



Maryland
Department of
the Environment

Phase III WIP Update

July 23, 2017

Maryland Water Quality Trading Advisory Committee Meeting
MDE Headquarters, Baltimore, Maryland

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Recent actions

- June regional meetings
- July 9 – Principals' Staff Committee
 - Revised Phase III WIP schedule
 - EPA Phase III WIP Expectations Document
 - Approval of Phase III WIP planning targets



June Regional Meeting Recap

- Survey results
 - Expert infrastructure
 - Technical and funding assistance
 - Examples of success stories
 - Cross-sector connections
 - Partnerships
 - Public-private, stormwater-agriculture, etc.
 - Local expectations and goals
 - Accounting for growth
 - BMP maintenance and verification
 - Septic Stewardship Plans
- Technical webinar requests
 - Stormwater
 - Funding
 - Local expectations and goals



EPA Revised Phase III WIP Schedule

- July 9, 2018: States receive III Planning Targets
- 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



EPA Phase III WIP Expectations

- Programmatic and numeric commitments for meeting the Phase III WIP Planning Targets
 - Identify legislative, regulatory, funding, financing, cost-share, incentive, voluntary, actions needed to be taken
- Local planning goals below the state-major basin scale
- Engagement with local, regional and federal partners



EPA Expectations: Engagement

- Identify:
 - specific target audiences for local, regional, and federal engagement
 - areas where local, regional, and federal engagement is most needed to accelerate WIP implementation
 - funding and technical support needed for local partners
- Describe roles partners will play in implementing commitments
- Examples of successful working relationships that local, regional and federal partners can adopt to support WIP implementation



EPA Expectations: Accounting for Growth

- Describe
 - Approach for addressing any increases in nutrient and sediment loads as a result of growth
 - Programs and regulations to maintain existing high quality beneficial land covers
- The Chesapeake Bay Program will run the jurisdictions' respective Phase III WIP input decks on these 2025 forecasted conditions



EPA Expectations: Conowingo Dam & Climate Change

- Conowingo Dam
 - Develop a separate and collaborative Conowingo WIP

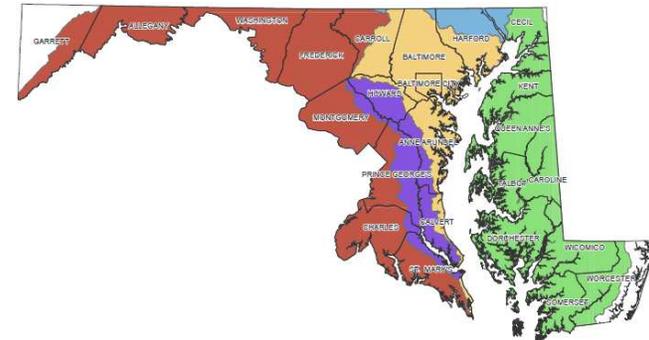
- Climate Change
 1. Incorporate Climate Change in the Phase III WIPs
 - Narrative strategy to address climate change
 - Commit to adopting climate change targets by 2021
 2. Understand the Science
 - Understand the science and impacts of climate change, and any research gaps and needs.
 - Develop estimate of pollutant load changes due to 2025 climate change conditions.
 - Develop better understanding of BMP responses
 3. Incorporate into Two-Year Milestones
 - Jurisdictions to account for additional pollutant loads due to 2025 climate change conditions
 - CBP partnership to determine how climate change will impact BMPs and address these vulnerabilities



Planning Targets

- Phase III WIP planning targets approved July 9, 2018

Watershed Target	M lbs/yr	
	TN	TP
Maryland	45.8	3.68
MD Eastern Shore	15.2	1.29
MD Patuxent	3.2	0.30
MD Potomac	15.3	1.09
MD Susquehanna	1.2	0.05
MD Western Shore	10.9	0.95

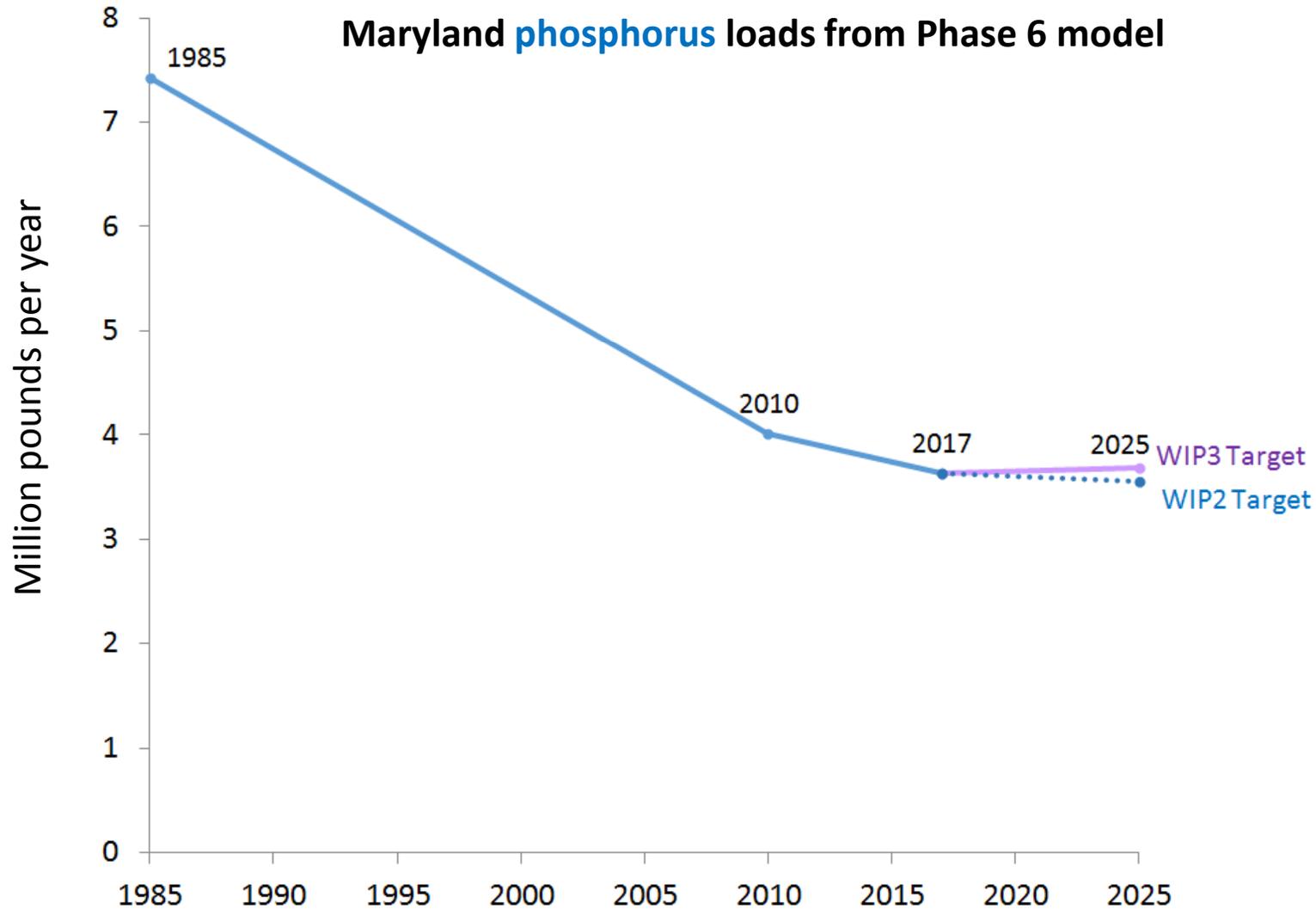


Major Basin

- Eastern Shore of Chesapeake Bay
- Patuxent River Basin
- Potomac River Basin
- Susquehanna River Basin
- Western Shore of Chesapeake Bay

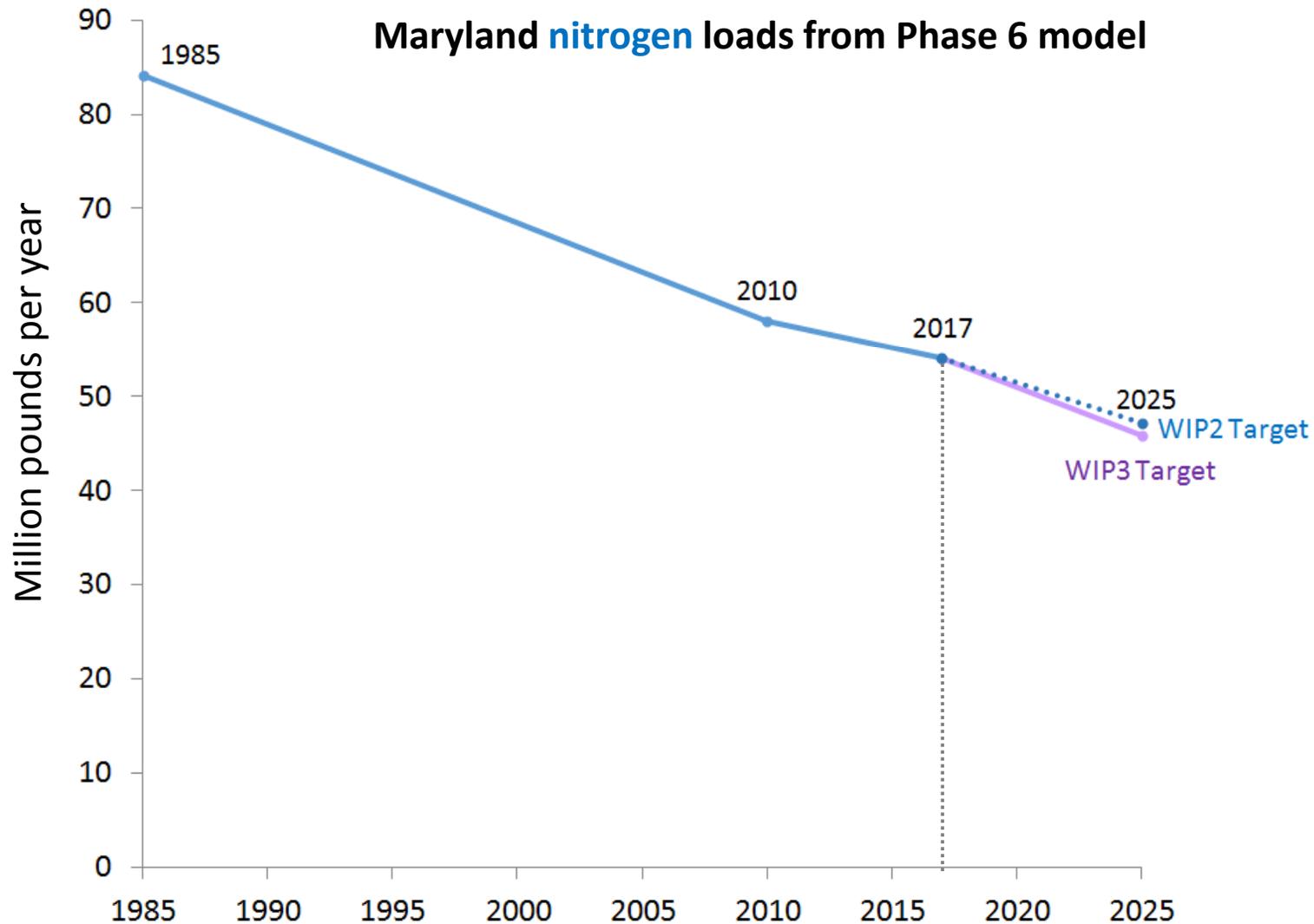


Long-term phosphorus trends



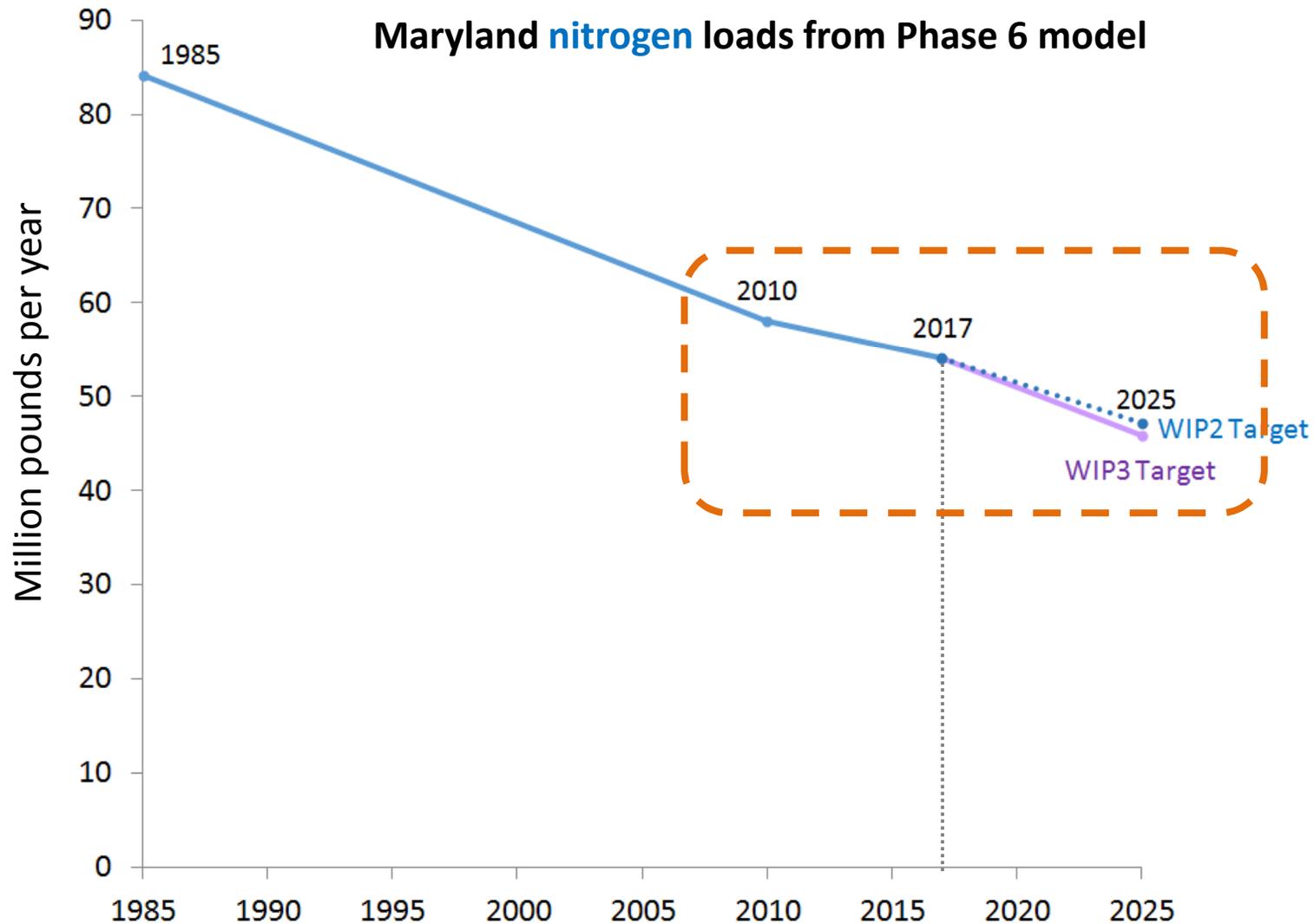


Long-term nitrogen trends



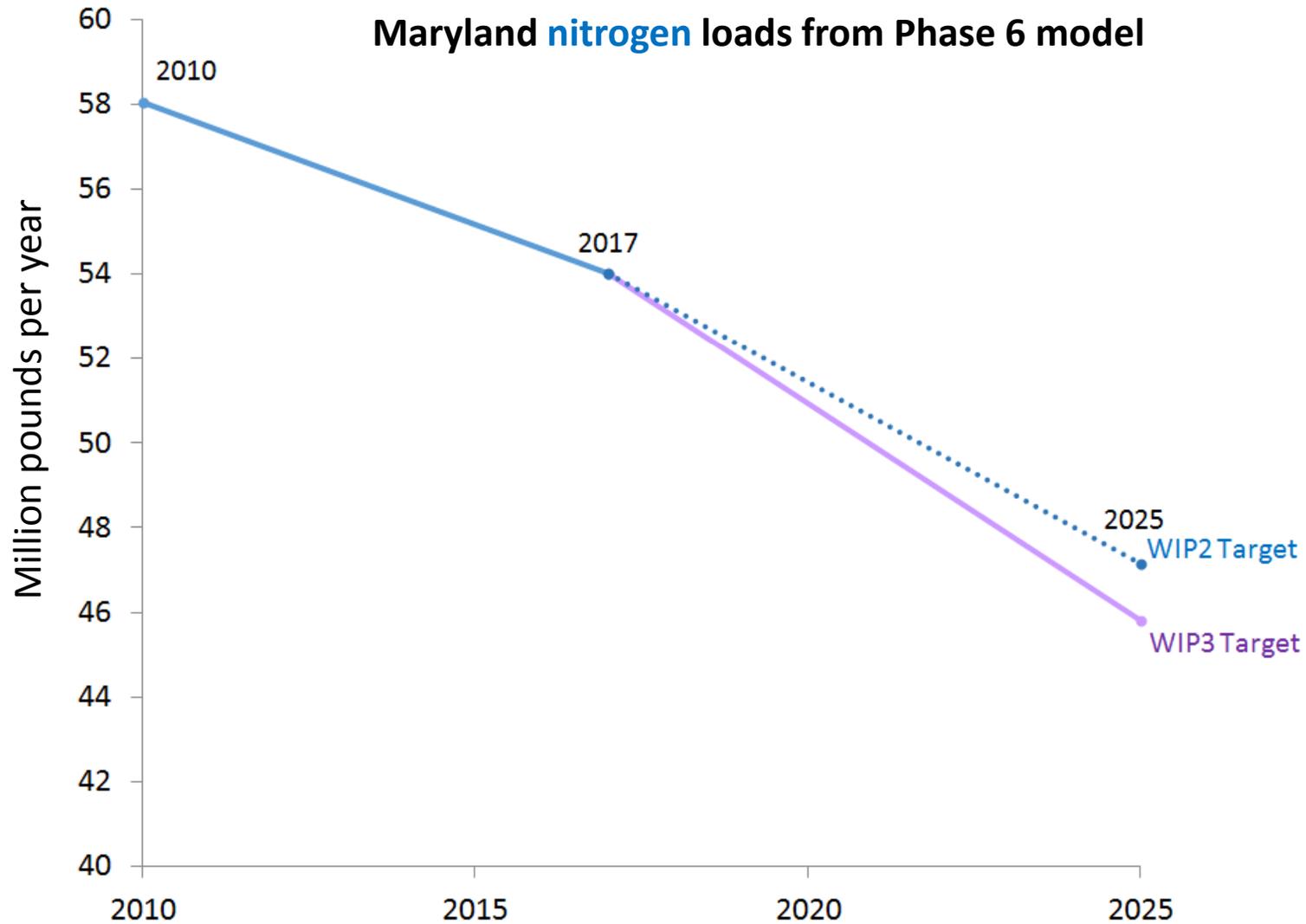


Long-term nitrogen trends



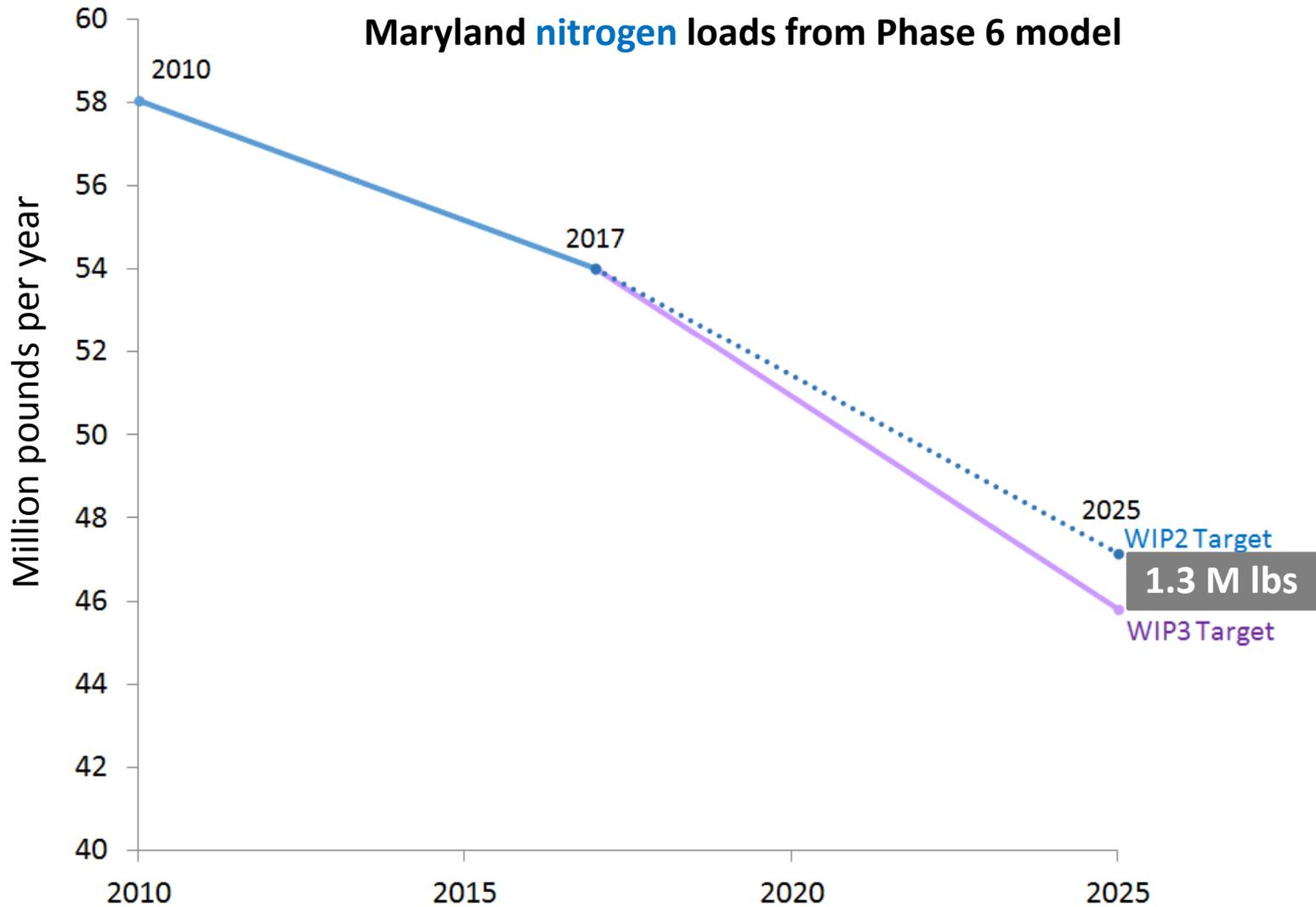


Recent Nitrogen Trends





Recent Nitrogen Trends





Additional nitrogen reductions

- Work with federal, state and local partners
 - Local WIP Inventories
- Develop potential strategies for additional reductions
- Compare cost and feasibility of achieving reductions by 2025
- Recognize importance of adaptive management
- We need to reach our targets by 2025
 - We need to maintain targets beyond 2025
- Verification
 - Can't lose credit for work we've already done



Local WIP Inventories

- Starting July 2018
- Inventory of:
 - Pollution reduction practices completed
 - Planned pollution reduction practices
- Inventory questionnaire
 - Questions for local practitioners
 - Understand local priorities
 - Climate resiliency
 - Flooding
 - Other water quality concerns
 - Funding
- Outcomes:
 - Develop countywide strategies and goals
 - Determine if state policies are aligned with local priorities



Engagement

- June 2018: regional meetings
- August 2018: Summer technical webinars
- Summer/Fall 2018: Meetings with local practitioners
- November 2018: Fall regional meetings
- Other meetings
 - 2018 MaCo Summer Conference (August 15-18)
 - Chesapeake Bay Program Partnership
 - Federal Facilities workgroup
 - Water Quality Goal Implementation Team
 - WQTAC updates
 - Other opportunities, as available
- April – June 2019: Public comment period for Phase III WIP



Phase III WIP Schedule

- July 9, 2018: States receive III Planning Targets
- July/August 2018: Begin meeting with counties for local WIP inventories
- July/August 2018: Soil Conservation District Meetings
- September – December 2018: Develop WIP Report
- November/December 2018:
 - Regional meetings
 - Finalize Local WIP Inventories
 - Develop approaches for aligning state strategies
- April 12, 2019: Draft Phase III WIPs released for public review
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Key WIP ideas

- Foster effective partnerships
- Build in an adaptive management approach
 - Revisit our strategies
- Plan for 2025 and beyond
- Look for multiple benefits
- Maintenance and verification