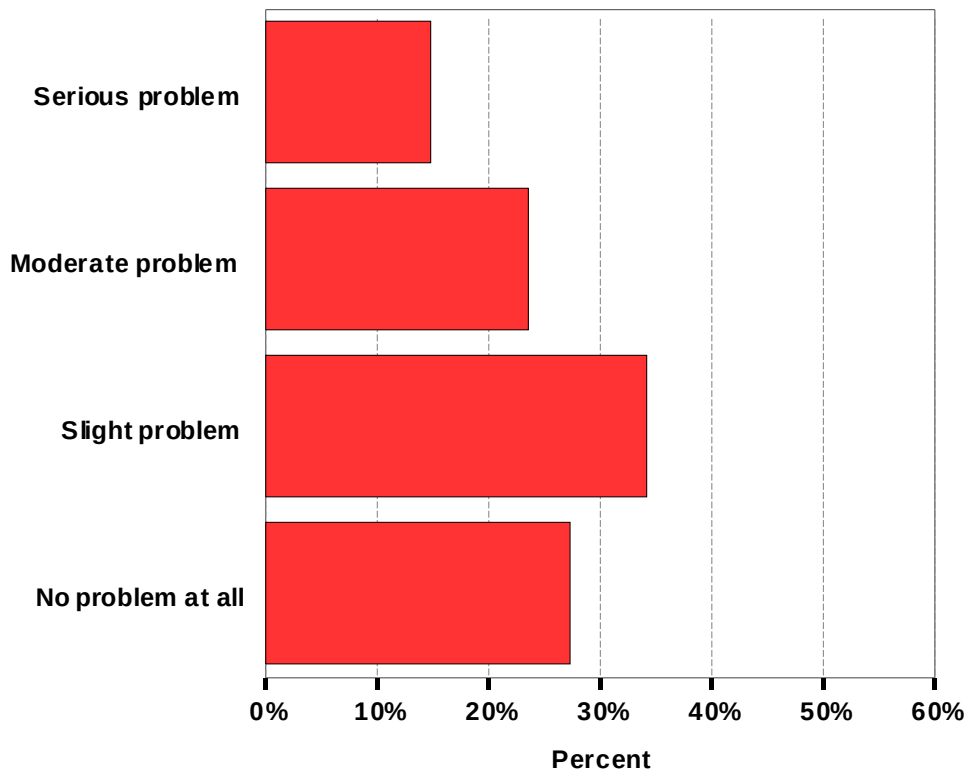


Figure 61a

Issue: Land use conflicts
(n = 263)



Mean	**2.259**
Standard deviation	**1.020**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 61b

Because of the development of natural gas, land use conflicts are:

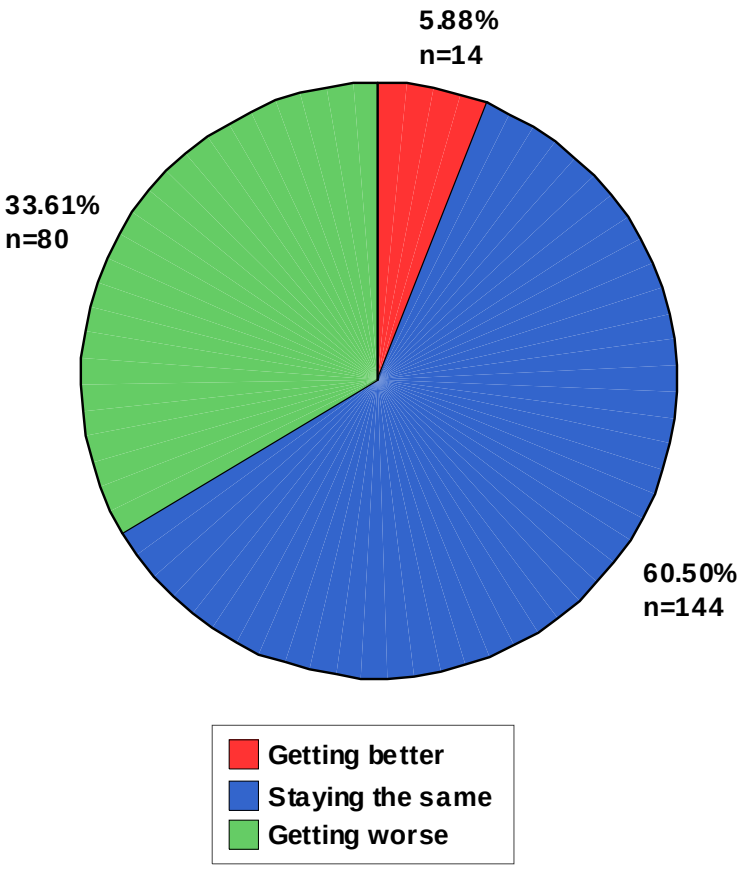
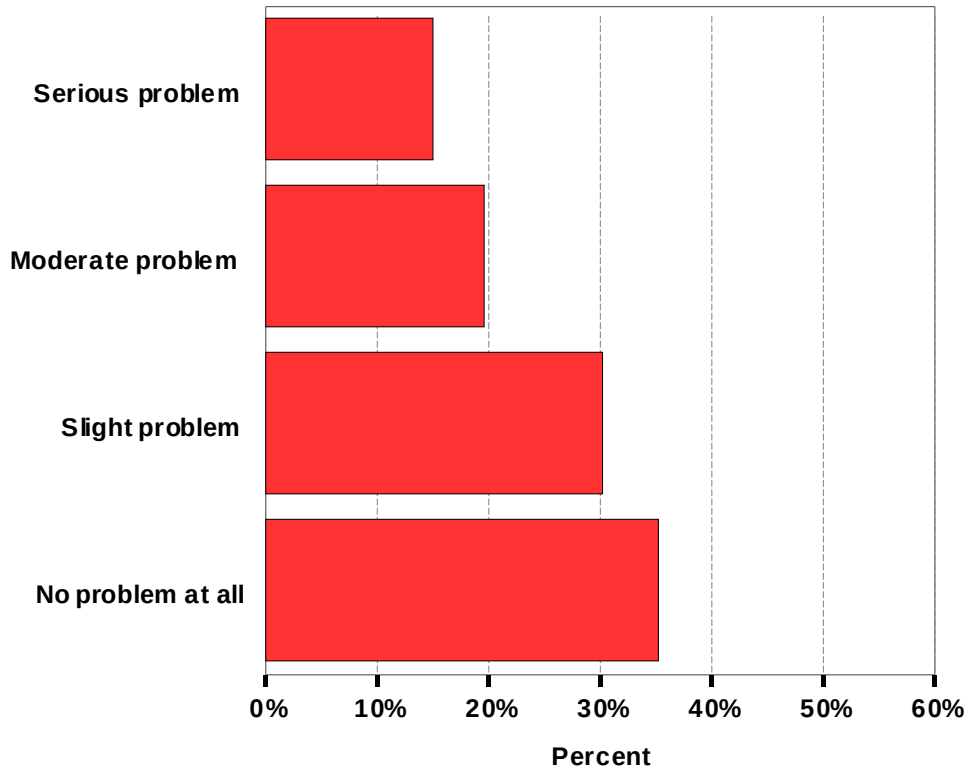


Figure 62a

Issue: Loss of privacy

(n = 272)



Mean	**2.143**
Standard deviation	**1.065**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 62b

Because of the development of natural gas, loss of privacy is:

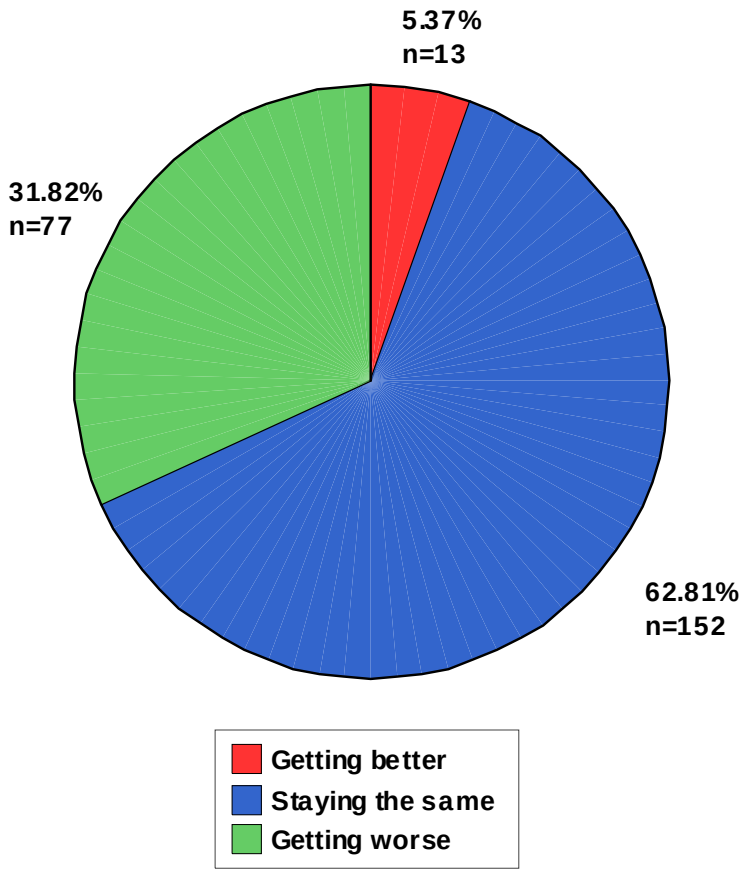
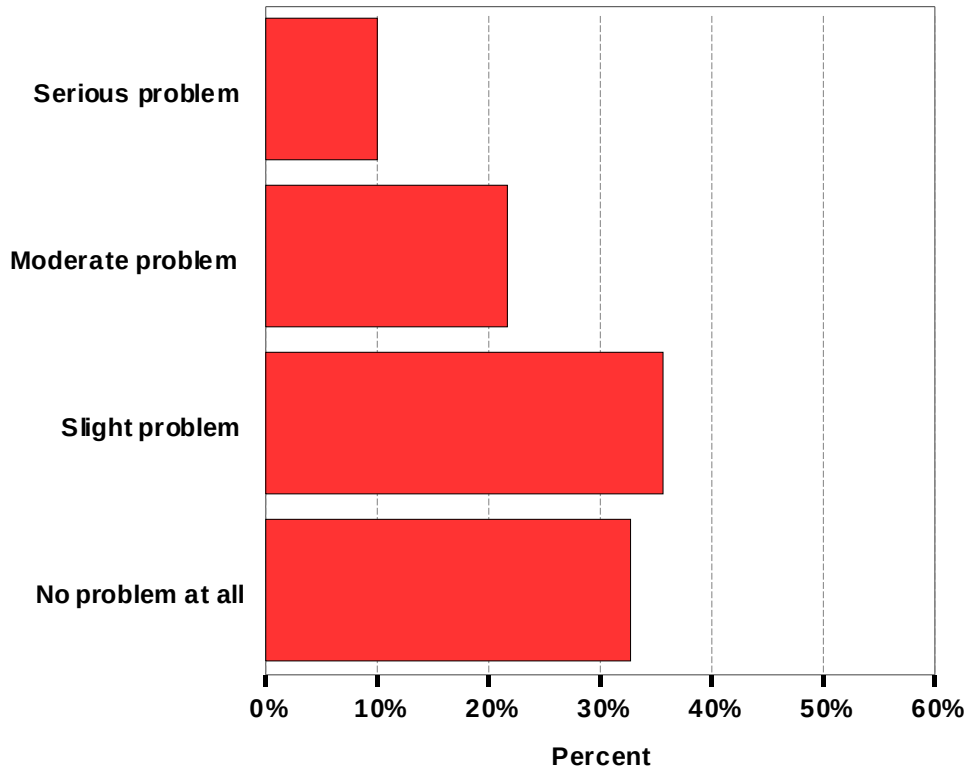


Figure 63a

Issue: Local police protection

(n = 269)



Mean	**2.089**
Standard deviation	**0.969**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 63b

Because of the development of natural gas, local police protection is:

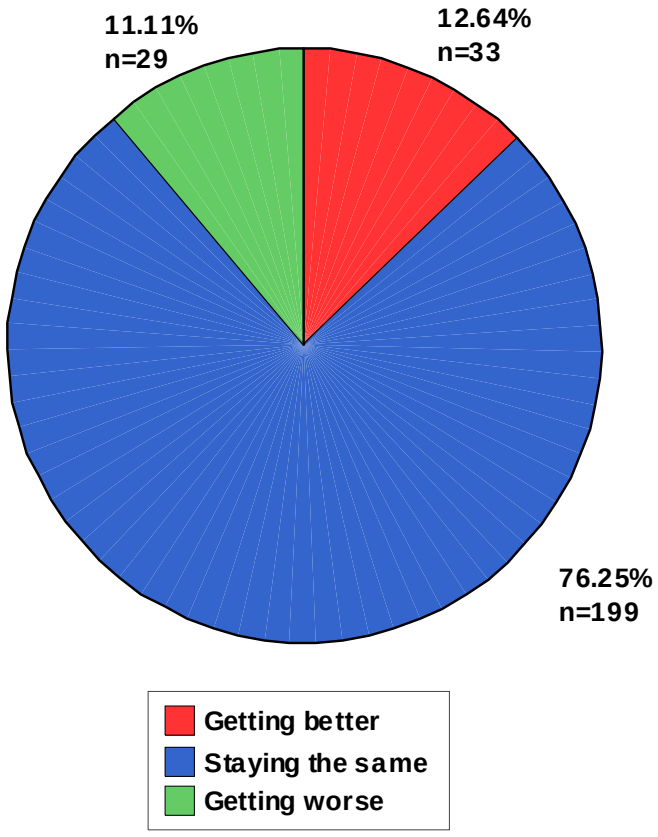
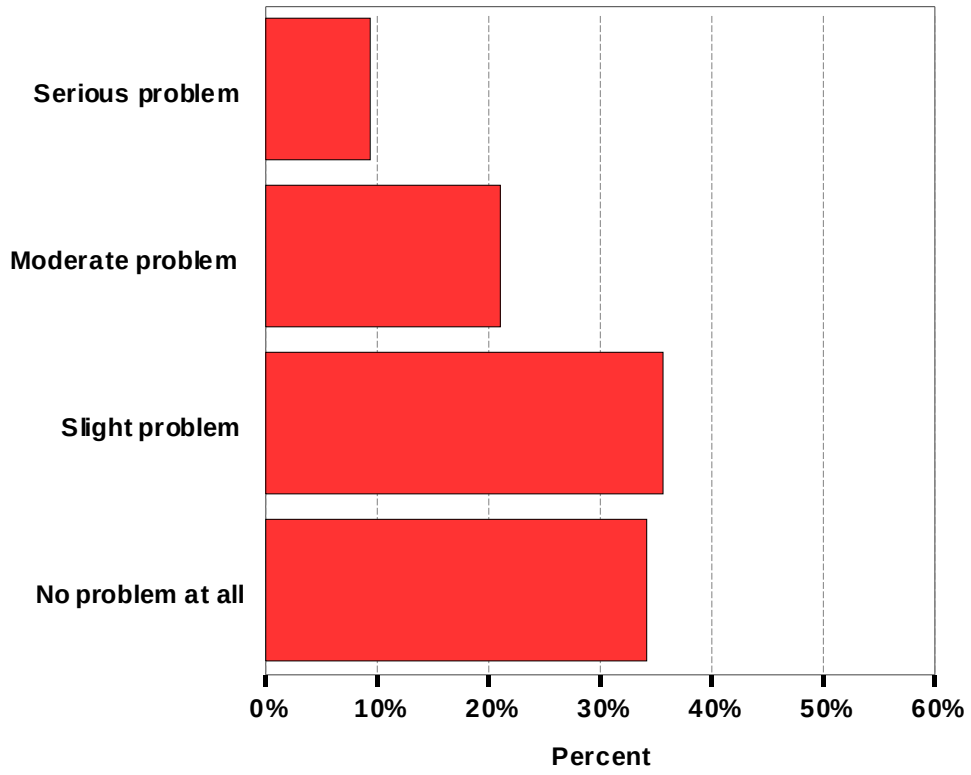


Figure 64a

Issue: Quality of local schools

(n = 267)



Mean	**2.056**
Standard deviation	**0.962**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 64b

Because of the development of natural gas, quality of local schools is:

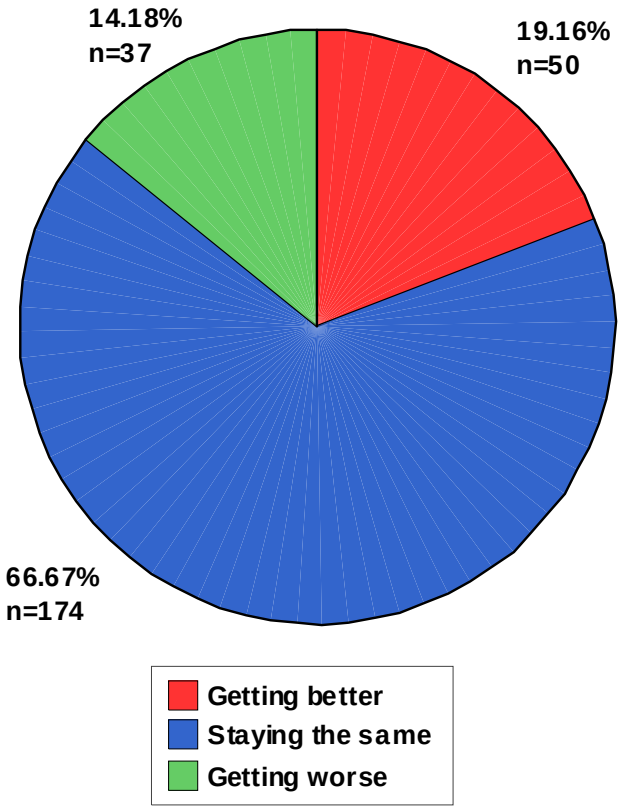
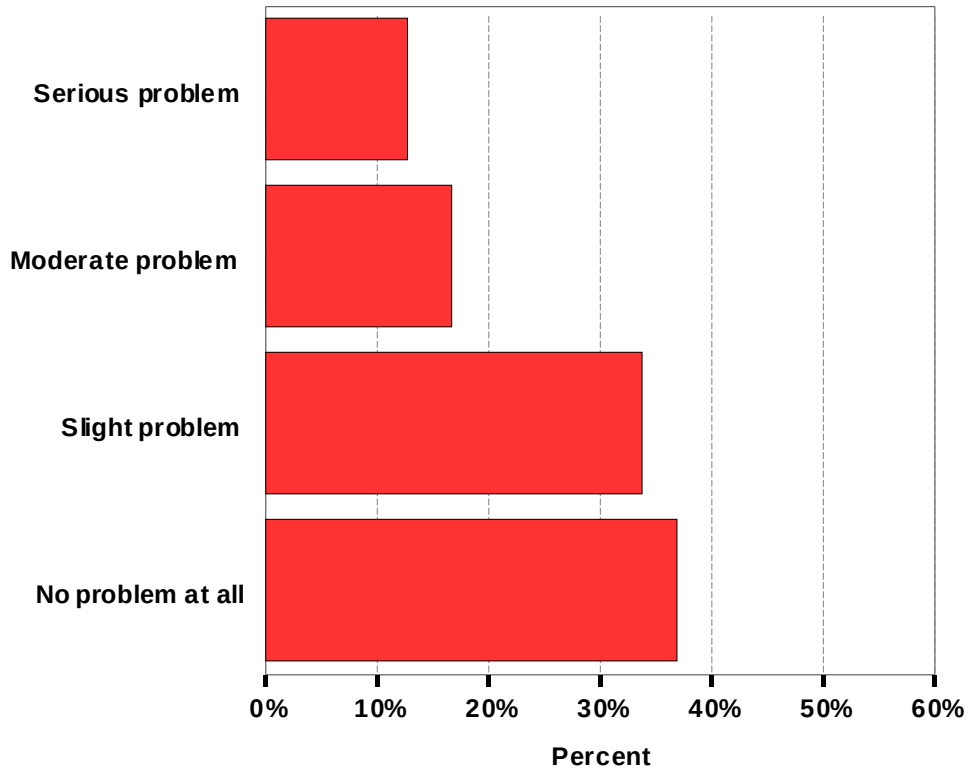


Figure 65a

Issue: Odors/fumes from drilling equipment
(n = 269)



Mean	**2.052**
Standard deviation	**1.021**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 65b

Because of the development of natural gas, odors/fumes from drilling equipment are:

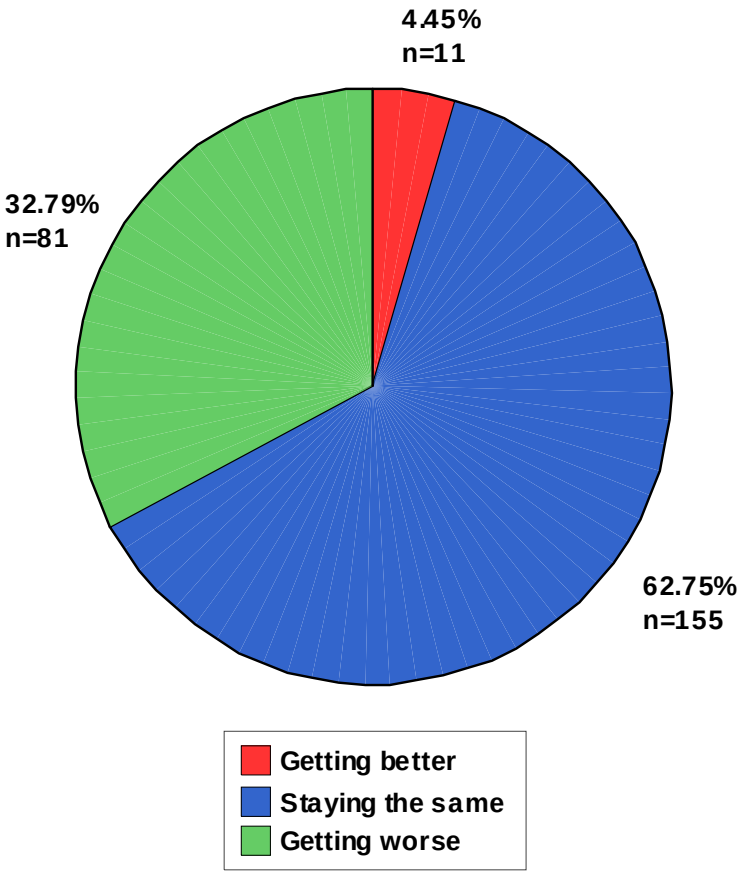
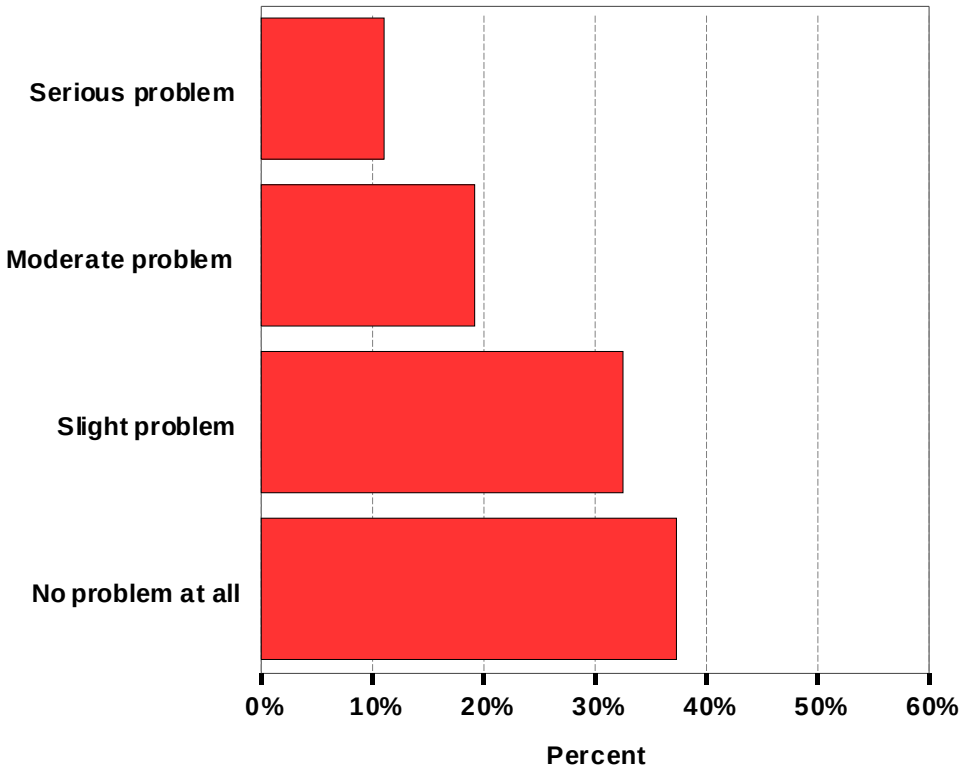


Figure 66a

Issue: Light from gas drilling operations
(n = 271)



Mean	**2.041**
Standard deviation	**1.005**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 66b

Because of the development of natural gas, light from gas drilling operations is:

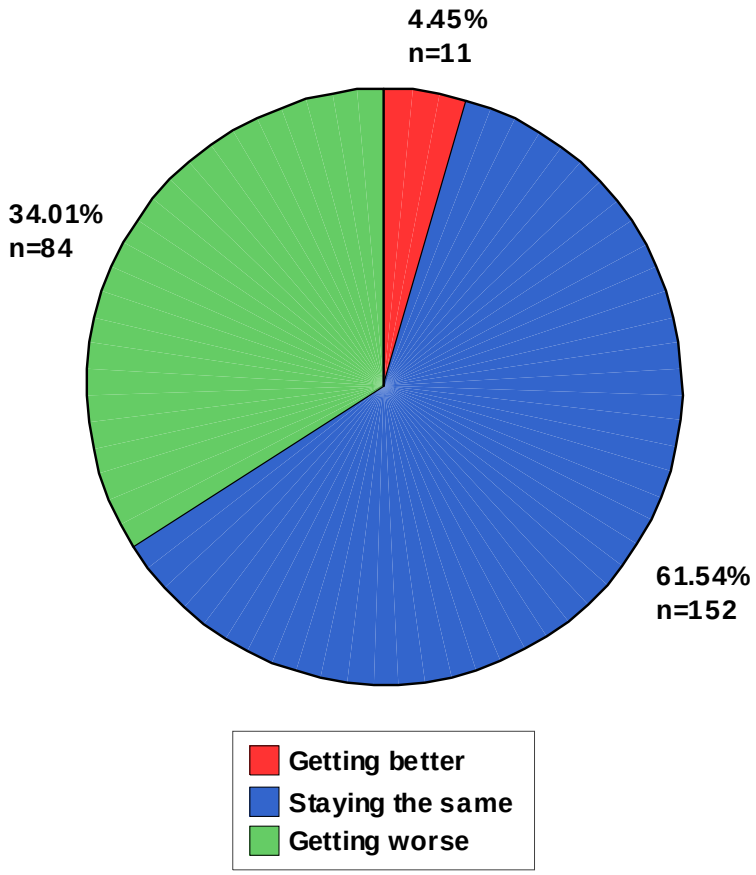
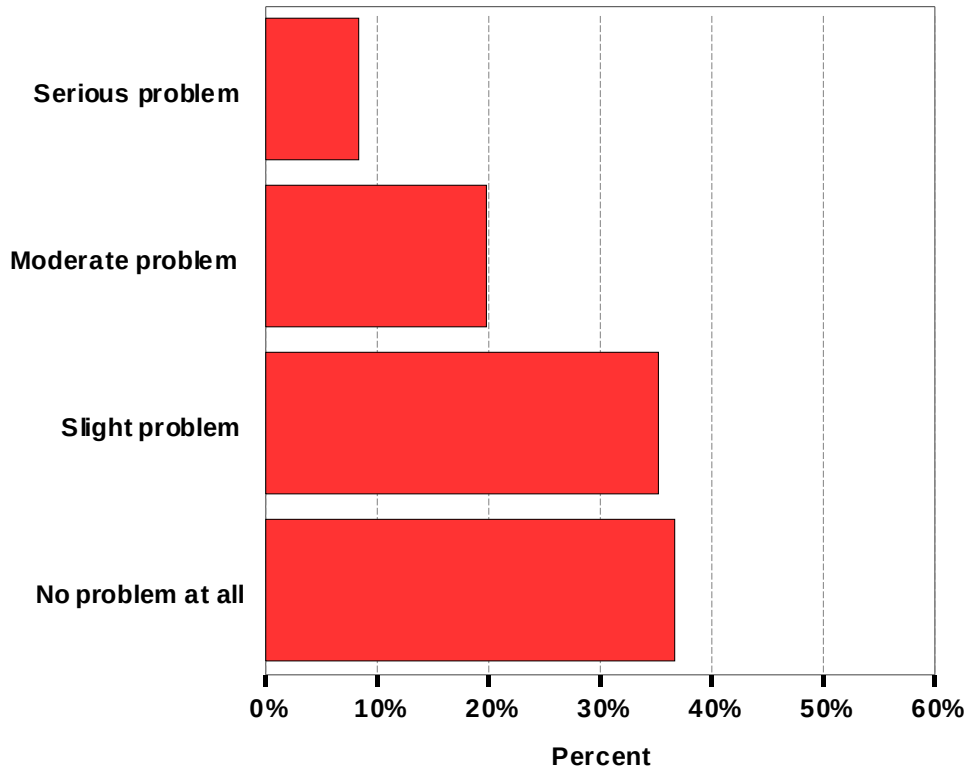


Figure 67a

Issue: Fire protection services

(n = 273)



Mean	**2.000**
Standard deviation	**0.951**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 67b

Because of the development of natural gas, fire protection services are:

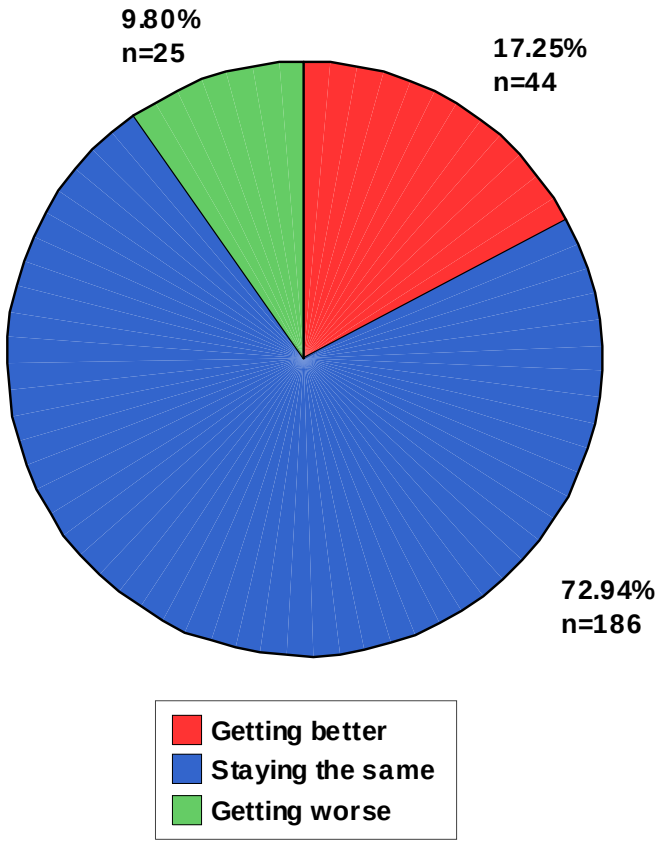
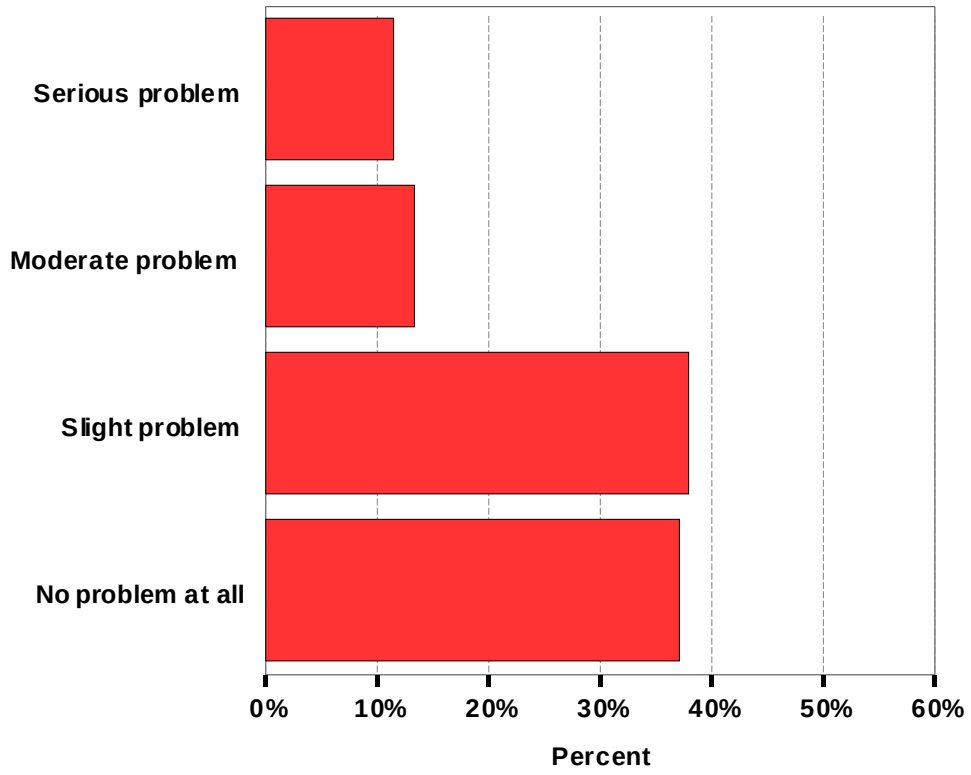


Figure 68a

Issue: Gas well explosions

(n = 269)



Mean	**1.993**
Standard deviation	**0.985**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 68b

Because of the development of natural gas, gas well explosions are:

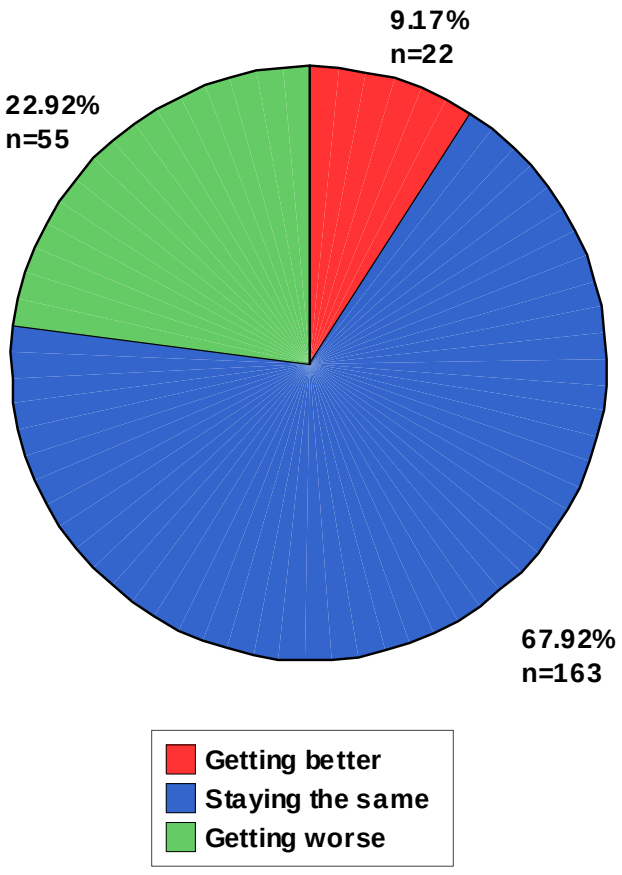
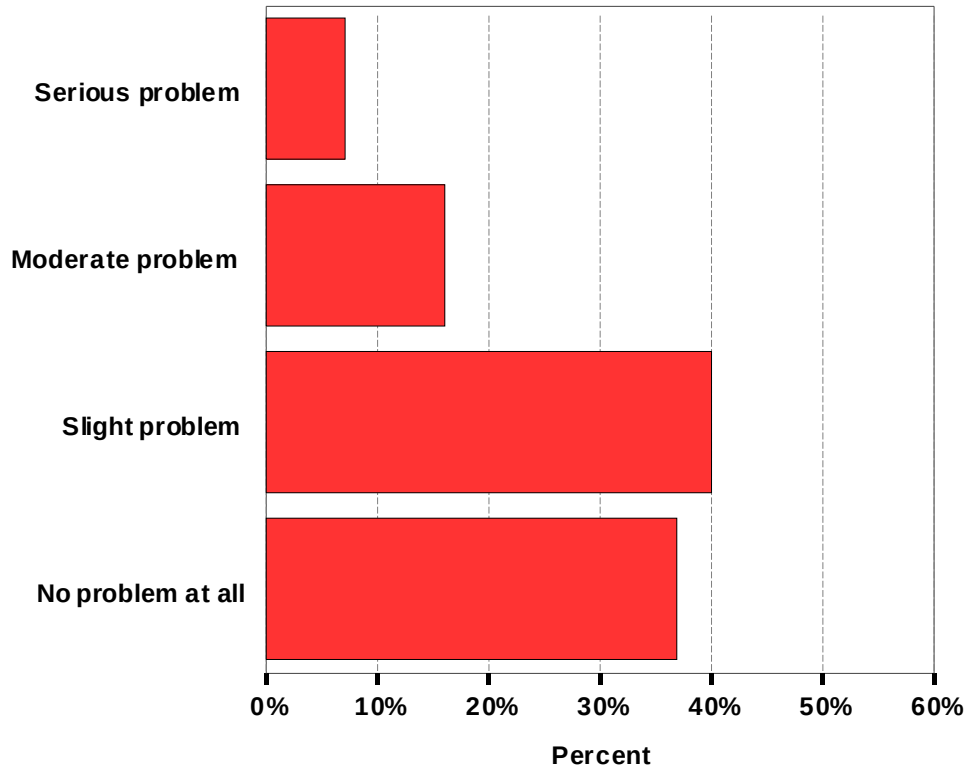


Figure 69a

Issue: Disagreements among local residents

(n = 268)



Mean	**1.933**
Standard deviation	**0.901**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 69b

Because of the development of natural gas, disagreements among local residents are:

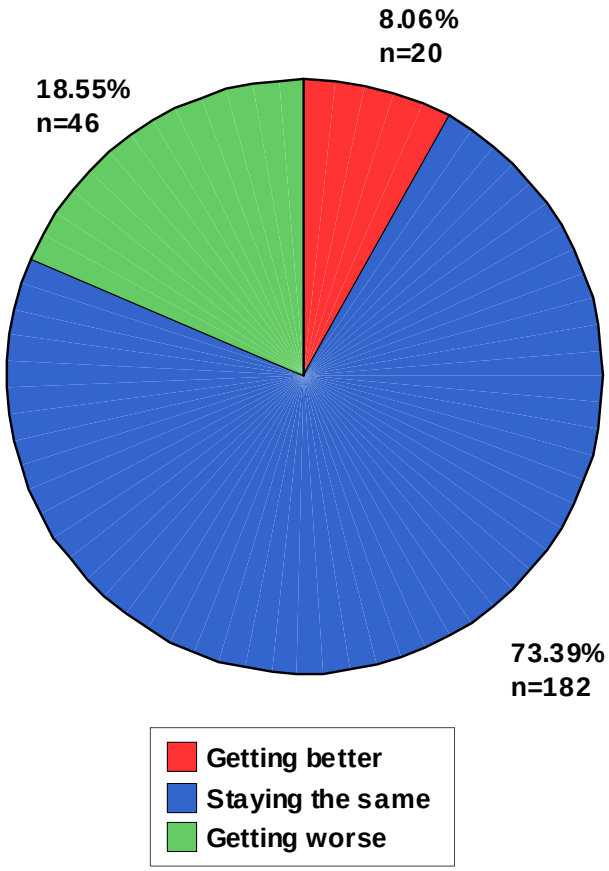
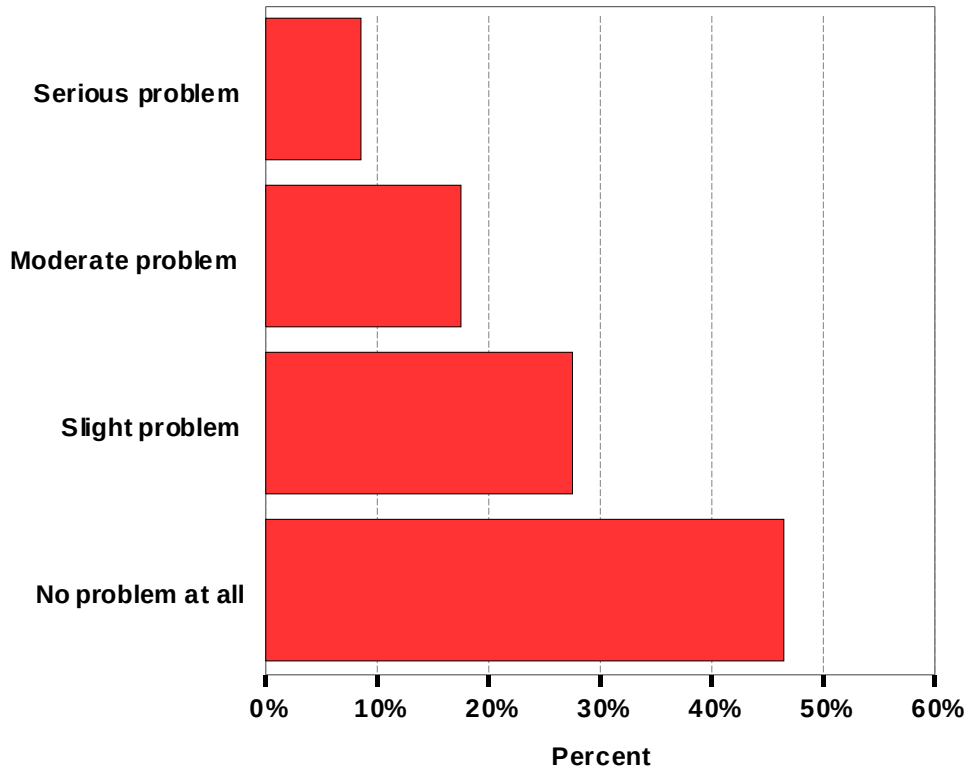


Figure 70a

Issue: Too much industrial development

(n = 269)



Mean	**1.881**
Standard deviation	**0.985**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 70b

Because of the development of natural gas, too much industrial development is:

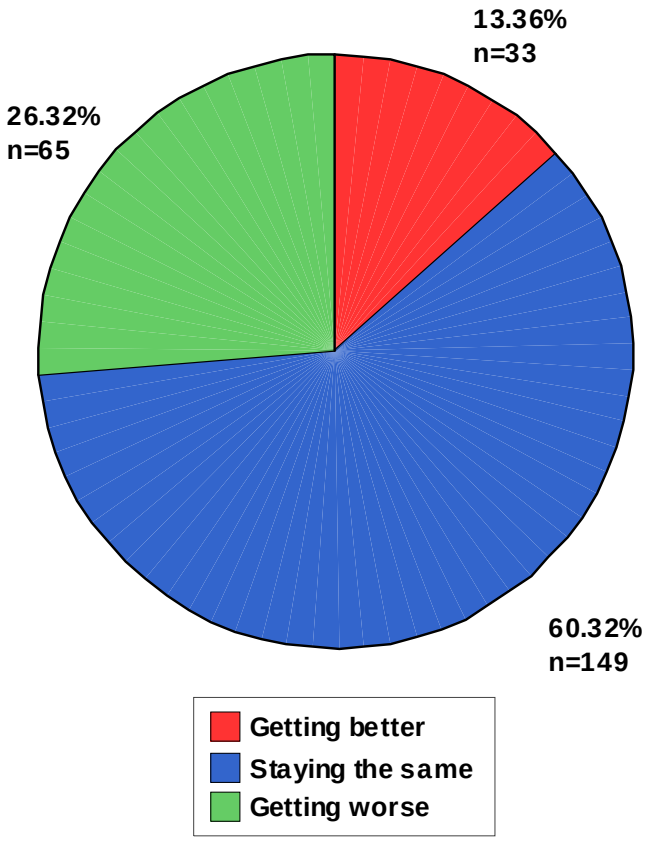
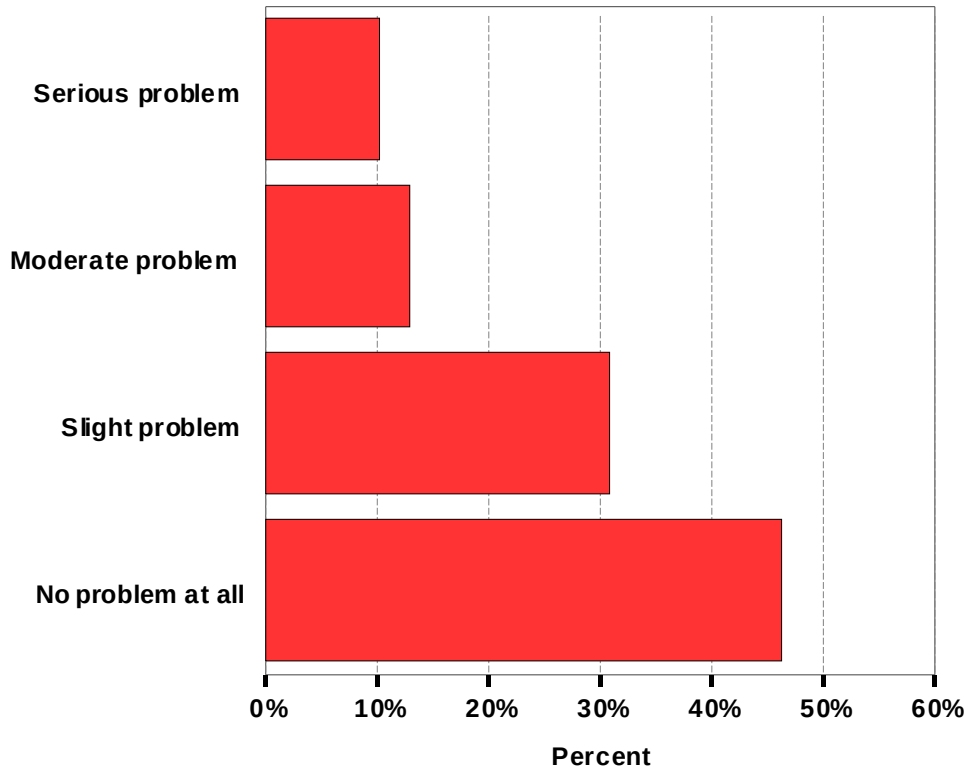


Figure 71a

Issue: Too much commercial development

(n = 273)

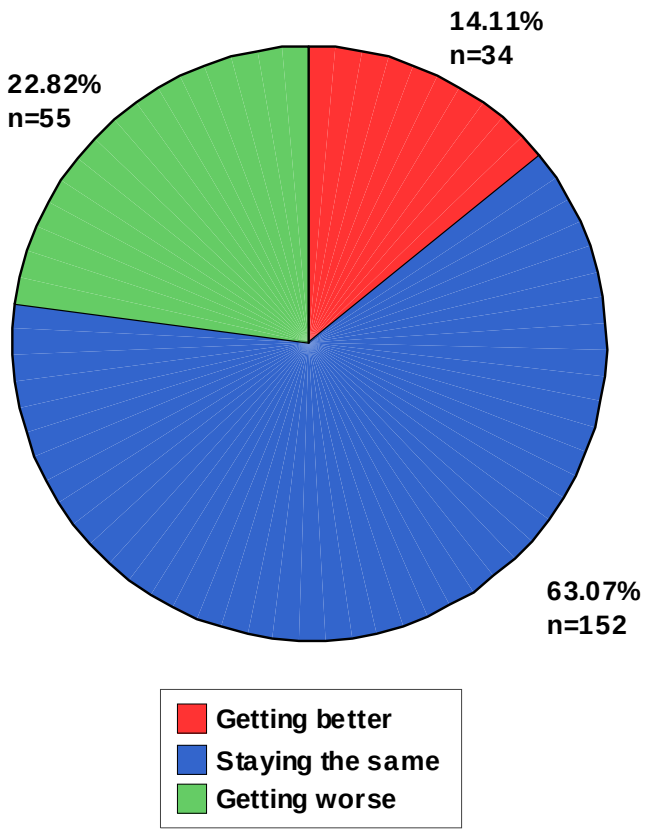


Mean	**1.872**
Standard deviation	**0.994**

(coding: 1 = no problem at all; 2 = slight problem; 3 = moderate problem; 4 = serious problem)

Figure 71b

Because of the development of natural gas, too much commercial development is:



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Section V

Actions Which May or May Not Have Been Taken in Response to the Exploration and Production of Natural Gas in Johnson County

This section deals with eight actions which residents may or may not have taken in response to exploration and production of natural gas in Johnson County. Survey respondents were asked to indicate whether or not they had engaged in such actions. Respondents were then asked to indicate their likelihood of engaging in such actions in the future. The results are summarized below.

Figures 72a through 79a illustrate the extent to which respondents had engaged in such actions. Figures 72b to 79b illustrate the likelihood of engaging in such actions in the future.

Figure 72a

Action: Attended a meeting to get information and learn more about the drilling and production of natural gas

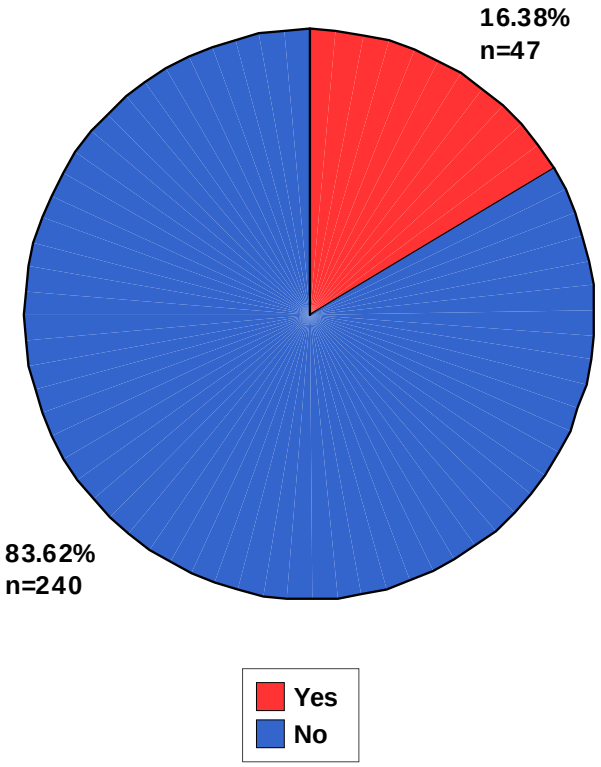


Figure 72b

Likelihood in the future: To attend a meeting to get information and learn more about the drilling and production of natural gas

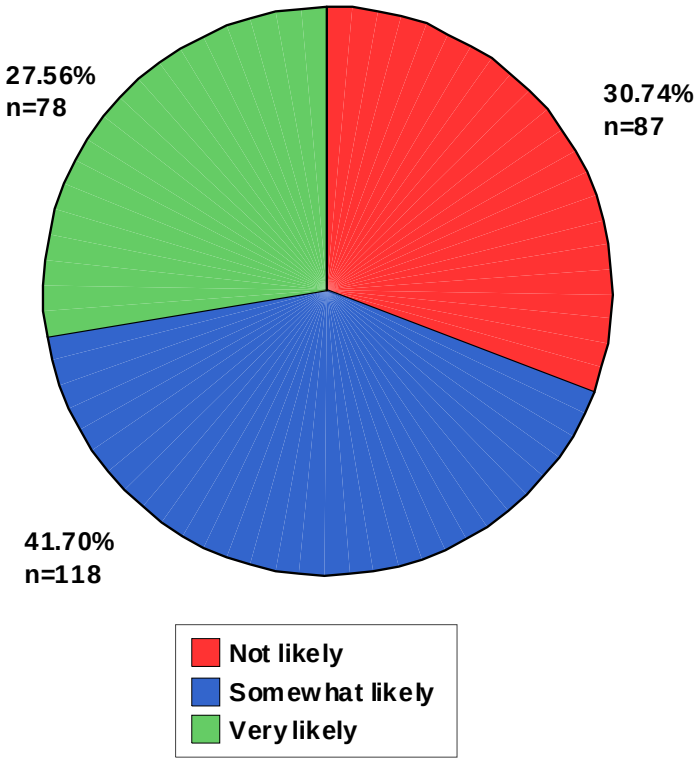


Figure 73a

Action: Contacted a local elected official or governmental agency to complain about a natural gas drilling and/or production issue

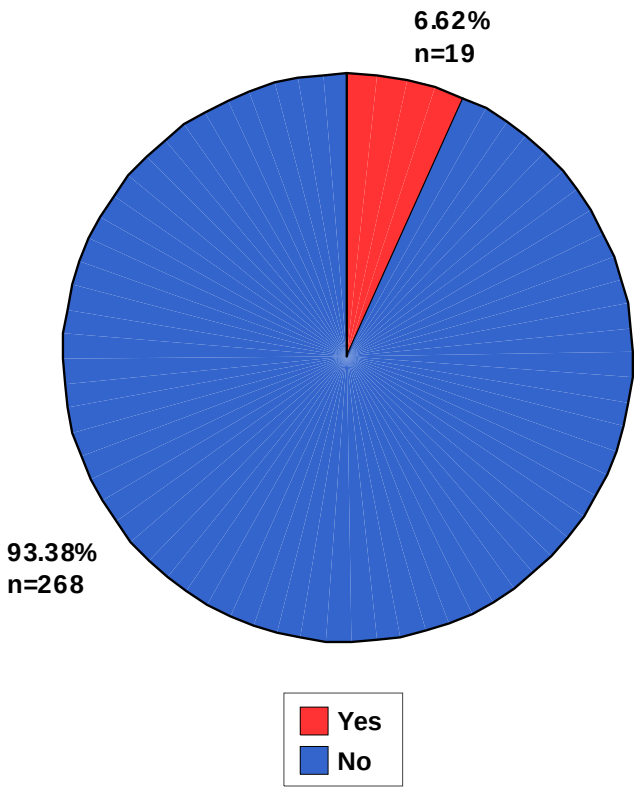


Figure 73b

Likelihood in the future: To contact a local elected official or governmental agency to complain about a natural gas drilling and/or production issue

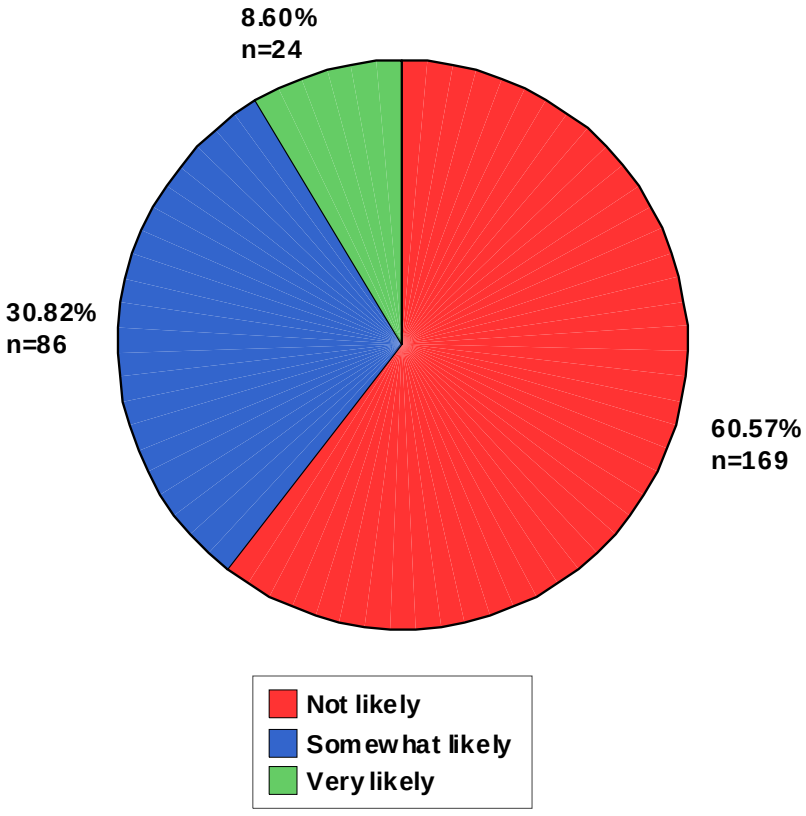


Figure 74a

Action: Voted FOR a political candidate because of his/her position on the drilling and/or production of natural gas

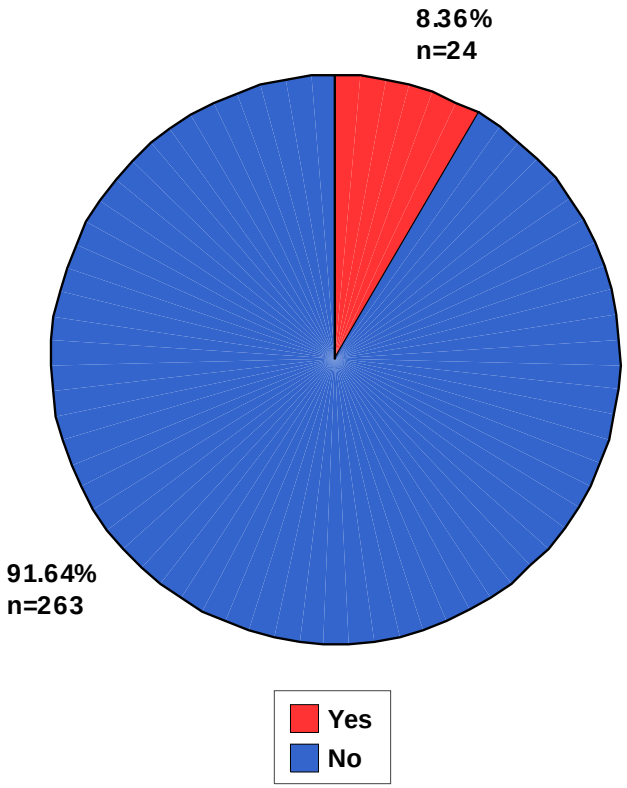


Figure 74b

Likelihood in the future: To vote FOR a political candidate because of his/her position on the drilling and/or production of natural gas

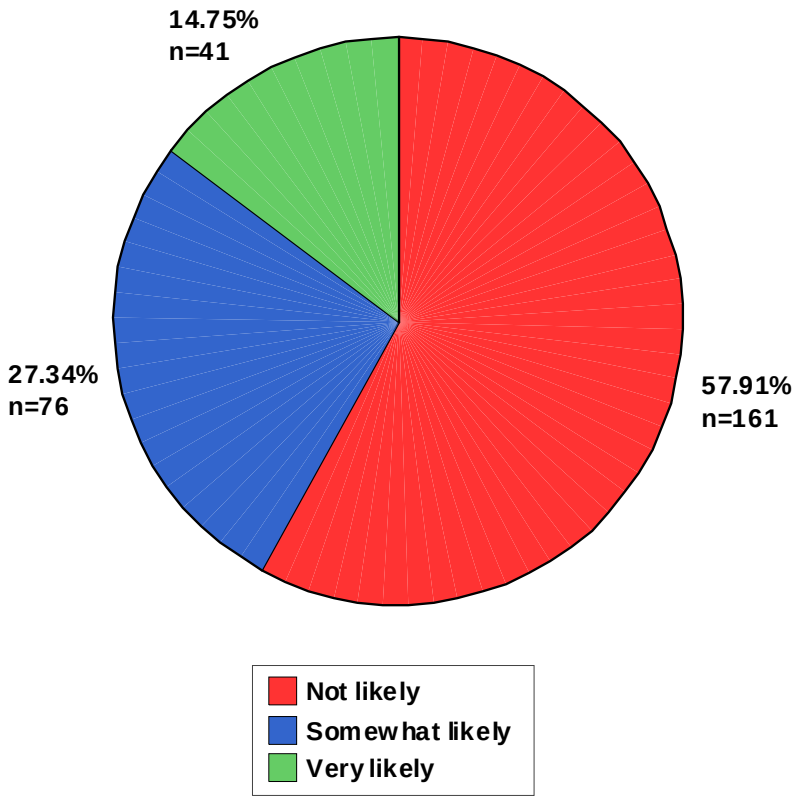


Figure 75a

Action: Voted AGAINST a political candidate because of his/her position on the drilling and/or production of natural gas

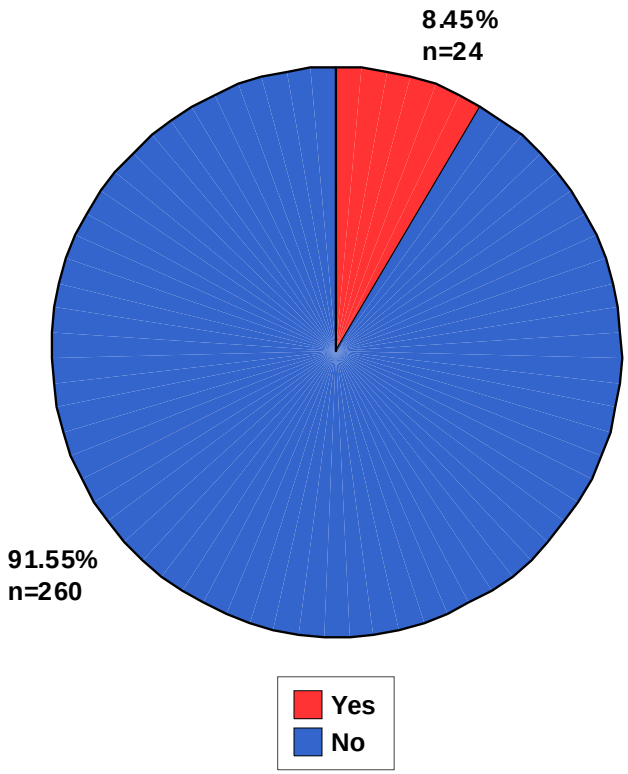


Figure 75b

Likelihood in the future: To vote AGAINST a political candidate because of his/her position on the drilling and/or production of natural gas

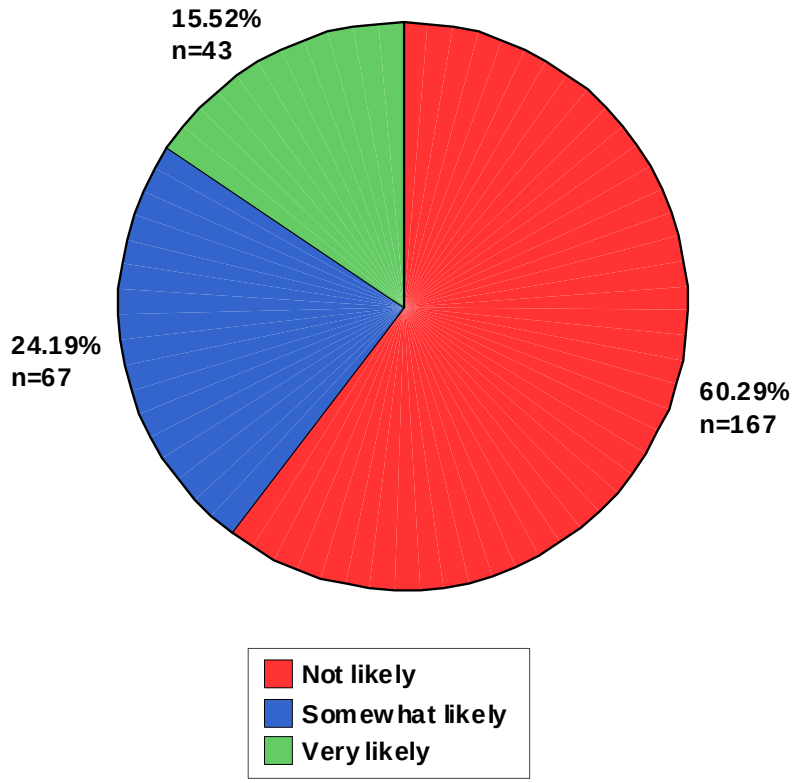


Figure 76a

Action: Attended a gas industry-sponsored meeting to get information and learn more about leasing options

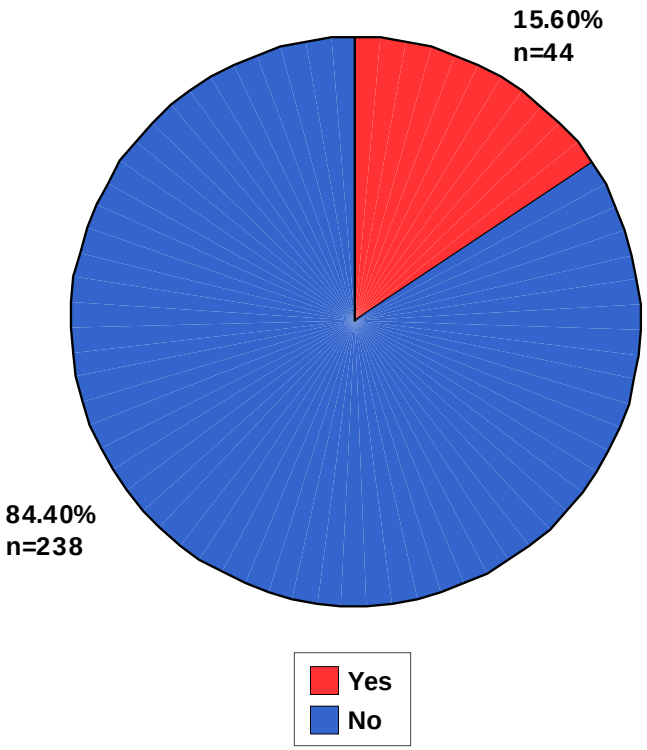


Figure 76b

Likelihood in the future: To attend a gas industry-sponsored meeting to get information and learn more about leasing options

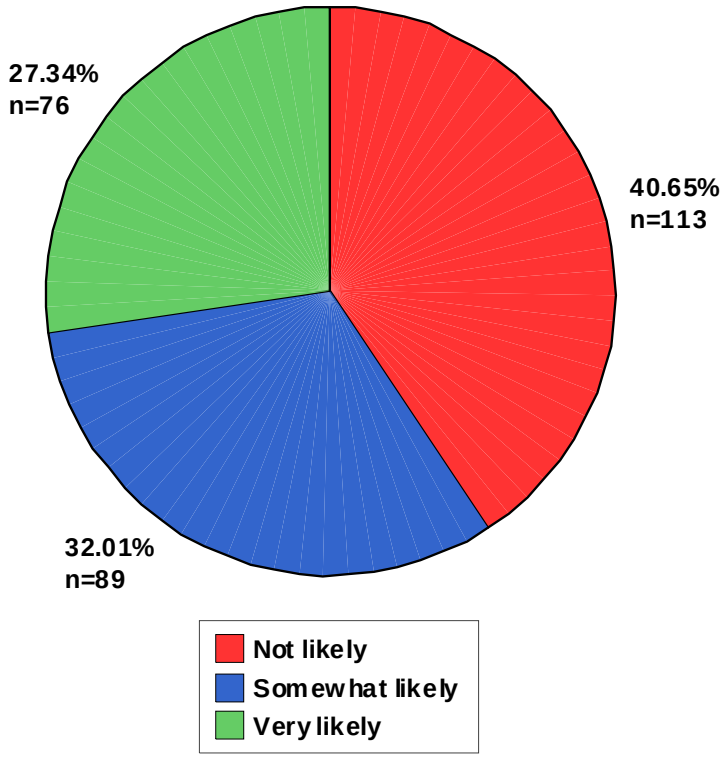


Figure 77a

Action: Attended a public meeting to OPPOSE the continued exploration and production of natural gas

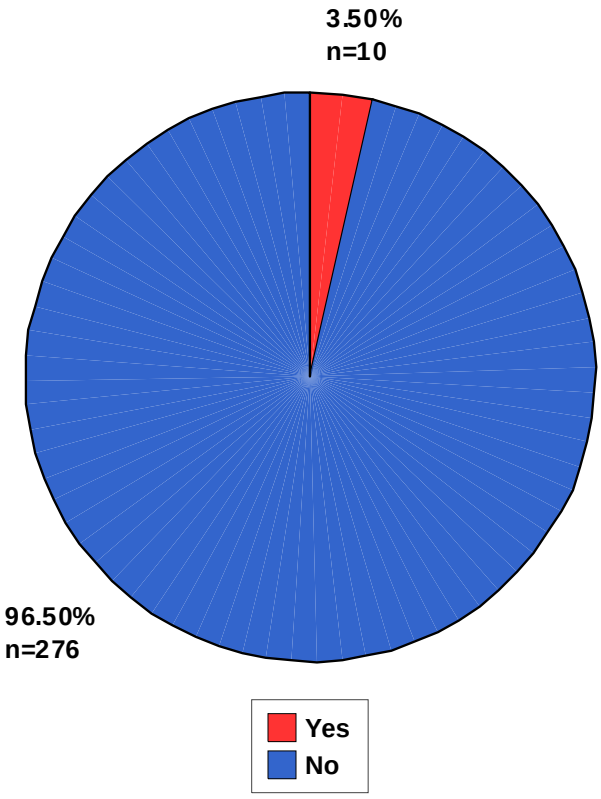


Figure 77b

Likelihood in the future: To attend a public meeting to OPPOSE the continued exploration and production of natural gas

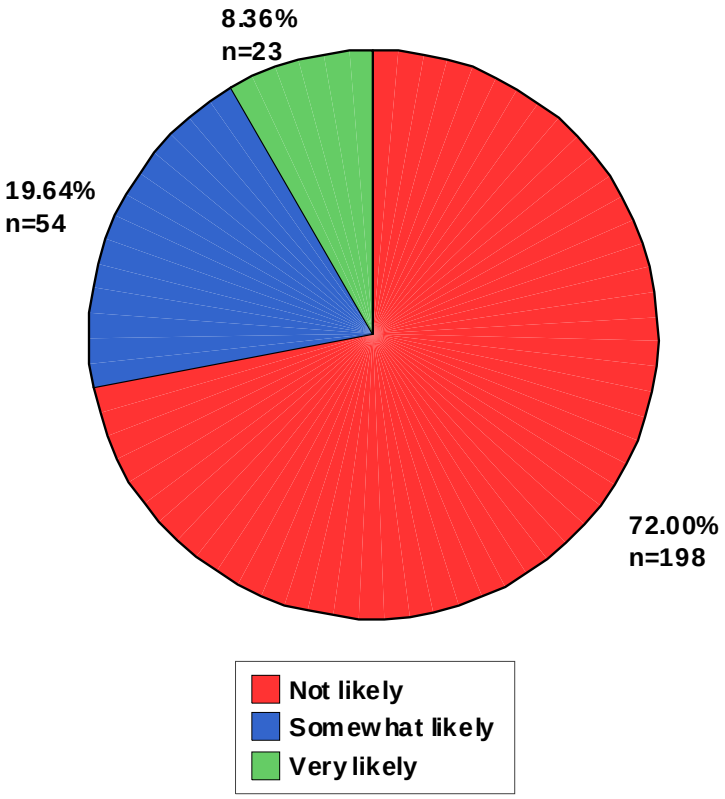


Figure 78a

Action: Attended a public meeting to SUPPORT the continued exploration and production of natural gas

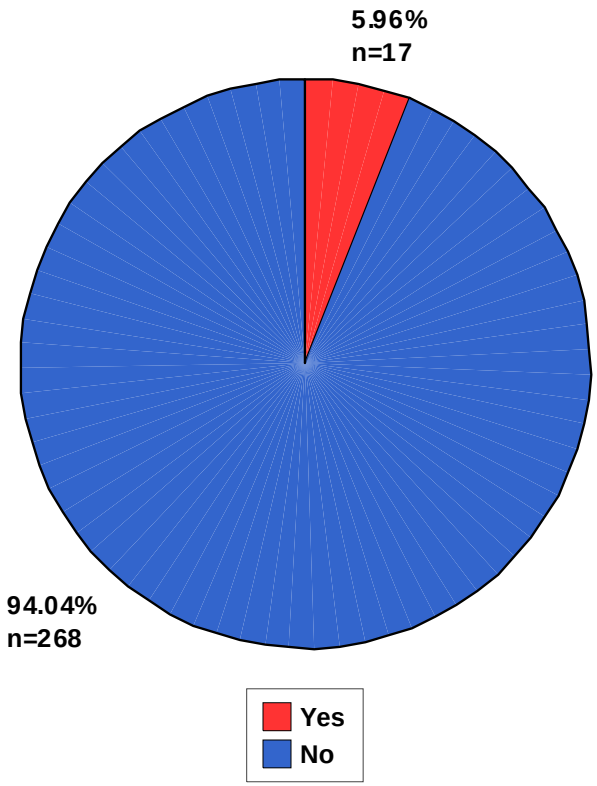


Figure 78b

Likelihood in the future: To attend a public meeting to SUPPORT the continued exploration and production of natural gas

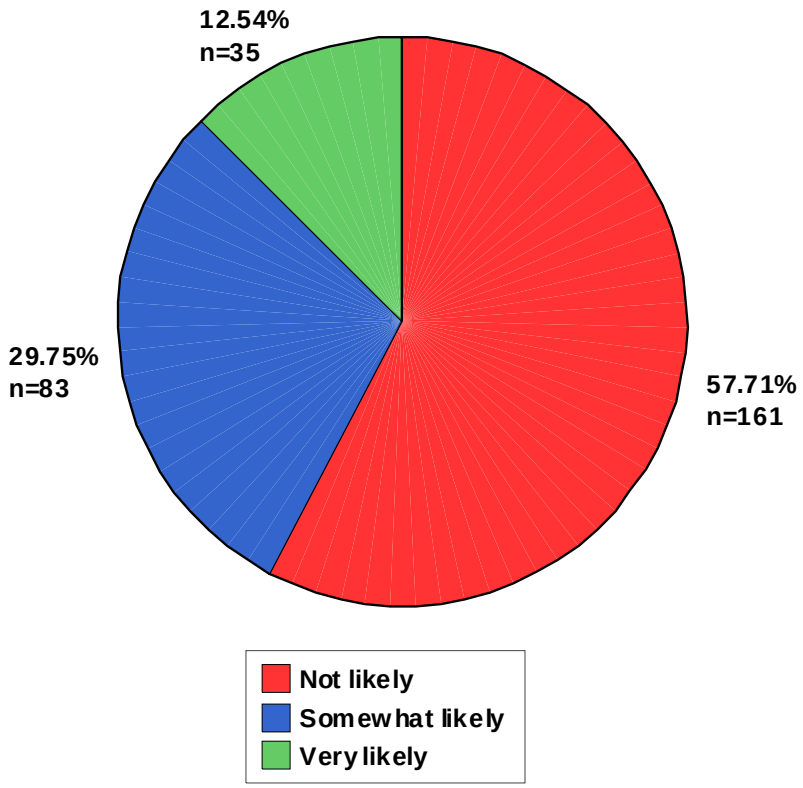


Figure 79a

Action: Wrote and mailed a letter to the editor of your local newspaper

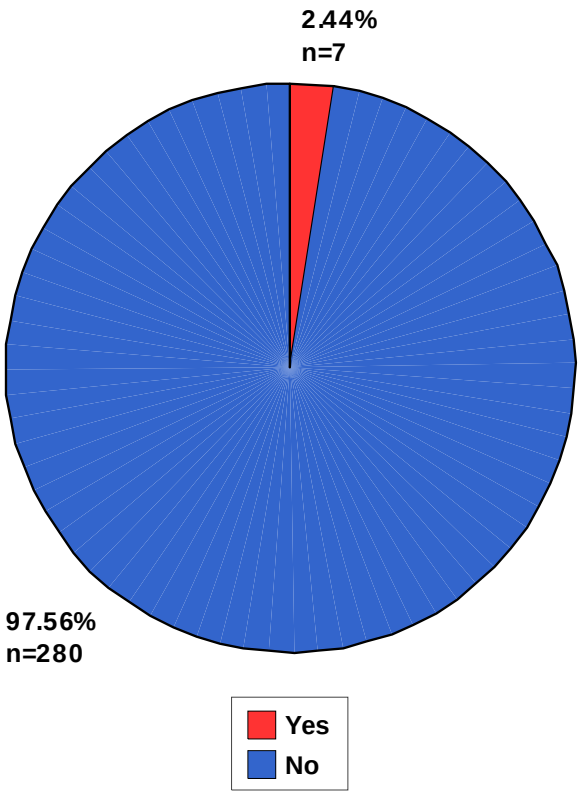
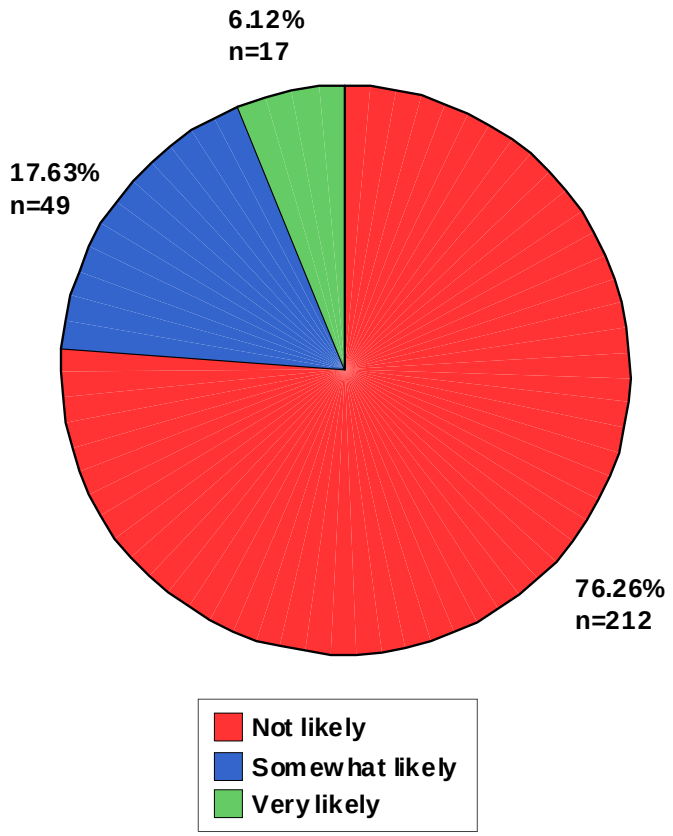


Figure 79b

Likelihood in the future: To write and mail a letter to the editor of your local newspaper



Section VI

Desalination of water

Desalination is a process by which salt and other contaminants are removed from the water produced in gas and oil operations. With desalination technology, such water is treated and purified, in turn, creating a beneficial freshwater resource that can be used in many different ways.

Figures 80 through 82 and Tables 1 and 2 summarize respondents' level of familiarity with desalination and their attitudes toward the process.

Figure 80

How familiar are you with the process of desalination?

(n = 273)

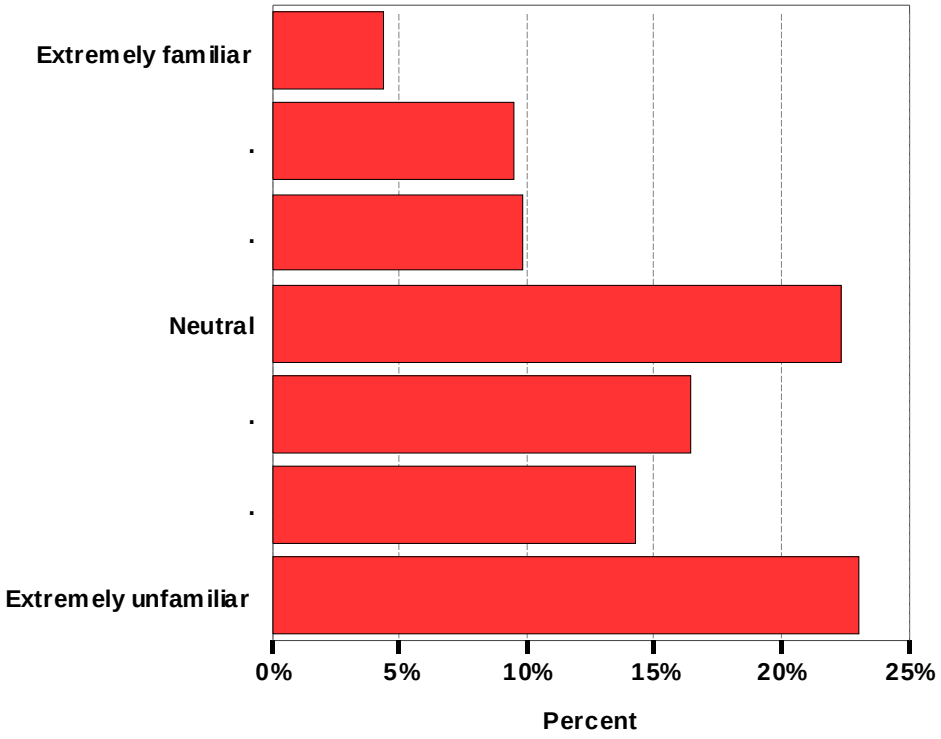


Table 1

A ranking of ways desalinated water from gas and oil field operations might safely be used

Ways desalinated water could be safely used:	Yes	No
Re-use by gas and oil industry operators (n = 271)	93.0%	7.0%
Industrial use (e.g., manufacturing, etc.) (n = 267)	92.9%	7.1%
Municipal uses (e.g., watering golf courses and city parks, etc.) (n = 263)	81.4%	18.6%
Home irrigation purposes (e.g., watering lawns and shrubs, etc.) (n = 266)	77.8%	22.2%
Irrigation of farmland and/or rangeland (n = 267)	68.5%	31.5%
Maintenance of stream flows/reservoir levels (n = 261)	59.0%	41.0%
Aquifer recharge (n = 247)	52.2%	47.8%
Watering of livestock (n = 260)	49.2%	50.8%
People's drinking water (n = 258)	26.0%	74.0%

Figure 81

What is your level of confidence that desalinated water from gas and oil field operations could meet HUMAN DRINKING WATER quality and purity standards?

(n = 279)

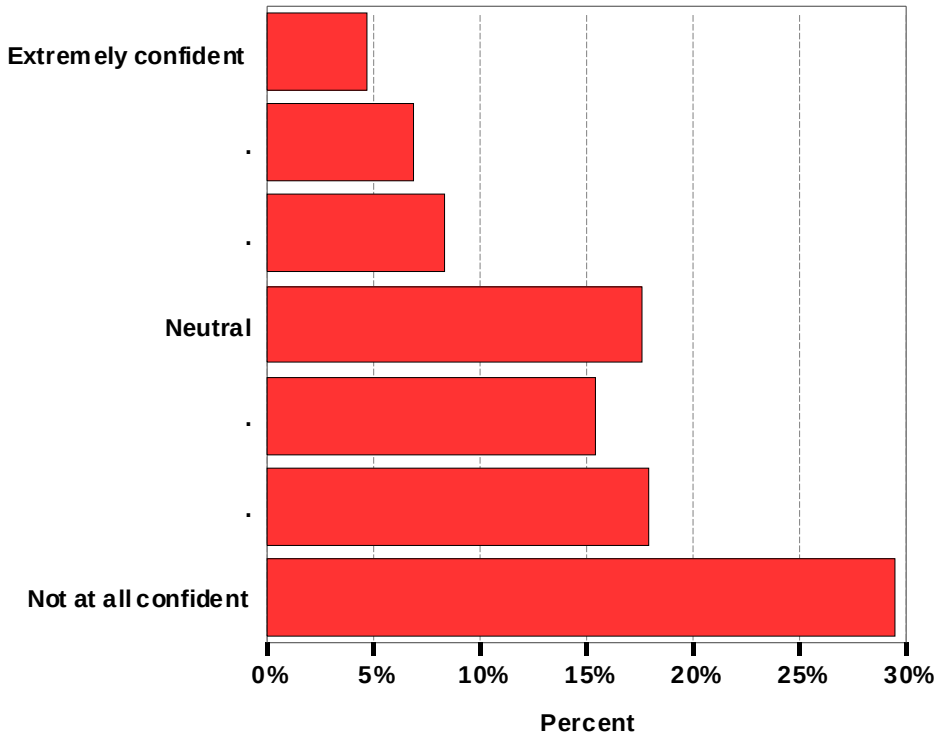


Figure 82

Should industry operators be required to desalinate water produced in the drilling and production of oil and natural gas?

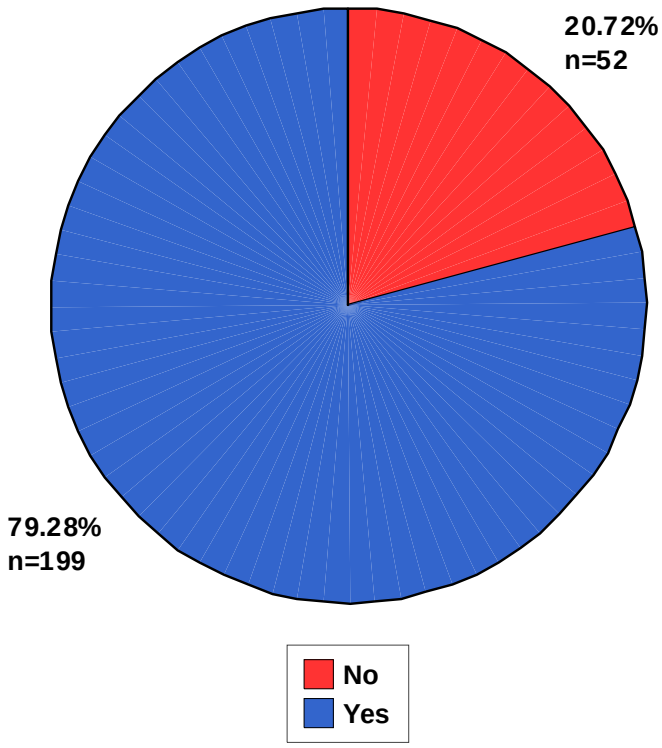


Table 2

A ranking of who might be likely to buy desalinated water if available for purchase

Who might be likely to buy desalinated water:	Yes	No
Industrial users (n = 264)	79.9%	20.1%
Farmers (n = 264)	61.0%	39.0%
Developers (n = 263)	51.3%	48.7%
Ranchers (n = 263)	48.7%	51.3%
Business owners (n = 264)	42.0%	58.0%
Rural water systems (n = 264)	33.7%	66.3%
Municipal water systems (n = 264)	32.6%	67.4%
Home owners (n = 264)	24.2%	75.8%
People like me (n = 264)	20.1%	79.9%

Section VII

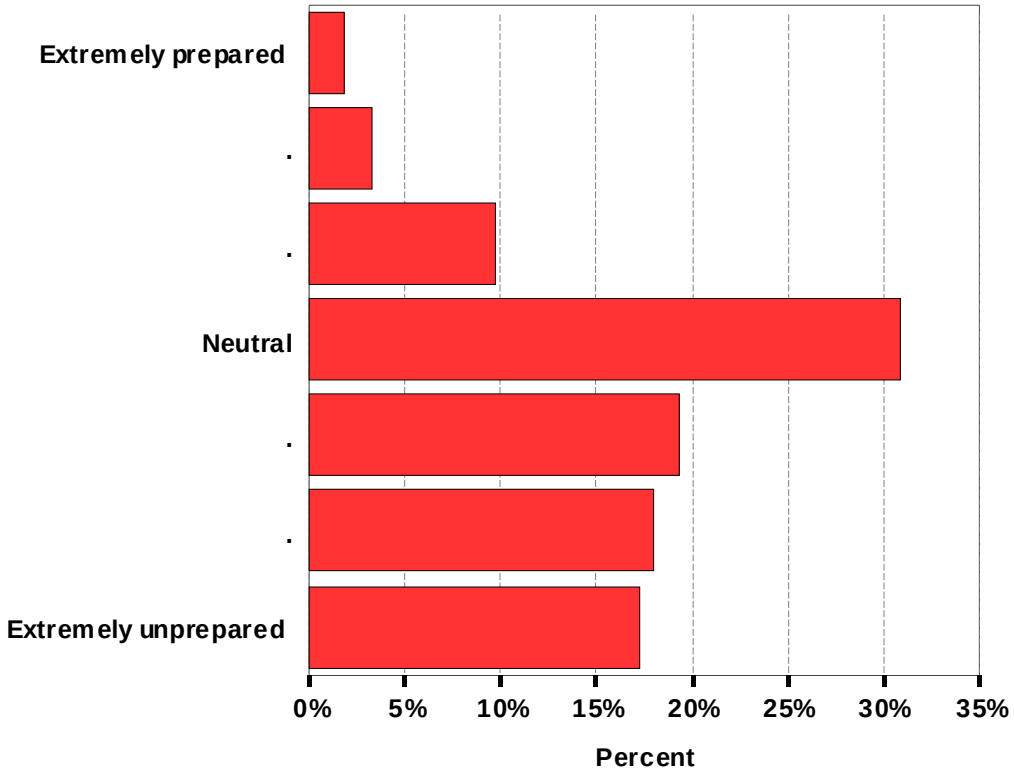
Preparedness of Local Leaders

This final item (Figure 83) deals with residents' perceptions of the preparedness of local leaders for the large-scale exploration and production of natural gas in Johnson County.

Figure 83

How prepared, overall, do you think LOCAL LEADERS were for the large-scale exploration and production of natural gas in Johnson County?

(n = 279)



Note