

1.17.18 Scoping Meeting for Human Health Study Critique

January 17, 2018

Raina Rippel, Director

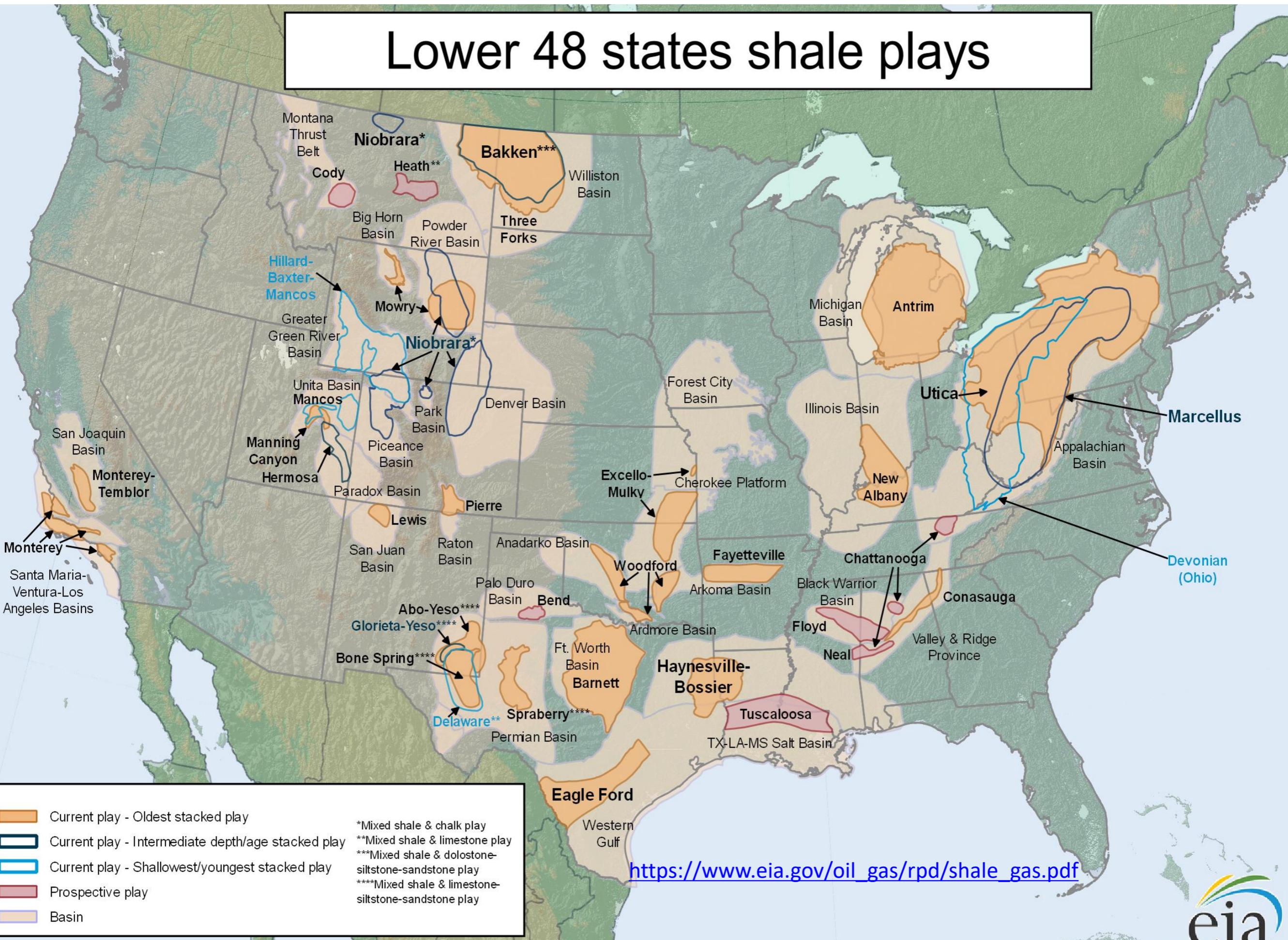
Southwest Pennsylvania Environmental Health Project (EHP) mission

Our mission is to respond to individuals' and communities' need for access to accurate, timely and trusted public health information and health services associated with natural gas extraction.

Questions

1. What information should the committee review to assess the epidemiological literature related to the onshore development of oil and natural gas from unconventional resources?
2. What criteria should the committee use to evaluate study quality?
3. What do you see as key contributions that the Committee can make to the science and the public dialogue around the development of oil and natural gas from shale and other unconventional resources?
4. Looking beyond the initial Human Health Study Critique task, what do you see as key contributions from the Committee's review of literature and research planning in Year 1 and beyond?

Lower 48 states shale plays



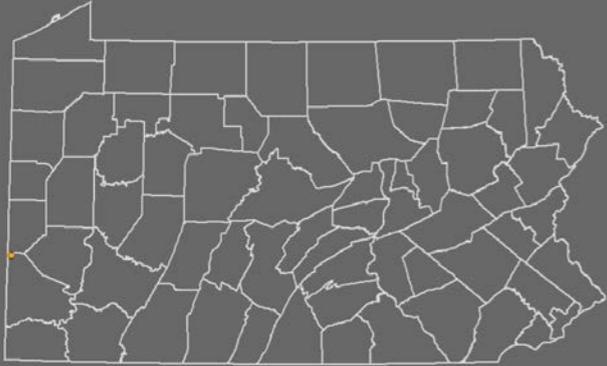
	Current play - Oldest stacked play	
	Current play - Intermediate depth/age stacked play	
	Current play - Shallowest/youngest stacked play	
	Prospective play	
	Basin	
		*Mixed shale & chalk play
		**Mixed shale & limestone play
		***Mixed shale & dolostone-siltstone-sandstone play
		****Mixed shale & limestone-siltstone-sandstone play

https://www.eia.gov/oil_gas/rpd/shale_gas.pdf

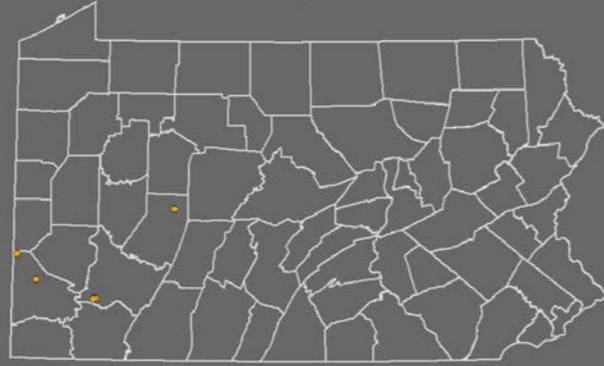


UOGD Growth in PA 2002 - 2017

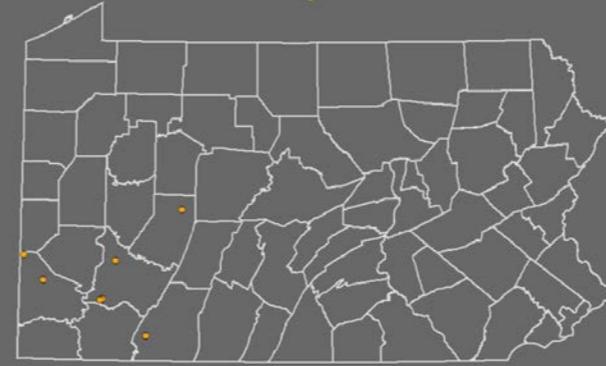
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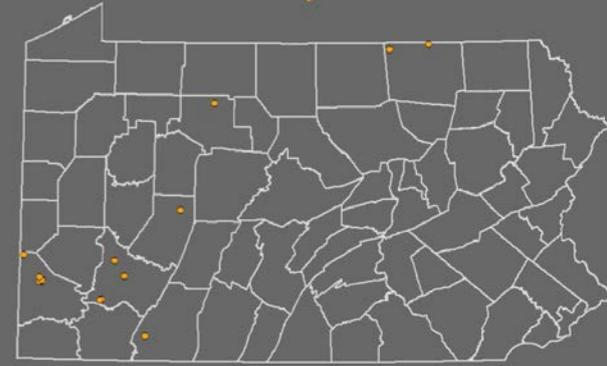
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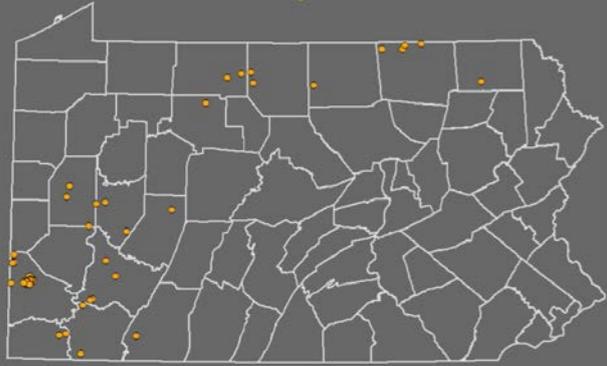
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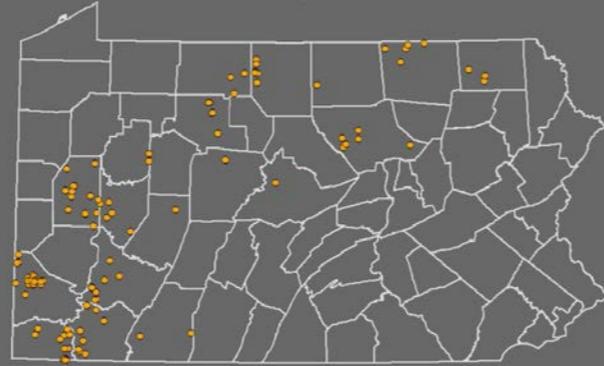
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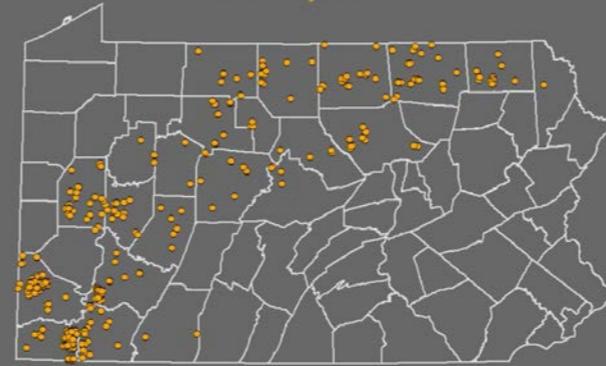
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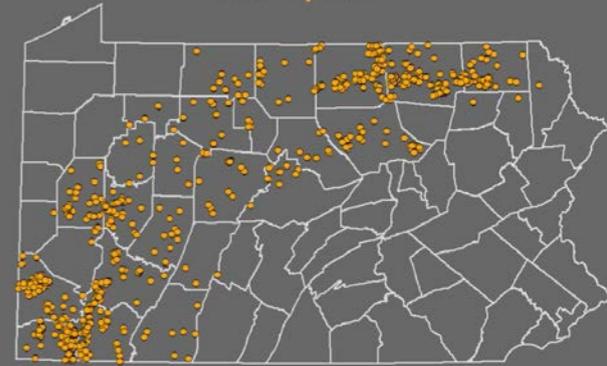
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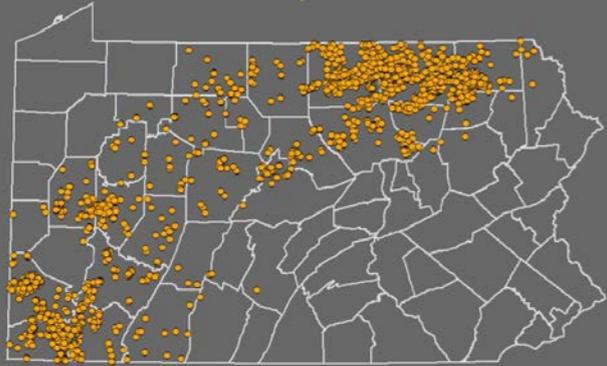
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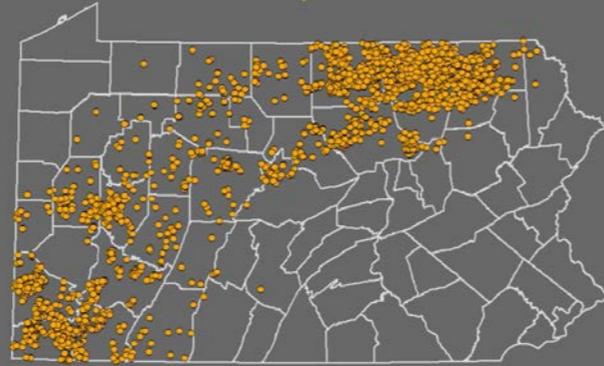
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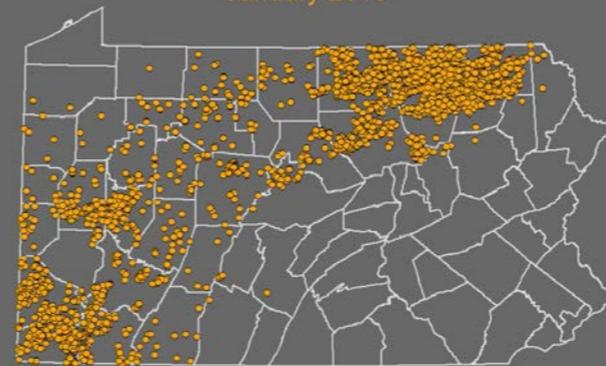
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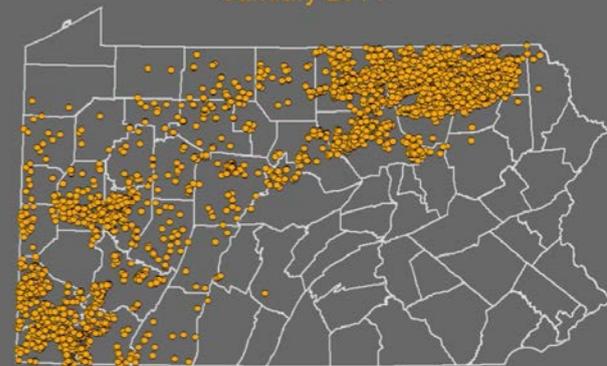
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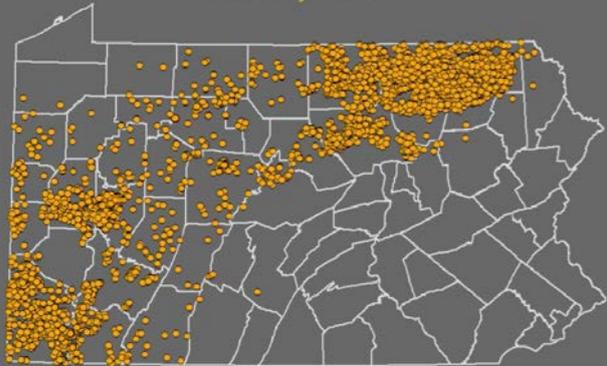
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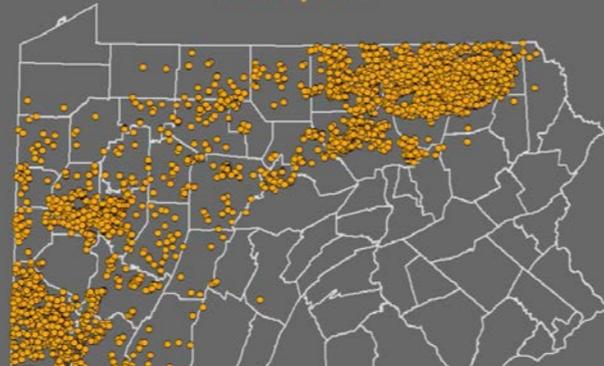
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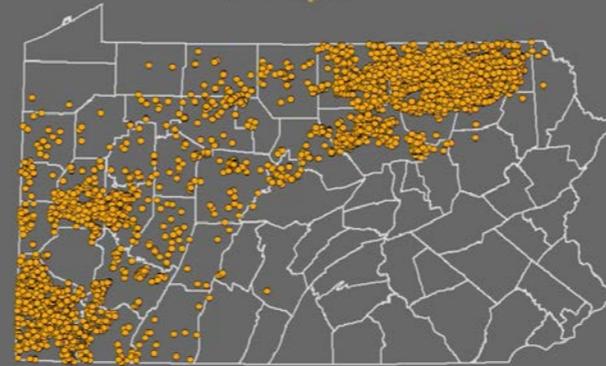
January 2015



January 2016



January 2017



An aerial photograph showing a school campus in the foreground, a large open field in the middle ground, and a forested hillside in the background. The school buildings are clustered together, with a large red-roofed building and several smaller structures. To the right of the school, there are several sports fields, including a football field and several baseball fields. A road winds through the landscape, and a large open field is visible in the middle ground. In the background, a forested hillside rises, with a small structure and a tall tower visible on the right side. The text "Chiarelli Pad" is overlaid on the left side of the image, and "Fort Cherry Jr/Sr High School" is overlaid at the bottom center. The image is credited to "Marcellus Air" in the bottom right corner.

Chiarelli Pad

Fort Cherry Jr/Sr High School

(Marcellus Air)

Summary of Recommendations

- Be aware that there is a widespread health problem (including stress, suicide, physical health, and impaired quality of life)
- Look at people, look at exposures, and look at the long-term implications of what's not known
- Localized exposures are crucial to define and prevent
- Ultimately, the court of public opinion will not accept these risks. Industry's only option is to get emissions under control.

For More Information

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