

Maryland Phase III Chesapeake Bay Watershed Implementation Plan

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Agricultural Leadership Round Table July 25, 2018



Outline

- 1. How is the Bay Responding to our efforts?
- 2. What programs have brought us this far?
- 3. What are the remaining reductions needed and what is the gap?
- 4. How will Maryland develop the Phase III WIP and close any remaining pollution reduction gaps?



How is the Bay Responding to our efforts?



Living Resources are Recovering

Indicators for a healthy Bay and to important to Maryland's economy

Bay Grasses



Submerged aquatic vegetation recovery is linked to nutrient reductions.

Blue Crabs



Blue crab populations respond to fisheries management, habitat restoration, and SAV recovery.

Oysters

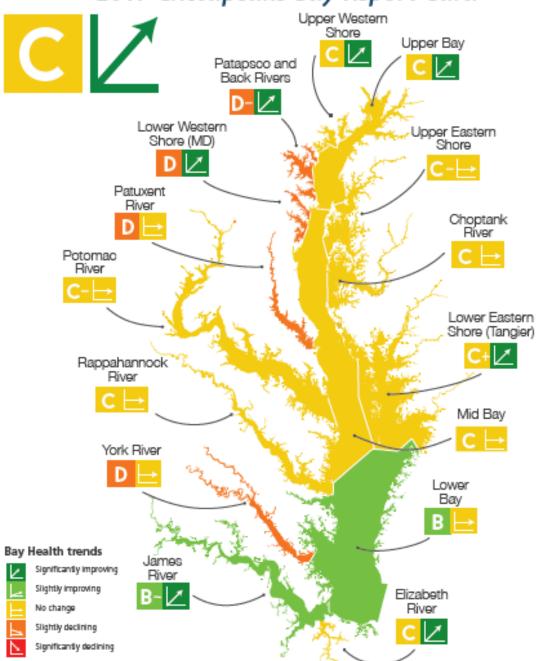


Harris Creek, MD is the first fully restored oyster reef in Chesapeake Bay.



- Measured signs of improvement
- Cleaner water =
 Healthy Bay =
 Healthier Economy
- More to do!

2017 Chesapeake Bay Report Card





What programs have brought us this far?







Wastewater

- Dedicated Fund
- 67 Majors to ENR
- Economies of Scale
- Incentives
- Minors
- Septic Upgrades & Connections

Agriculture

- Cost Share
- Nutrient Management
- PMT
- Cover Crops
- CREP
- New technologies
- Locally Developed SCD Plans

Urban Stormwater

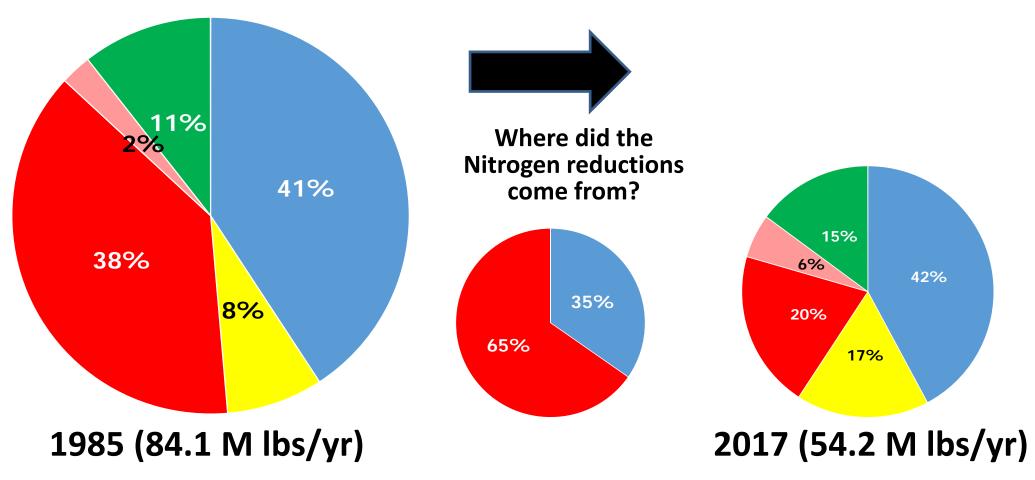
- New development stormwater standards
- MS4 Phase I
 - Local Restoration
 - Financial Assurance
 - P3
 - Compliance
 - Funding





Maryland Nitrogen Loads (1985 – 2017)

Maryland has made the most progress in reducing nitrogen since 1985 compared to the other 6 Bay jurisdictions



■ Agriculture ■ Developed ■ Wastewater ■ Septic ■ Natural

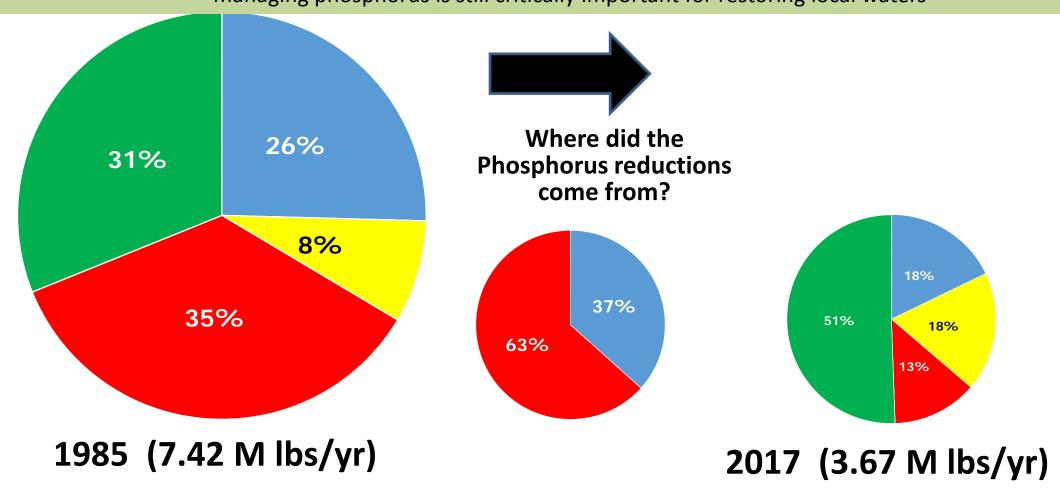
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Maryland Phosphorus Loads (1985 – 2017)

While Maryland has almost met its 2025 phosphorus reduction goals, managing phosphorus is still critically important for restoring local waters



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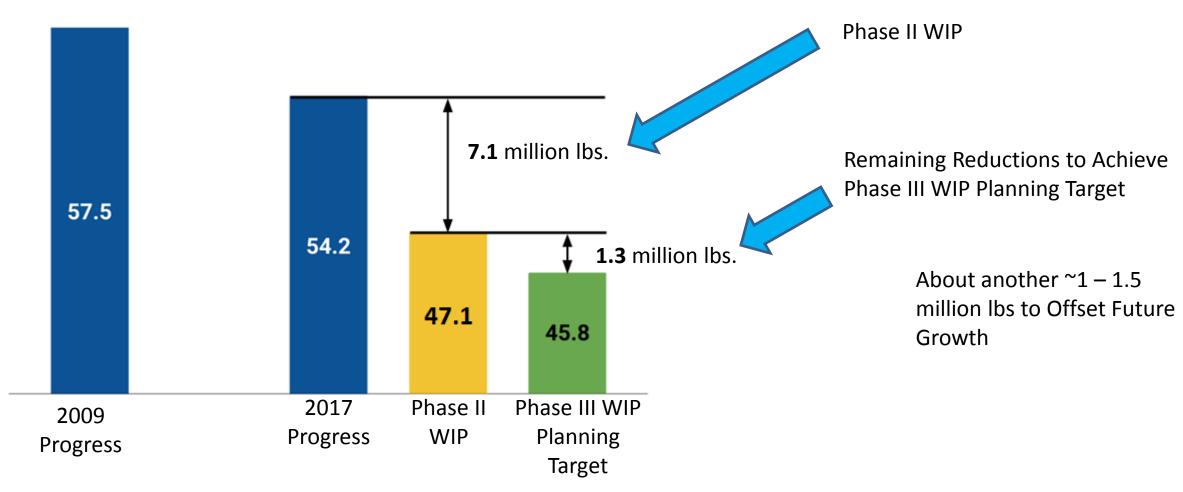


What are the remaining reductions needed and what is the gap?





Where the Phase II WIP Level of Effort will Get Them in Terms of Nitrogen Load Reductions



Source: USEPA Chesapeake bay Program



How will Maryland develop the Phase III WIP and close any remaining pollution reduction gaps?

Wastewater

WWTPs

- Majors
- Minors
- Water reuse

Septic systems

- Upgrades
- Connections
- Stewardship

Urban Stormwater

Phase I MS4

Phase II MS4

Non-MS4

Agriculture

Revisit Current Plan

New Tools

Clean Water Commerce

Pay for performance

Nutrient Trading

Targeting

Future Conditions

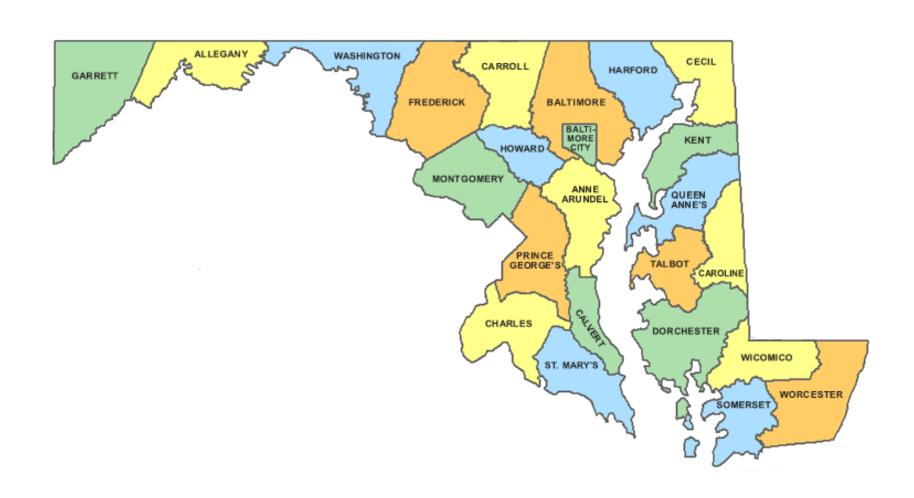
Climate Resiliency and Adaptation

Aligning for Growth

Crediting Conservation



Local Goals, Local Input & Local Benefits





Phase III WIP Timeline

✓ Dec 2017: States receives <u>Draft</u> Phase III Planning Targets

✓ June 20, 2018 EPA releases Phase III WIP Expectations

✓ July 19, 2018: States receives Final Phase III Planning Targets

□July 2018: Begin local engagement using Final planning targets

☐ August : State establishes Sector Working Targets

□Aug. – Dec. 2018: WIP Development

□ November 2018: Regional meetings

☐ February 2019: Gov Bay Cabinet receives Draft Phase III WIP

□April 12, 2019: Draft Phase III WIPs released for public review

□June 7, 2019: End of public review period

☐ August 9, 2019: Final Phase III WIPs