

Western North Dakota Energy Project

Marcellus Shale Policy and Revenue Implications for Pennsylvania

January 27, 2012

The Center for

Rural Pennsylvania A Legislative Agency of the Pennsylvania General Assembly

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The Center for Rural Pennsylvania

A legislative research agency of the Pennsylvania General Assembly

(Act 16, 1987)

Mandates

- Administer grants to conduct research on rural conditions.
 - Maintain a database on rural conditions and needs.

The Center for Rural Pennsylvania Research Efforts

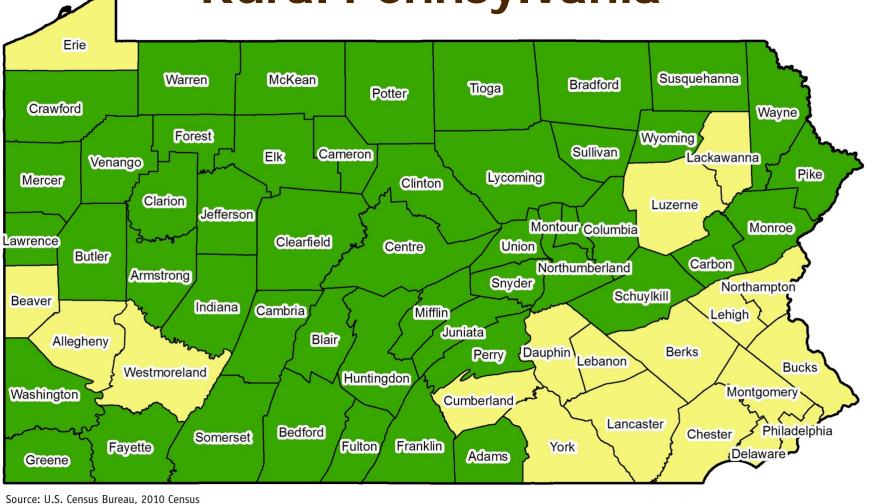
- Health Professional and Medically Underserved Areas (Re)Designations
- Area Health Education Centers (AHECs)
- K-12 Distance Learning
- Private Well Water Quality
- Main Street/Elm Street
 Programs
- Statewide Heritage Tourism
- Agritourism
- PA Bluprints Land Use







Rural Pennsylvania

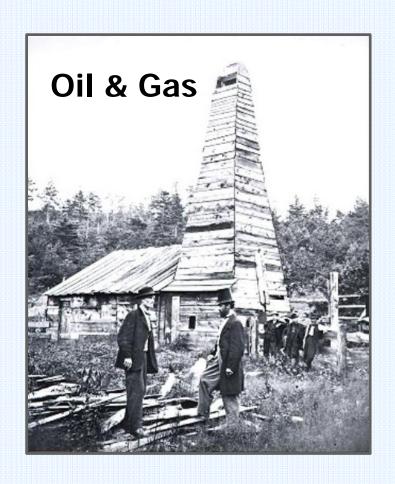


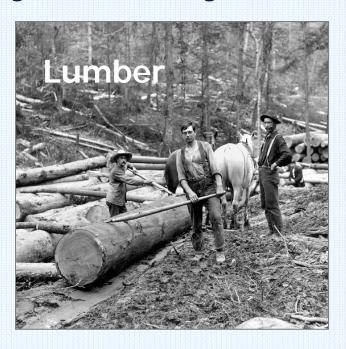


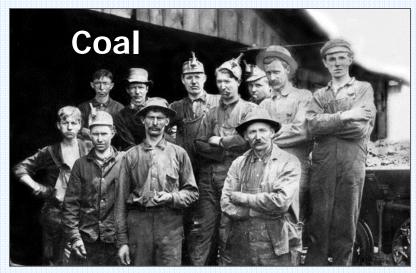
Rural

Urban

Extraction History in Pennsylvania





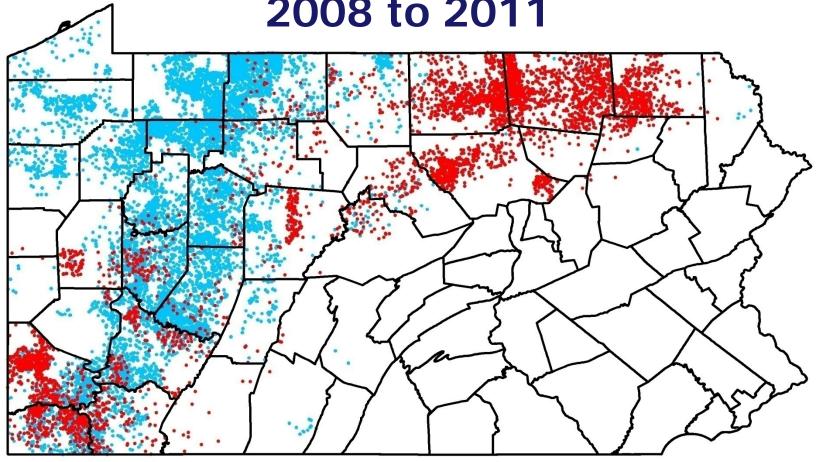


Boom and Bust Cycles

Rural Pennsylvania is no stranger to the boom and bust cycles of the extraction industries

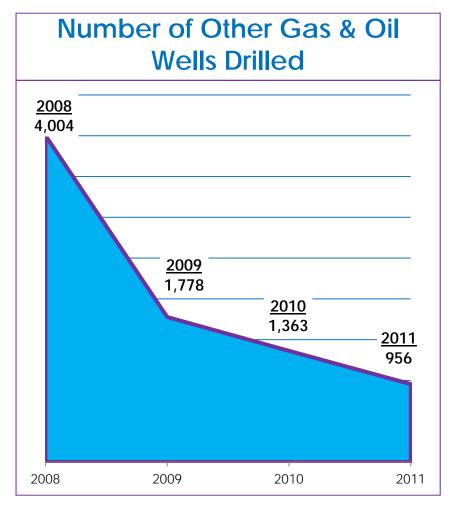
- Oil and Gas 1860's to 1910's
- Lumber 1880's to 1900's
- Coal 1880's to 1920's

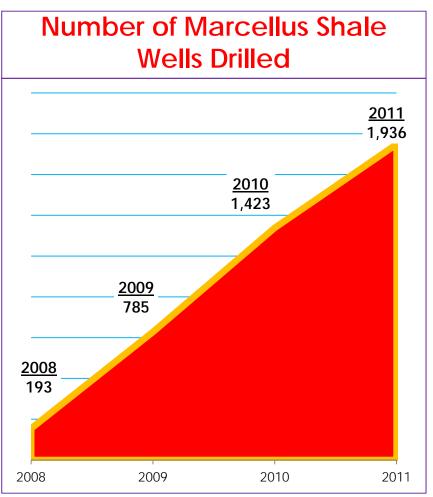
Number of Gas and Oil Wells Drilled, 2008 to 2011



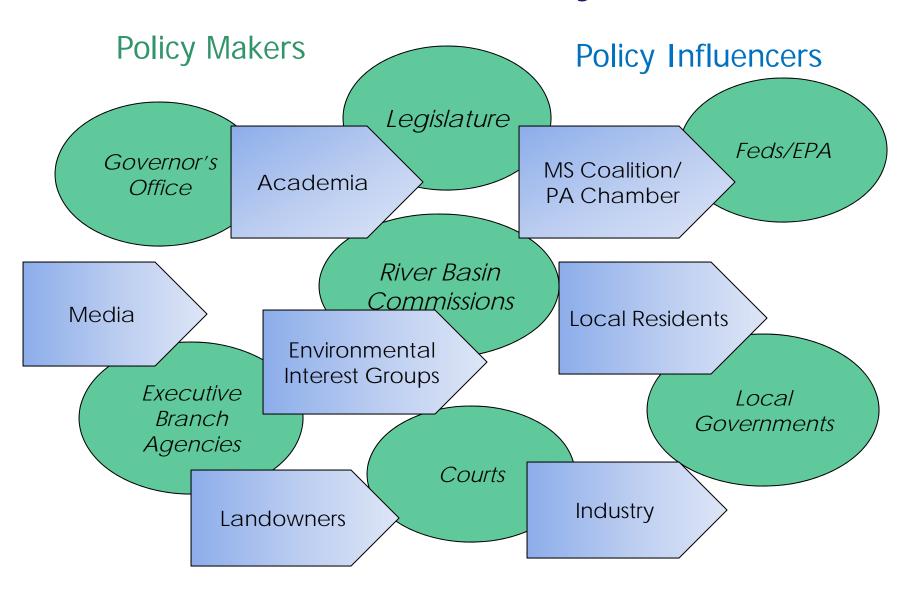
Red Dot = 1 Marcellus Shale Well Blue Dot = 1 Other Gas or Oil Well

Number of Gas and Oil Wells Drilled, 2008 to 2011

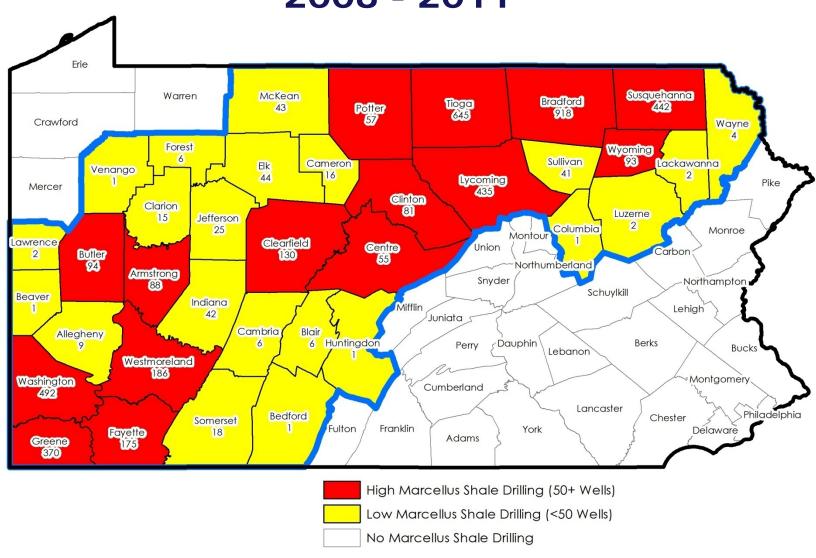




Marcellus Shale Policy Discussion



Marcellus Shale Drilling Activity, 2008 - 2011



Statewide Marcellus Shale Policy Implications

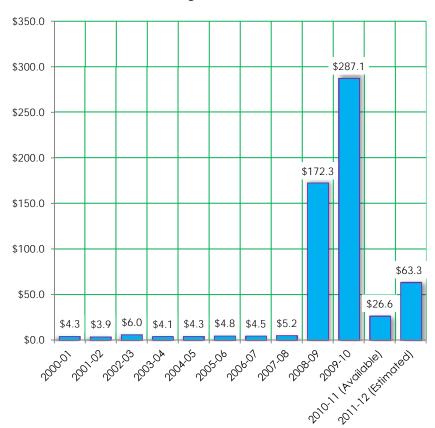
- Revenues
- Fees
- Taxes
- Environment
- Community
- Work Force Development
- Infrastructure
- Property Rights
- PA Local Governments



Revenues

- State Forest Land Leases
- Drilling Permit Fees
- Other Related Revenues (sales tax, etc.)

Pennsylvania Oil & Gas Lease Fund Revenue (In Adjusted \$ Million)



- All revenues and royalties from oil and gas leases in state-owned land must go into Oil & Gas Lease Fund.
 - Funds intended to be used for conservation, recreation and flood control.
 - Funds used to purchase 26 State Parks.
 - In 2009 some Funds were diverted to General Fund.
- 700,000 acres of state forest land currently being leased.
 - In 40% of that land, the state does not own oil/gas rights.

Data source: Pennsylvania Office of the Budget

Fees

- House and Senate Legislation Addressing Impact Fees
 - HB 1150: creates a per-well fee at the county level that begins at \$40,000 and shrinks to \$10,000-per-well over the levy's 10-year lifespan.
 The measure keeps 75 percent of revenue at the local level, and sends the rest to a handful of state agencies.
 - SB 1100: creates a 20-year fee, with a per-well rate beginning at \$50,000. The fee would be collected on the state, not county, level, and would give counties and municipalities hosting wells 55 percent of fee revenue.
 - Both plans limit local revenue to counties hosting drillers, rather than distributing it throughout the state. The two proposals also share nearidentical language restricting municipalities' abilities to zone and regulate natural gas drilling.
- How the Legislation is Playing Out

Environment





- Disposal of Brine Waste Water
 - treatment facilities
- Private Well Water
 - Set backs, infiltration, no regs. on construction, well drillers.
- Forest Fragmentation
- Gathering/Transmission Lines
- Clean Up from Accidents and Spills
 - Cost, local response time, volunteers, emergency preparedness plans.
- Drilling in State-Owned Forest Lands
 - Environmentalists, tourism

Community



- Haves and Have Nots
- Housing
- Health Care
- Crime
- Quality of Life Changes
- Tourism
- Zoning
- Emergency Response Capabilities

Work Force Development





- Workforce Availability
 - Lack of skilled workers
 - Work ethic
 - Drug testing
- Labor Shortages
- Local vs. Out-of-Area
- Entrepreneurship
- Recruiting of Post-Drilling-Related Industries

Infrastructure



- Road Repairs
 - Industry reports spending \$40 million
- Gathering/Transmission Lines
- Road Bonding State law 1978
 - Up to \$12.5k per paved road mile
- Telecommunications





Property Rights

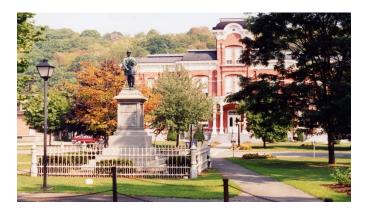
- Pooling
- Mineral Rights vs. Property Rights
- Royalties
- Leasing
- Well Setback
- Local Zoning
 - H/S bills would declare gas drilling as a "permitted use" in all zoning districts
 - > 150 municipalities have adopted > 145 ordinances (land use, road restrictions, noise, well setbacks)



Pennsylvania Local Governments







- 67 Counties
- 2,562 Municipalities
- Limited Staff and Professional Capacity
 - Title searches, etc.
 - Limited local police force
- County Emergency
 Planning and Local
 Volunteer EMS/Fire-Rescue
- Road Maintenance

Current Bills and Pending Legislation

Legislation Targeting Marcellus Shale Industry 2011-2012 Session								
Category*	House	Senate	Total	Referred to Committee	Floor Vote	Adopted		
Fees, penalties, taxes	13	4	17	17	-	-		
Drinking water quality	6	4	10	10	1	-		
Moratoriums on Drilling/Permits	4	3	7	7	-	-		
Emergency preparedness	4	2	6	6	1	-		
Increase environmental protection regs.	3	2	5	5	1	-		
Tax credits for Marcellus industry	3	-	3	3	-	-		
Training and certification of workers	-	1	1	1	-	-		
Using acid mine water for fracking	-	1	1	1	1	1		

Legislation	House	Senate	Total	
Bills	17	10	27	
Resolutions	3	2	5	
Democrat Prime Sponsor	12	9	21	
Republican Prime Sponsor	10	3	13	

^{*}categories are not mutually exclusive

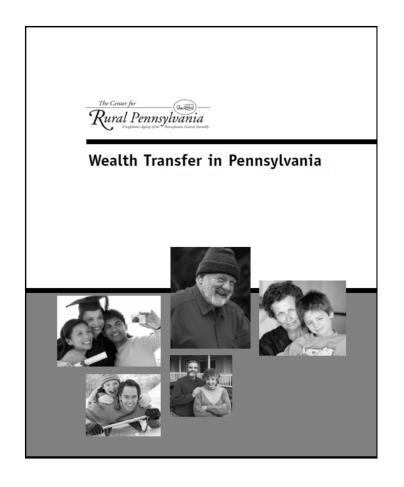
Regular Session Legislation
2011-2012 27 Bills, 5 Resolutions
2009-2010 9 Bills
2007-2008 1 Bill

Pennsylvania Programs and Studies

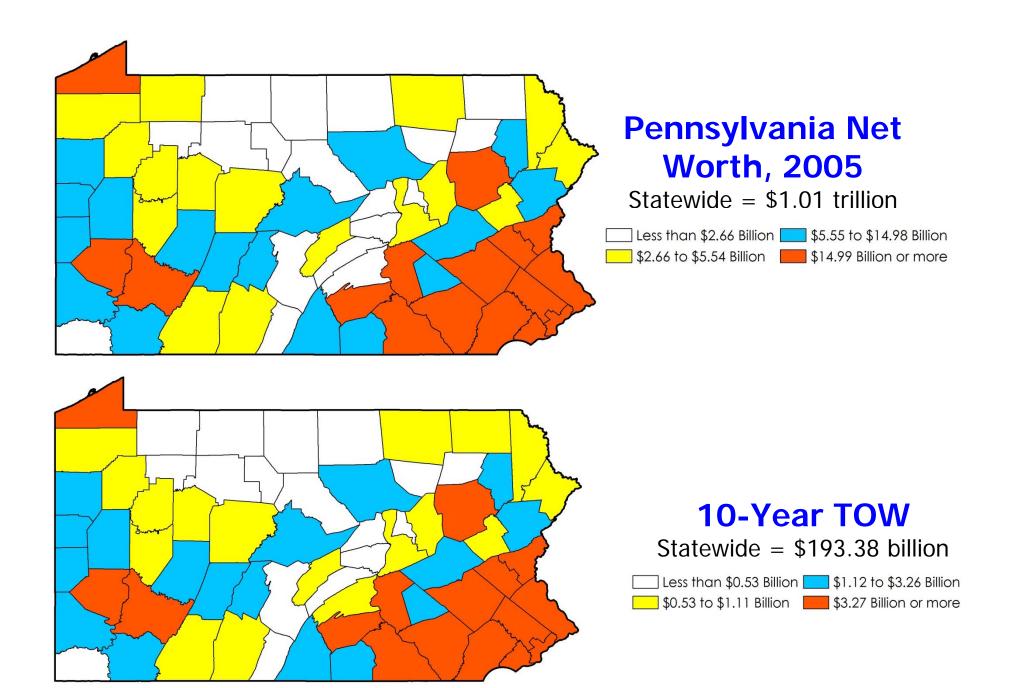
- Penn State University
 - Marcellus Shale Outreach and Education Center
- Cooperative Extension
- Univ. of Pitt School of Public Health
- Private Colleges
 - Lycoming College, Wilkes University
- Geisinger Hospital
- The Center for Rural Pennsylvania
 - Private water wells
 - Six-year longitudinal study
 - Opportunities for wealth transfer



Transfer of Wealth in Pennsylvania



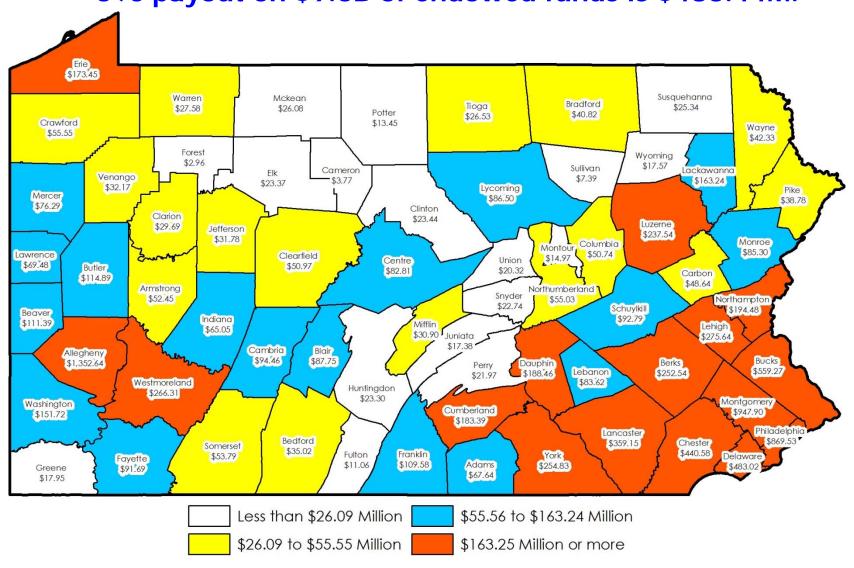
- Based on 2005 data.
- Published in 2008.
- Measured the wealth in Pennsylvania, by county.
- Determined how much of this wealth will be transferred from one generation to the next and when.
- Estimated how much of this wealth transfer can be "captured" for community development.
- 50-year TOW for Pennsylvania is \$1.17 trillion.
- TOW figures are pre-recession but also pre-Marcellus Shale.



5% Capture for the 10-Year TOW

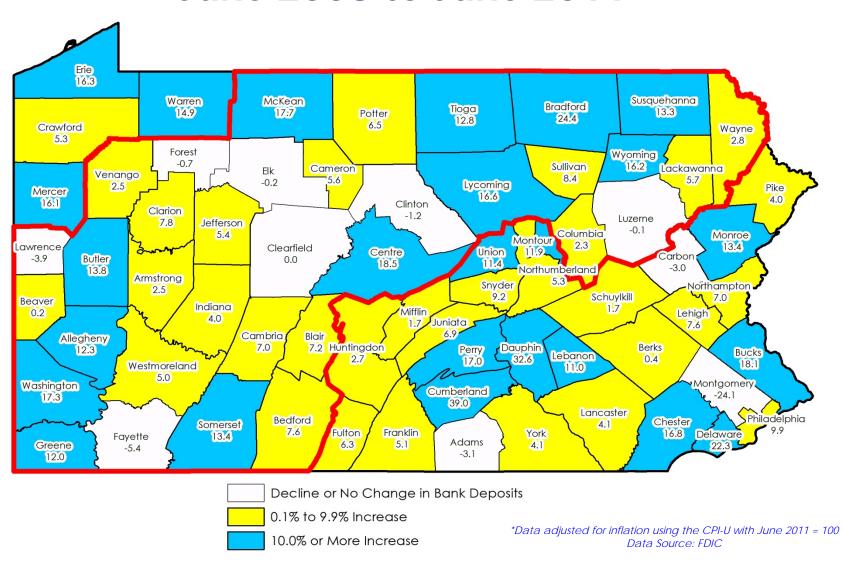
Pennsylvania's 5% capture total is \$9.67 billion

5% payout on \$9.6B of endowed funds is \$483.44M.



Data Source: Center for Rural Pennsylvania

Percent Change in Bank Deposits, June 2008 to June 2011*



Updating Transfer of Wealth

- Center is working with Appalachian Regional
 Commission, the state Department of Community and Economic Development and Community Foundations.
 - Foundation board/staff training and development
 - Making a case for foundation investment in economic development
 - Approaching these "mailbox millionaires"
- Center is also looking to update the Transfer of Wealth study.



- Issues are complex and overlapping.
- Jurisdiction varies.
- Diversity of Pennsylvania adds to challenge of finding common ground and simple solution.
- Future of drilling influenced by factors beyond Pennsylvania's control.

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