EPA ANIMAL AGRICULTURE PROGRAM ASSESSMENTS

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Region 3 Agriculture Roundtables











Pennsylvania Agriculture

34,000 farms in Chesapeake Bay watershed.

Economics:

- #1 in U.S. Mushroom Production
- # 4 in U.S. Egg Production
- #5 in U.S. Milk Production
- #13 in U.S. Pork Production
 - \$331.5 m in sales, 8000 PA jobs
- Tourism
- Clean Local Waters
 - Clean local waters
 - Safe drinking water for families and animals
 - Recreational fishing

EPA Animal Agriculture Program Assessments

- VA, PA, and NY assessments published March 2015.
- WV, MD, and DE assessments to be published in August 2015.

Link:

http://www.epa.gov/reg3wapd/tmdl/Chesape akeBay/EnsuringResults.html

Click Agriculture Tab

Acknowledgments

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David McGuigan
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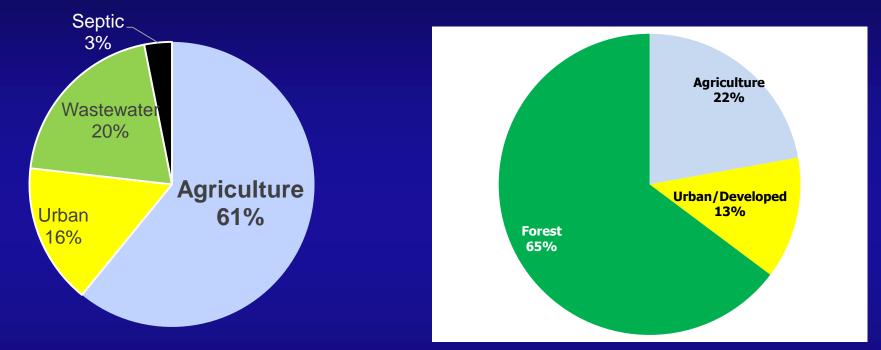
Authority

- EPA conducts periodic reviews of state programs as part of its oversight responsibilities under the Clean Water Act.
- Satisfies EPA commitment made in the "CBF Settlement Agreement"

Agriculture is a Big Part of the Bay Solution

Relative N Reductions for TMDL

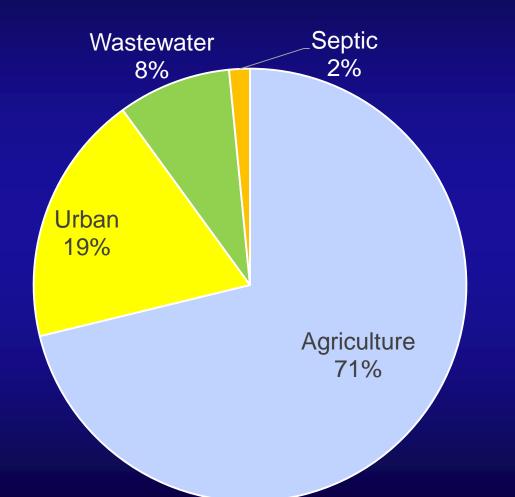
Chesapeake Watershed Land Use



For the Chesapeake Bay TMDL, states are looking to agriculture to achieve roughly 2/3 of the necessary nutrient reductions.

Why? Big land use, "cost-effective"

Relative N Reductions for TMDL Pennsylvania



Strong State Programs are Critical

What we Evaluated

- Regulatory and voluntary animal agriculture programs
- Universe of operations covered
- Staffing and funding
- Data management
- Agency communication
- On-the-ground implementation
- Alignment with TMDL WIP practices

Who we Talked To

- PADEP North and South-Central Regional Offices
- PA Department of Agriculture
- PA State Conservation Commission
- Conservation Districts in Lancaster, Lebanon, Snyder, Union counties

What Programs did We Look At?

- CAFO NPDES Program
- Nutrient Management Program CAO
- Ag Erosion & Sediment Control Program
- Manure Management Program
- Commercial Manure Hauler and Broker Certification Program

Data:

- Questionnaire and interviews
- 57 NPDES CAFO files, 86 files from Conserv. Districts

Top-Line Findings

Pennsylvania - Top Line Findings

1. CAFO & CAO Programs are robust and well-implemented.

- Cover greater universe than federal rule.
- Most operations are in 3rd permit cycle.
- Operations inspected regularly.
- Compliance issues addressed.
- Covers 10-20% of PA operations in Bay watershed.

Pennsylvania - Top Line Findings

2. Compliance challenges with state regulations covering the remaining 80-90% of operations (MMP, Ag E&S):

- Compliance with state regulations is the backbone of the Watershed Implementation Plan.
- Applies to the majority of operations, but compliance is low.
- Regional Ag WS Assessments excellent, but overall compliance inspection coverage is insufficient.
- Operations typically not inspected unless a complaint is filed or they are in one of the Regional Ag Watershed Assessment watersheds.

Successful/Promising Compliance Approaches - Bay State Examples

- Field presence through regular random inspections
- Thorough inspections
- Credible threat of enforcement for noncompliance
- Escalating enforcement response
- Annual farmer reporting
- Annual compliance reports

Pennsylvania - Top Line Findings

3. Compliance with state regulations likely won't be enough to meet PA agricultural TMDL WIP goals.

Need additional policies and programs to provide further incentive to farmers to implement priority conservation practices.

Nutrient management plans, conservation plans, animal waste storage systems, livestock exclusion.

Successful/Promising Approaches Examples from Bay States

Incentivize Voluntary Efforts

- Ag Certainty Programs
- Voluntary NMP Programs for Small Dairies

Quantify Funding Needs/Develop Source

- Ag Funding Needs Assessments
- State Ag Cost Share Programs

Target/Leverage Funding

- Target regions based on CEAP, target sectors, practices.
- RCPP target sectors, regions, practices, more TA
- Performance-Based Funding

Flexible Cost Share Programs

PA Fence 'Em Out!

Next Steps

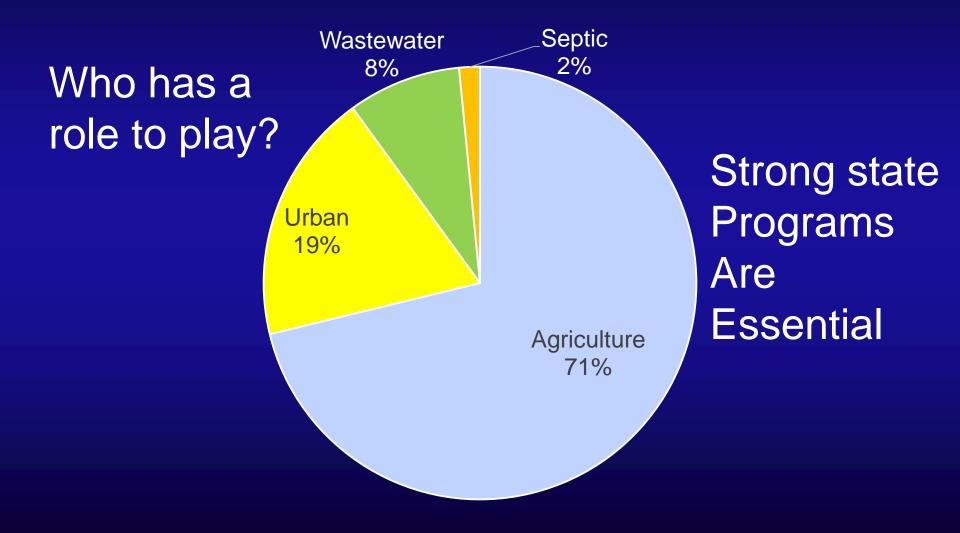
- Publish Program Assessments for WV, MD, and DE August 2015.
- AFO Sub-Watershed Assessments:
 - Conduct one a year from 2013 2016.
 - Evaluate how effective state programs are in protecting local waterways from nitrogen, phosphorus, and sediment runoff.
 - 2013: Little Antietam Creek, Maryland.
 - 2014: Cooks Creek, Virginia.
 - 2015: TBD, Pennsylvania.

Utility of Ag Assessments

- EPA will use the assessments along with its ongoing CB TMDL evaluations to ensure states have the programs, policies, and resources necessary to succeed.
 - What's working well and why?
 - What is not working well and why?
 - How can state programs be strengthened?

Strong state agricultural programs are essential for the Bay restoration. We are all in this together.

Relative N Reductions for TMDL Pennsylvania



For more information

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