Chesapeake Bay TMDL
Goals & Framework

- Executive Order 13508 (May 12, 2009) – Rigorous Accountability Measures
- Accountability/Partnership Tools
  - BayTAS (http://www.chesapeakestat.com/)
  - Chesapeake Assessment Scenario Tool (CAST)
- Federalism Balance
TMDL Progress

- EPA Actions
  - Transparent Public Reporting
  - Backstop Measures
    - Requirements & Approvals for Permits
    - Expansion of NPDES coverage
    - Revise TMDL Allocations
    - More Stringent Controls for Wastewater Treatment Plants, Large Animal Agriculture, & Municipal Stormwater Systems

Maryland Department of Environment:
http://www.mde.state.md.us/programs/Maryland/Pages/accountability_framework.aspx
### TMDL Progress

#### Oversight Status (May 2015)

<table>
<thead>
<tr>
<th></th>
<th>Agriculture:</th>
<th>Urban/Suburban:</th>
<th>Wastewater:</th>
<th>Trading/Offsets:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DE</strong></td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
<td>Enhanced Oversight</td>
<td>Ongoing Oversight</td>
</tr>
<tr>
<td><strong>DC</strong></td>
<td>Not Applicable</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
</tr>
<tr>
<td><strong>MD</strong></td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
</tr>
<tr>
<td><strong>NY</strong></td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
<td>Enhanced Oversight</td>
<td>Ongoing Oversight</td>
</tr>
<tr>
<td><strong>PA</strong></td>
<td>Backstop Actions Level</td>
<td>Backstop Actions Level</td>
<td>Ongoing Oversight</td>
<td>Enhanced Oversight</td>
</tr>
<tr>
<td><strong>VA</strong></td>
<td>Ongoing Oversight</td>
<td>Enhanced Oversight</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
</tr>
<tr>
<td><strong>WV</strong></td>
<td>Enhanced Oversight</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
<td>Ongoing Oversight</td>
</tr>
</tbody>
</table>

Green fading to yellow indicates potential downgrade at end of 2014-2015 milestone period if specific actions are not taken.

Pennsylvania Progress – Overview

- Contributes estimated 44% Nitrogen, 24% Phosphorus, & 32% Sediment levels to the Bay as of 2009.
- 75% PA’s reductions to come from Agriculture
- Challenges to Improvement
  - State Budget Impasse/Gridlock
  - Small portion of farms under federal regulation

<table>
<thead>
<tr>
<th>Ending Year</th>
<th>2009 Progress</th>
<th>2013 Progress</th>
<th>2015 Milestone</th>
<th>2017 60% Target</th>
<th>2025 TMDL</th>
<th>% Reduction (2009-2025)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen (lbs)</td>
<td>62,659,000</td>
<td>61,196,000</td>
<td>55,027,000</td>
<td>46,413,000</td>
<td>35,582,000</td>
<td>43%</td>
</tr>
<tr>
<td>Phosphorus (lbs)</td>
<td>2,716,000</td>
<td>2,663,000</td>
<td>2,535,000</td>
<td>2,176,000</td>
<td>1,816,000</td>
<td>33%</td>
</tr>
<tr>
<td>Sediment (lbs)</td>
<td>1,676,644,000</td>
<td>1,636,375,000</td>
<td>1,398,011,000</td>
<td>1,325,884,000</td>
<td>1,092,044,000</td>
<td>35%</td>
</tr>
</tbody>
</table>

• Pennsylvania Animal Agriculture Program Assessment
  • Poor or nonexistent data tracking
  • Lack of resources
  • BMPs not always compatible with farming practices
  • Lack of oversight and enforcement
  • Lack of cohesion, silo effect

• Farming Culture (40,000 farms in watershed)
  • Cost burden
  • Relationships – conflict of interest

• Menonite/Amish Farming Challenges

• Limited Stories of Success at *Local Level*