

Natural Gas Drilling Effects on Municipal Governments in the Marcellus Shale Region (Part IV)

Local Government Survey Results from Clinton and Lycoming Counties

This column is presented weekly by the Public Education sub-committee of the Clinton County Natural Gas Task Force in an effort to provide accurate, up-to-date information on activities surrounding the Marcellus Shale formation and the natural gas exploration industry. For more information on Task Force activities, visit the Task Force page on the Clinton County government website at www.clintoncountypa.com.

This is the last of a four-part series highlighting the results of an economic impact study conducted by the Marcellus Shale Education and Training Center, a partnership of Penn College of Technology and Penn State Extension.

The economic impact survey was sent to nearly 500 Pennsylvania townships, boroughs and cities in a 12-county region, which included Clinton and Lycoming Counties. The survey was conducted in the fall of 2010 and was designed to provide insights into what occurred across the Marcellus Shale region.

Responses were received from 10 of 29 Clinton County municipalities, and 37 of 52 Lycoming County municipalities (response rate of 58 percent). Of the respondents, 23 reported that Marcellus Shale-related natural gas drilling or development currently is occurring in their municipality. The analysis below represents responses from these 23 (2 are in Clinton County, and 21 are in Lycoming County).

Please indicate whether or not the development or drilling of Marcellus Shale has increased or decreased each of the following areas. If there has not been an impact on a certain area, please check "No Change" for that area.

		<u>Population</u>			
Q8A	Frequency	Percent	Cumulative Frequency	Cumulative Percent	

Increased	10	43.48	10	43.48	
No Change	13	56.52	23	100.00	

		<u>Road maintenance</u>			
Q8B	Frequency	Percent	Cumulative Frequency	Cumulative Percent	

Increased	15	65.22	15	65.22	
No Change	8	34.78	23	100.00	

		<u>Road construction</u>			
Q8C	Frequency	Percent	Cumulative Frequency	Cumulative Percent	

Increased	6	27.27	6	27.27	
No Change	16	72.73	22	100.00	

Frequency Missing = 1

Tourism

Q8D	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	1	4.55	1	4.55
Decreased	1	4.55	2	9.09
No Change	20	90.91	22	100.00

Frequency Missing = 1

School enrollment

Q8E	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	9	39.13	9	39.13
No Change	14	60.87	23	100.00

Property values

Q8F	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	11	47.83	11	47.83
Decreased	2	8.70	13	56.52
No Change	10	43.48	23	100.00

Crime

Q8G	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	4	17.39	4	17.39
No Change	19	82.61	23	100.00

Use of emergency services

Q8H	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	7	30.43	7	30.43
No Change	16	69.57	23	100.00

Unemployment

Q8I	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Decreased	6	26.09	6	26.09
No Change	17	73.91	23	100.00

Employment

Q8J	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	11	47.83	11	47.83
No Change	12	52.17	23	100.00

Residential construction

Q8K	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	2	9.09	2	9.09
No Change	20	90.91	22	100.00

Frequency Missing = 1

Hotel construction

Q8L	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	5	21.74	5	21.74
No Change	18	78.26	23	100.00

Other commercial construction

Q8M	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	7	30.43	7	30.43
No Change	16	69.57	23	100.00

Workforce migration into municipality

Q8N	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	12	52.17	12	52.17
No Change	11	47.83	23	100.00

Community conflict

Q8O	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	5	21.74	5	21.74
No Change	18	78.26	23	100.00

Water use/disposal

Q8P	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	12	52.17	12	52.17
No Change	11	47.83	23	100.00

Manufacturing

Q8Q	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	3	13.04	3	13.04
No Change	20	86.96	23	100.00

Water quality

Q8R	Frequency	Percent	Cumulative Frequency	Cumulative Percent
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Decreased	4	17.39	4	17.39
No Change	19	82.61	23	100.00

Air quality

Q8S	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Decreased	3	13.04	3	13.04
No Change	20	86.96	23	100.00

Stormwater runoff

Q8T	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	6	26.09	6	26.09
No Change	17	73.91	23	100.00

Other environmental issues

Q8U	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Increased	3	17.65	3	17.65
No Change	14	82.35	17	100.00

Frequency Missing = 6

The survey was written by Timothy W. Kelsey, professor of agricultural economics and Melissa M. Ward, graduate student of rural sociology and human dimensions of natural resources and the environment, Penn State, with Tracy Brundage (Penn College), Jim Ladlee (Penn State), Jeff Lorson (Penn College), Larry Michael (Penn College), and Tom Murphy (Penn State).