

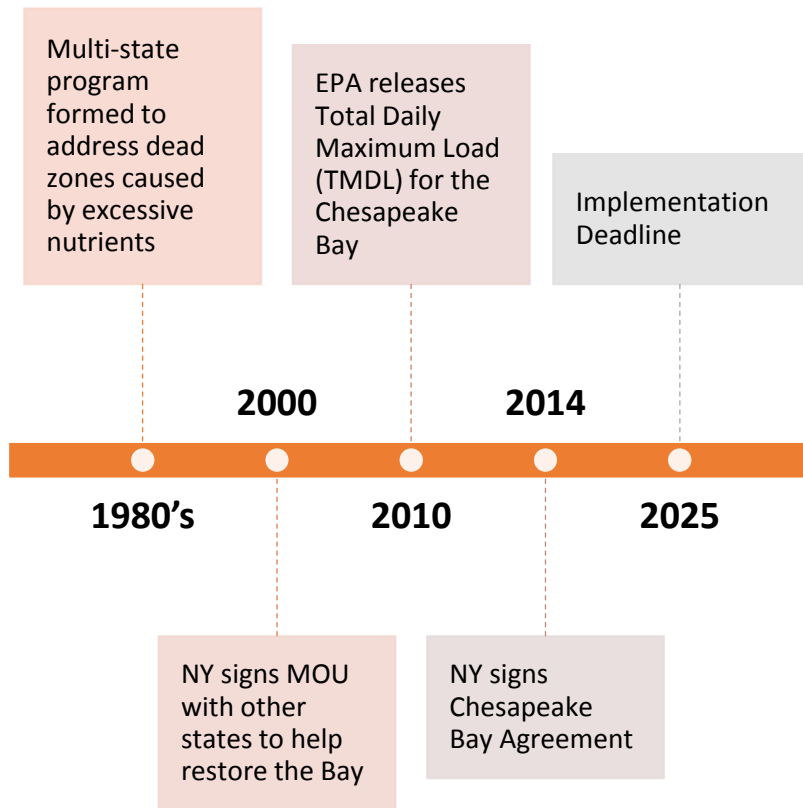


Department of
Environmental
Conservation

Phase III Watershed Implementation Plan: Raising awareness of Chesapeake Bay Water Quality Issues

Upper Susquehanna Watershed Forum
October 1, 2019

History of Water Quality Issues



Total Daily Maximum Load (TMDL)

- EPA assigned target loads for TN and TP at the basin scale (Susquehanna + Chemung = one basin)
- Jurisdictions responsible for developing their own watershed implementation plans (WIP)
 - Phase I WIP: 2010-2013
 - Phase II WIP: 2014-2017
 - **Phase III WIP: 2018-2025**



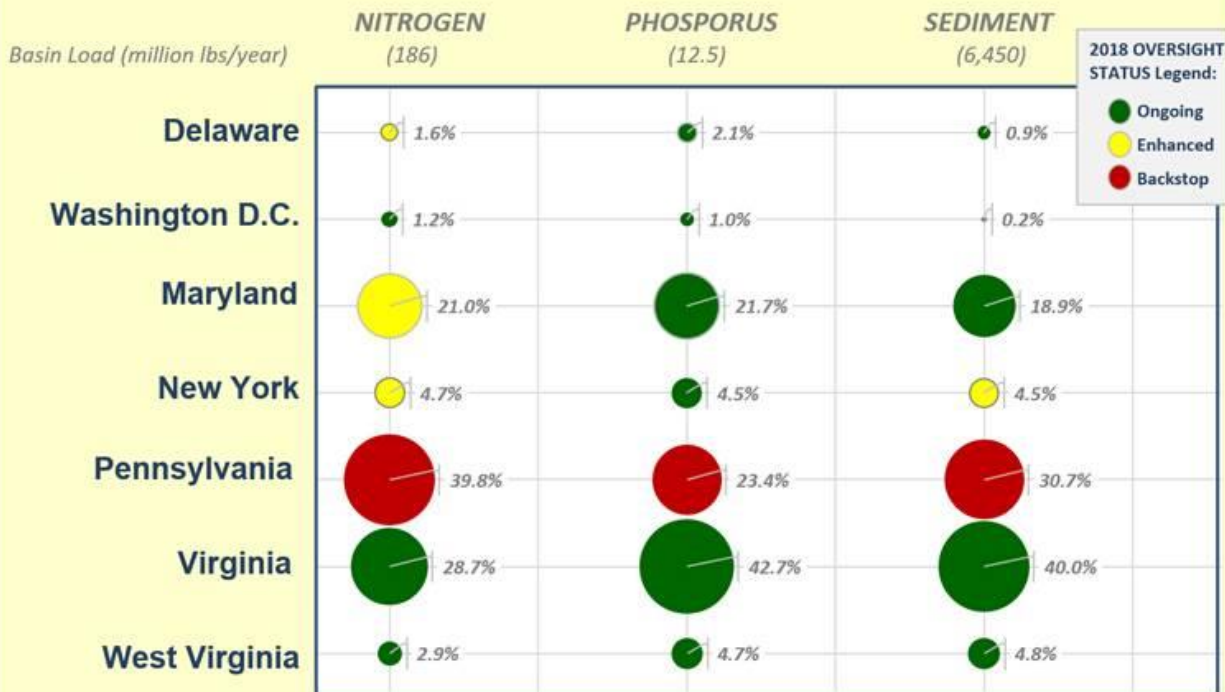
Where is the load coming from?

| | Nitrogen | Phosphorus | Sediment |
|------------------------------|--------------|--------------|---------------|
| Agriculture | 6.60 (46%) | 0.17 (27%) | 141.572 (21%) |
| Urban Runoff | 2.00 (14%) | 0.07 (12%) | 110.465 (17%) |
| Point Source (wastewater) | 2.44 (17%) | 0.14 (22%) | 2.788 (0%) |
| Septic | 0.18 (1%) | 0 (0%) | 0 (0%) |
| Forest | 3.10 (22%) | 0.25 (39%) | 411.421 (62%) |
| New York Totals | 14.32 | 0.632 | 666.23 |

Values are in million pounds per year. In parentheses is the percent of the total. Because both are largely uncontrollable load, the Forest category includes 282,985 pounds per year of nitrogen and 23,185 pounds per year of phosphorus attributed to Non-tidal Water Deposition. All 2017 values are delivered load outputs of the EPA Chesapeake Bay Watershed Model Version CAST-2017d and units are pounds per year.

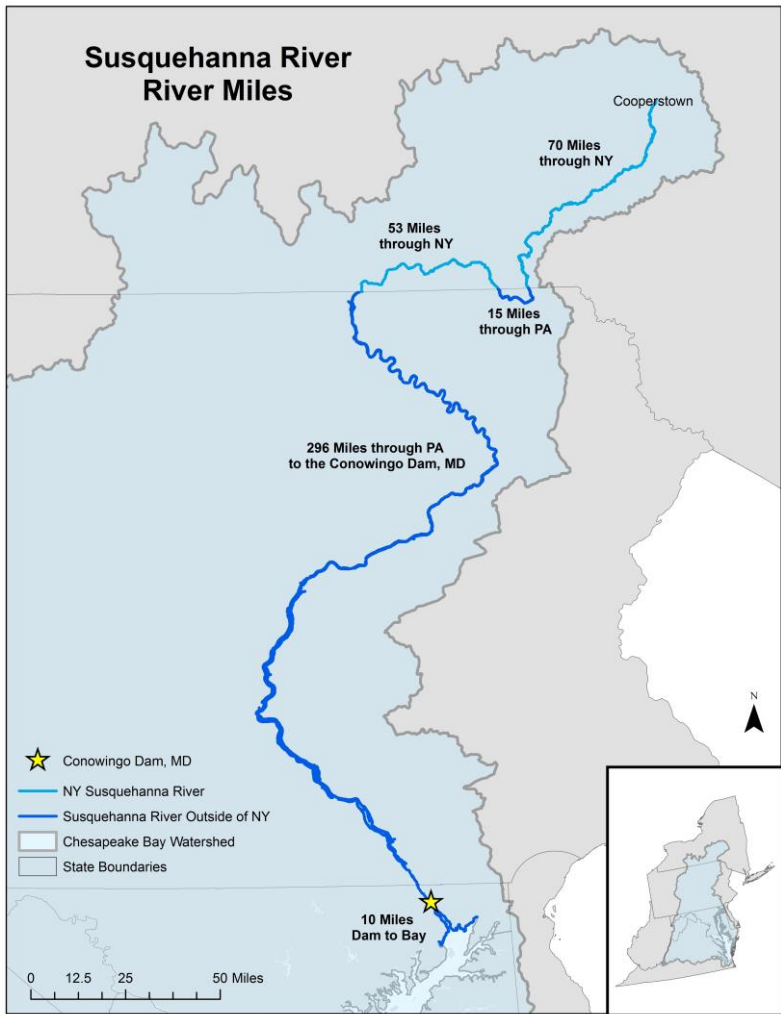


Chesapeake Bay: TMDL Relative Allocation (%) & 2018 Oversight Status

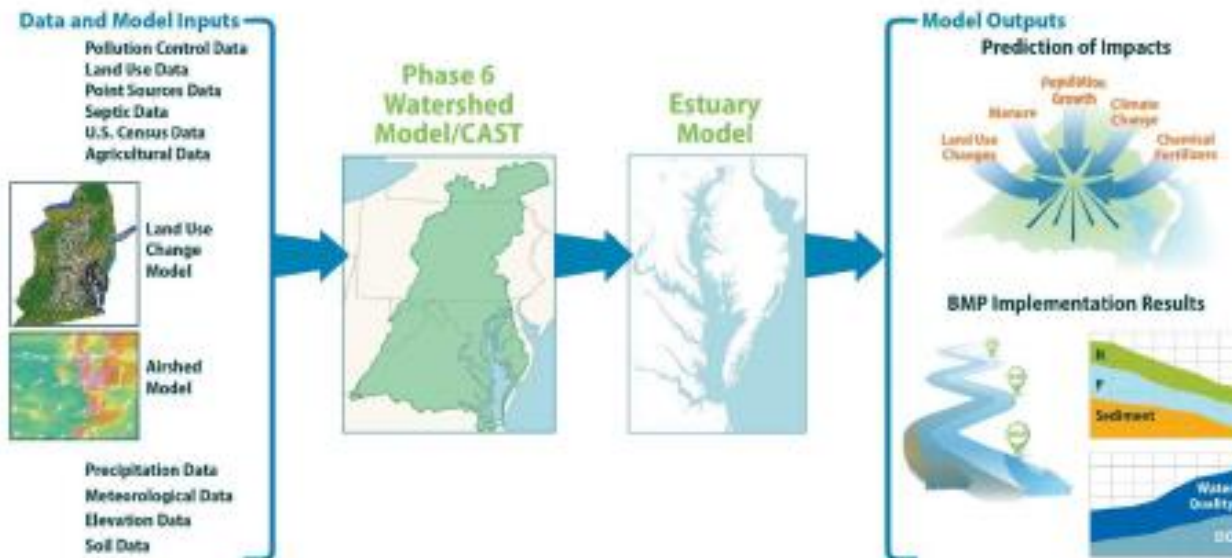


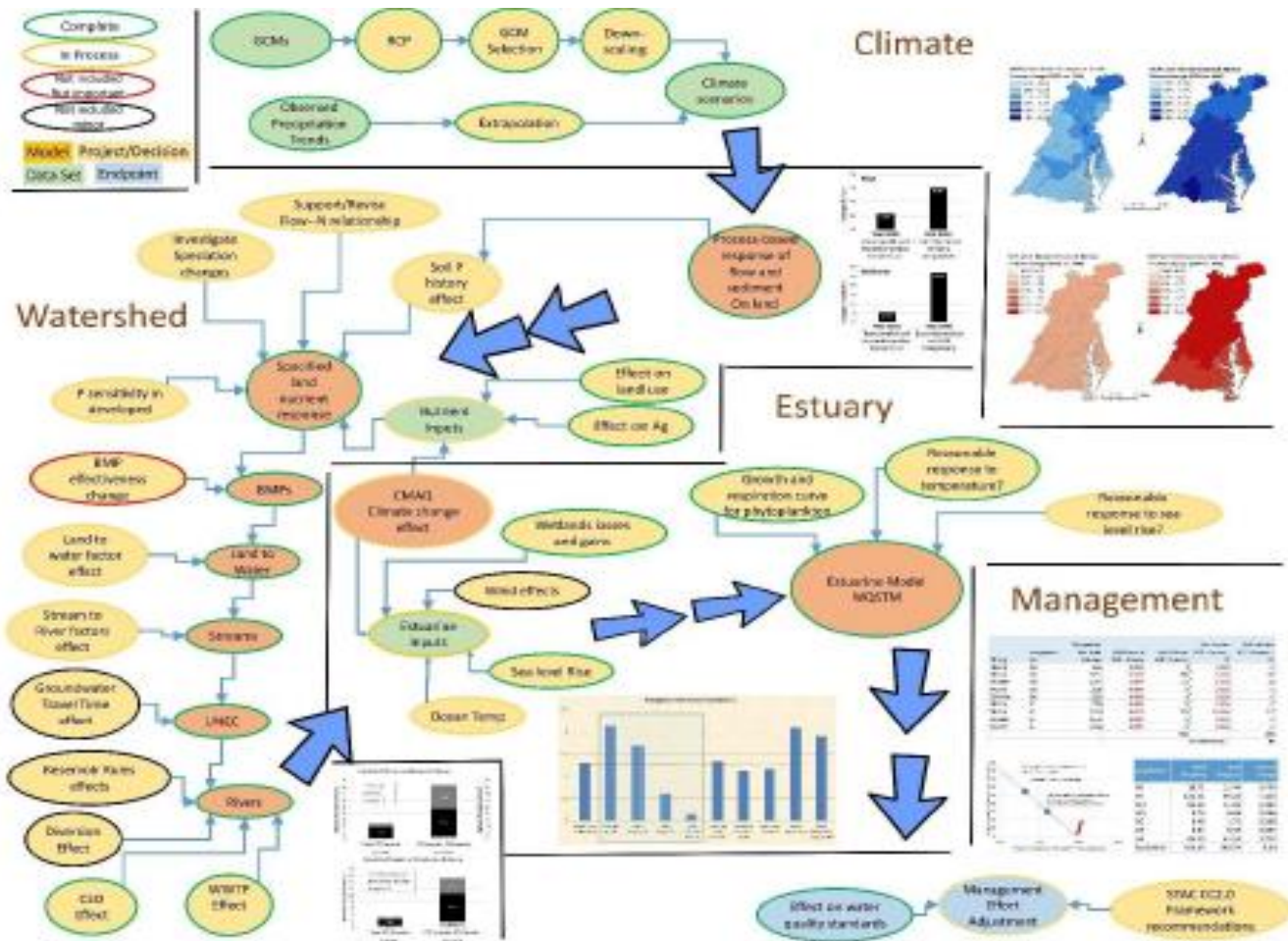
Ambient Water Quality Monitoring





Models vs. Real World





Benefits of Protecting the Chesapeake Bay

- Focus on co-benefits
- Take advantage of funding resources targeted to the watershed
- Avoid regulations that may be imposed by EPA
- Local implementation will protect and/or improve local water quality, increase resiliency, restore habitats



Strategies to Increase Engagement

- Increase support for technical assistance
- Increase availability of grant funding
- Increase reporting of BMPs
- Improve communication among local stakeholders
- Create new targeted programs
- Utilize existing tools developed by other states



Thank You

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DEC Chesapeake Bay Webpage:

<http://www.dec.ny.gov/lands/33279.html>



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