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**CHESAPEAKE BAY POLICY 2012 –**  
THE TMDL AND THE STATE RESPONSES



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**Penn State Extension**

**Overview**

- The Bay
- The Imbalance
- The TMDL
- 2012 Update



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**Penn State Extension** The Bay

Major River Basins of the Chesapeake Bay Basin



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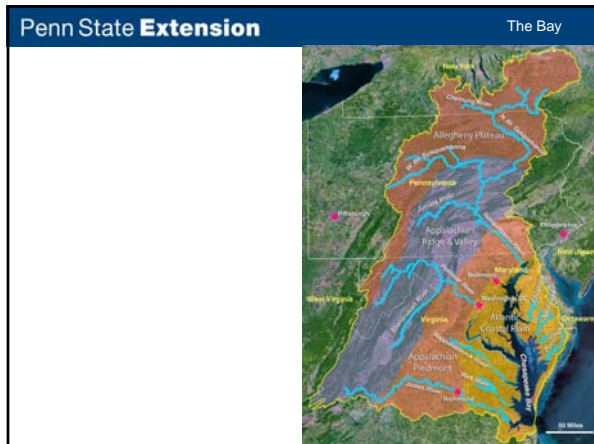
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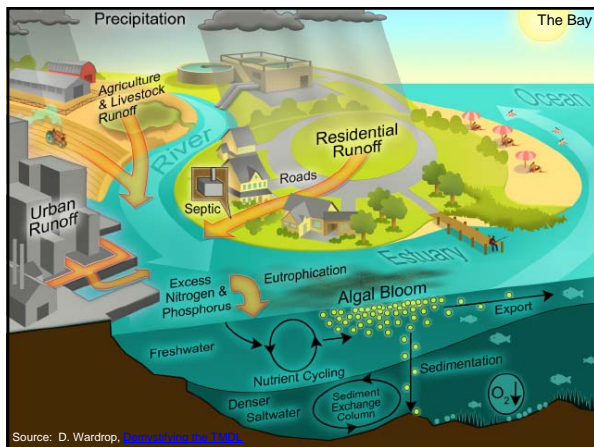
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**Penn State Extension** The Bay

### Important Premises

- The Bay system is a complicated one that responds to many forces, only some of which watershed managers can influence
- It has taken more than a half a century to get the Bay into the degraded state that it is in today
- It will not be restored in a few years

Source: D. Wardrop, [Demystifying the TMDL](#)

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**Penn State Extension** The Imbalance

## ChesapeakeSTAT data on tracking and accounting

- Overview of sources  
[http://stat.chesapeakebay.net/?q=node/130&quicktabs\\_10=3](http://stat.chesapeakebay.net/?q=node/130&quicktabs_10=3)

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**Penn State Extension** The Imbalance

## Structure of Ag and the Nutrient Cycle

**Figure 1.** Nutrients that are contained in grain grown in other geographic regions are imported into Pennsylvania and fed to livestock. Some of the nutrients are then excreted from the animal and land applied for crop utilization. The result is an overall importation of nutrients to croplands. Source: Doug Beagle.

To hear more on this topic: <http://extension.psu.edu/aec/conservation-training/ag-101/ag-101-special-topics>

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**Penn State Extension** The TMDL

- Why a Chesapeake Bay TMDL now?
  - 1999 Consent Decree order
  - Water quality goals est. in Chesapeake 2000 Agreement not met by 2010
  - Executive Order 13508
- How is Bay TMDL different?
  - Scale/complexity/pollutants
  - Implementation
  - Consequences

**Bay Timeline**

1972	The Chesapeake Bay is designated as a special area for protection, including the Chesapeake Bay, with the goal of restoring the Bay to its former health.
1973	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.
1983	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.
1987	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.
1999	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.
2000	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.
2007	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.
2010	The Bay is designated as a special area for protection, with the goal of restoring the Bay to its former health.

From M. Ehrhart, CBE LPELC presentation 2/11

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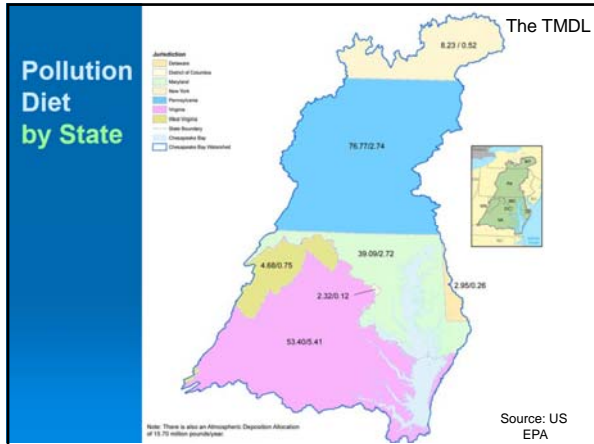
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**Penn State Extension** The TMDL

### Watershed Implementation Plans

- WIPs required to:
  - Detail actions or strategies to achieve load reductions to ensure that water quality standards are met
- Bay Jurisdictions submitted Phase I WIPs – 2010 with 2011 updates providing overarching strategies/actions

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**Penn State Extension** 2012 Update

### Where we are today - WIP Process

- 2011\_November 1
  - Submit Draft 2012-2013 milestone commitments to EPA.
- 2011\_December 15
  - Submit Draft Phase 2 WIP to EPA.
- 2012\_January 7
  - Submit Final 2012-2013 milestone commitments to EPA.
- 2012\_February 15
  - Formal EPA comments on Draft Phase 2 WIPs due.
- 2012\_February 15 – March 29
  - Revise Phase 2 WIP to address public and EPA comments.
- 2012\_March 30
  - Submit Final Phase 2 WIP to EPA.

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**Penn State Extension** 2012 Update

**Guidance to States from EPA RE: Phase II WIPs**

- Most important part - narrative
- “Jurisdictions are expected to demonstrate in their WIP narratives that local partners:
  1. Are aware of the WIP strategies
  2. Understand their contribution to meeting the TMDL allocations, and
  3. Have been provided with the opportunity to suggest any refinements to the WIP strategies.”

<http://www.epa.gov/reg3wapd/tmdl/ChesapeakeBay/EnsuringResults.html>

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**Penn State Extension** 2012 Update

**Milestones**

- Key “Check-In” points towards meeting the pollution diet – for 2017 halfway mark (60%) and 2025 (100%)
- Summer 2011 - [http://archive.chesapeakebay.net/pressrelease/EC\\_2009\\_allmilestones.pdf](http://archive.chesapeakebay.net/pressrelease/EC_2009_allmilestones.pdf)
- January 2012 – EPA received the FIRST set of 2-year milestones <http://www.epa.gov/reg3wapd/tmdl/ChesapeakeBay/EnsuringResults.html>

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**Penn State Extension** 2012 Update

**PA Ag Milestones for 2012/2013**

Target Date	Milestone	Deliverable	Lead Agency
10/13	CAFO program review for consistency with EPA requirements	Ongoing	DEP
7/12	Model “AG Compliance Policy” for conservation districts	Written document	DEP
7/12	Farm visits by districts to conduct outreach of PA requirements for E&S and Manure Management	4000 on-farm visits	DEP and conservation districts
12/13	Manure Management Manual Outreach and Training	20 trainings of staff and regulated community	State Conservation Commission
12/13	DEP Chesapeake Bay Field Reps perform 600 compliance inspections	100 inspections/staff position/Y	DEP

NOTE: Partial listing as example. Only select AG milestones shown.

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For more information about Penn State Extension activities related to agriculture, environment, pollution prevention, and the Chesapeake Bay, please visit:

- <http://extension.psu.edu/AEC>
- Or subscribe to the
  - Penn State AG & ENV listserv - [MAILTO:L-AGENVIRONMENT-SUBSCRIBE-REQUEST@LISTS.PSU.EDU](mailto:L-AGENVIRONMENT-SUBSCRIBE-REQUEST@LISTS.PSU.EDU)
- Contact:
  - Kristen Saacke Blunk, Director, Penn State Agriculture & Environment Center, [ksaackeb@psu.edu](mailto:ksaackeb@psu.edu), 814-863-8756



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