



Chesapeake Bay Policy in Virginia - TMDL, Milestones and the Watershed Agreement

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Citizens Advisory Committee
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Chesapeake Bay TMDL Planning Framework

- ✓ 2010 - Chesapeake Bay TMDL and Phase I WIP
- ✓ 2012 - Phase II WIP
- ✓ 2012-2013 Milestones
- ◎ 2014-2015 Milestones
 - 2016-2017 Milestones
 - 2017 Mid-point Assessment (60% of reductions)
 - 2018 Phase III WIP
 - 2018-2019 Milestones
 - 2020-2021 Milestones
 - 2022-2023 Milestones
 - 2024-2025 Milestones
 - 2025 Full Implementation Target

Watershed Implementation Plan (WIP)

Phase I WIP: Highlights

- Proposed a broad expansion of the existing nutrient credit exchange
- Ongoing implementation of Watershed General Permit
- Plan for the James River for additional study of the current chlorophyll standard and special schedule for James River facilities in Appendix X of the TMDL
- Widespread implementation of resource management plans and BMPs on agricultural land
- Improvements to stormwater regulations and permitting
- Improved accounting of voluntary practices

Watershed Implementation Plan (WIP)

Phase II WIP: Highlights

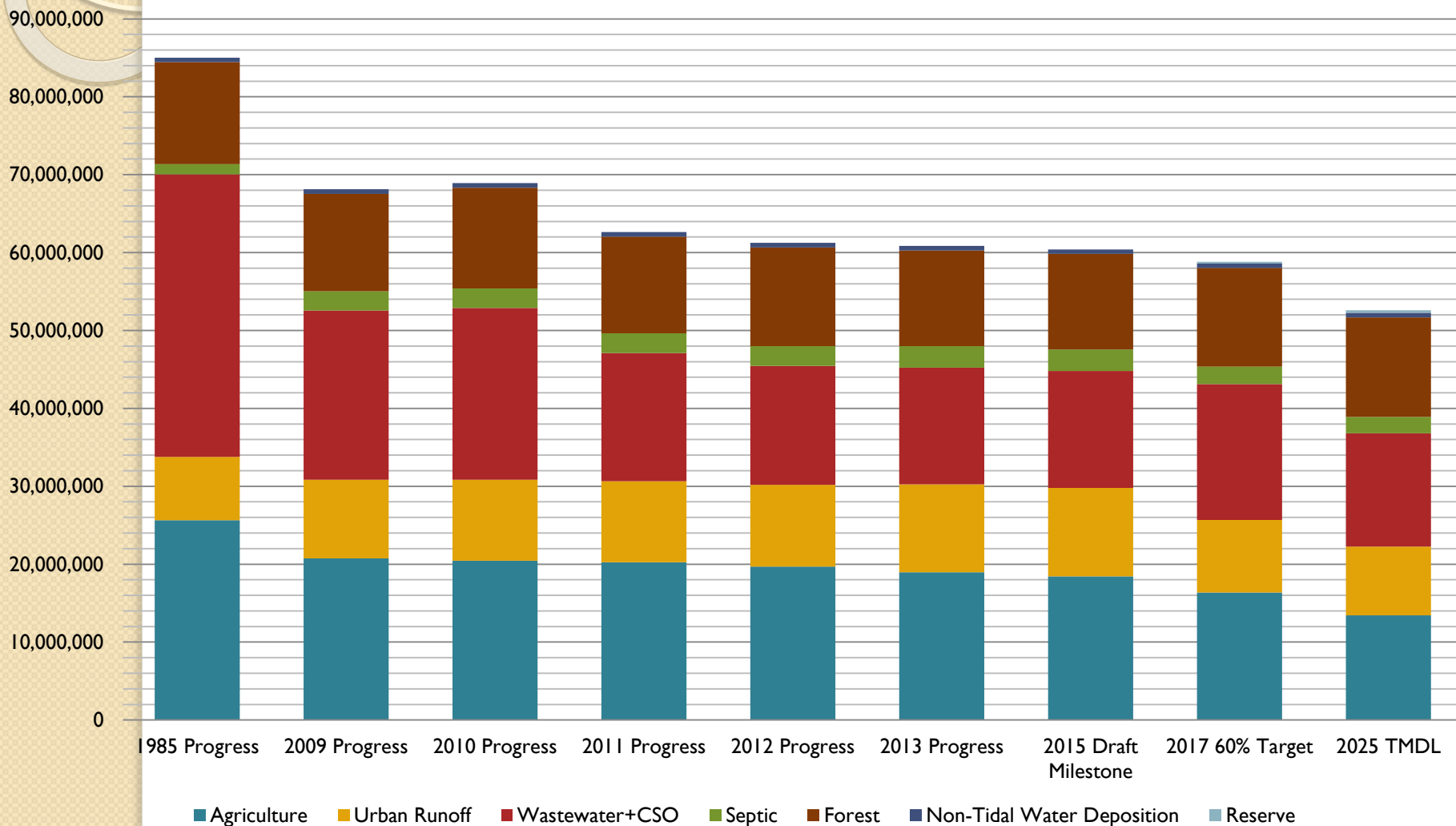
- Further divide final Bay TMDL allocations for 39 segments into local area targets
- Work with local elected officials, staff, conservation districts, watershed associations and citizens to identify strategies to be implemented to reduce delivered loads to the Bay
- Provide additional detail on programs, technologies, and practices to implement by 2017
- Include updates resulting from revisions to the Watershed Model v5.3.2.
- Include specific programs and practices in the first 2-year milestones (2012-2013)

2012-2013 Milestones

- **Programmatic Milestones**
 - Major deliverables to support implementation
 - 51 specific Milestones across all sectors
- **Implementation Projection**
 - Forecast for 2013 developed in 2011
 - Cumulative BMP Units - 3.46 Million BMP Units
 - Modeled on projected 2010 Landuse
- **Load Reduction Milestone**
 - Nitrogen: 62.4 Million lbs/year
 - Phosphorus: 8.05 Million lbs/year
 - Sediment: 3.625 Billion lbs/year

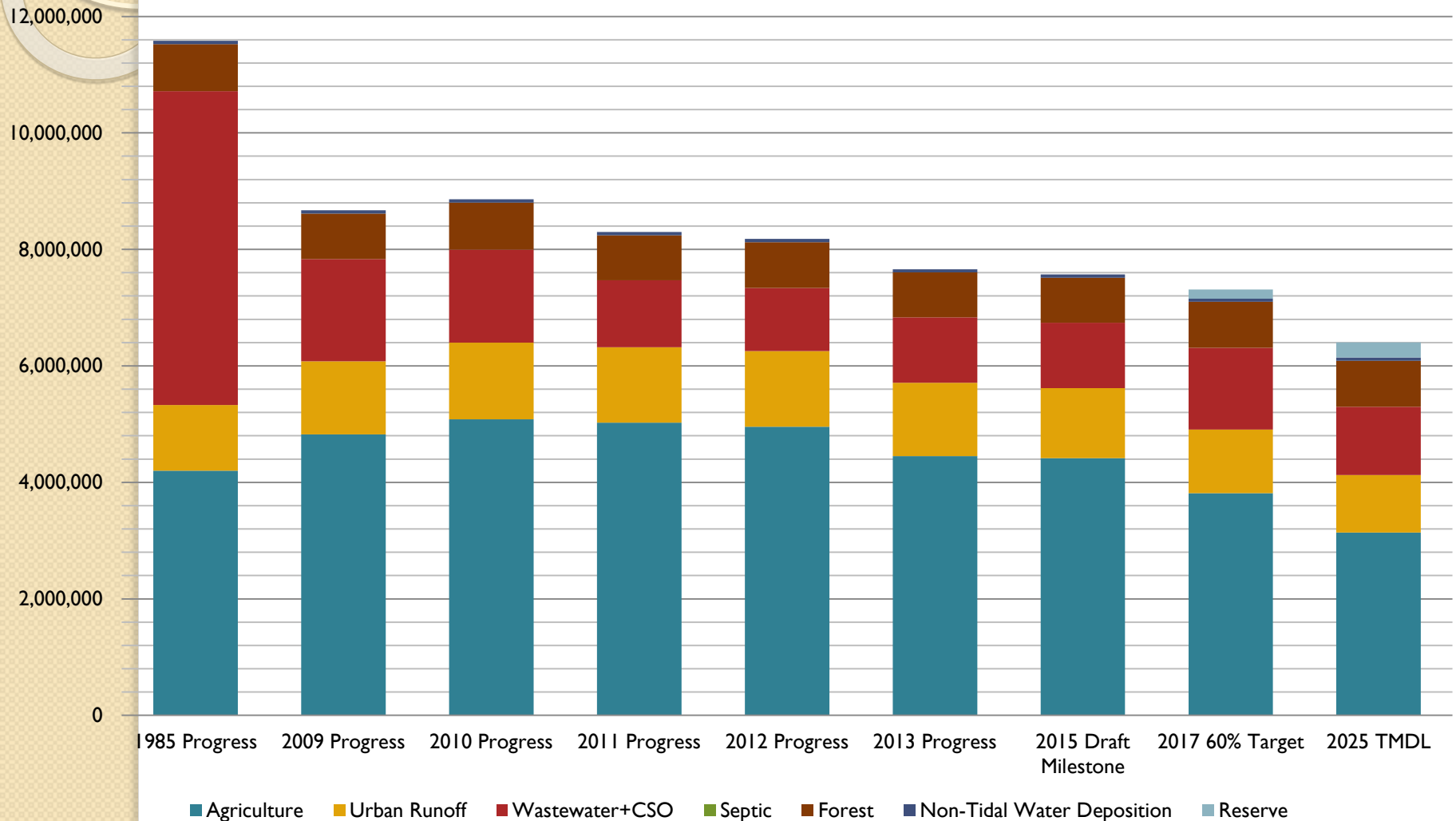
Virginia Estimated Delivered Nitrogen Loads

Lbs TN/Year CBWM v5.3.2



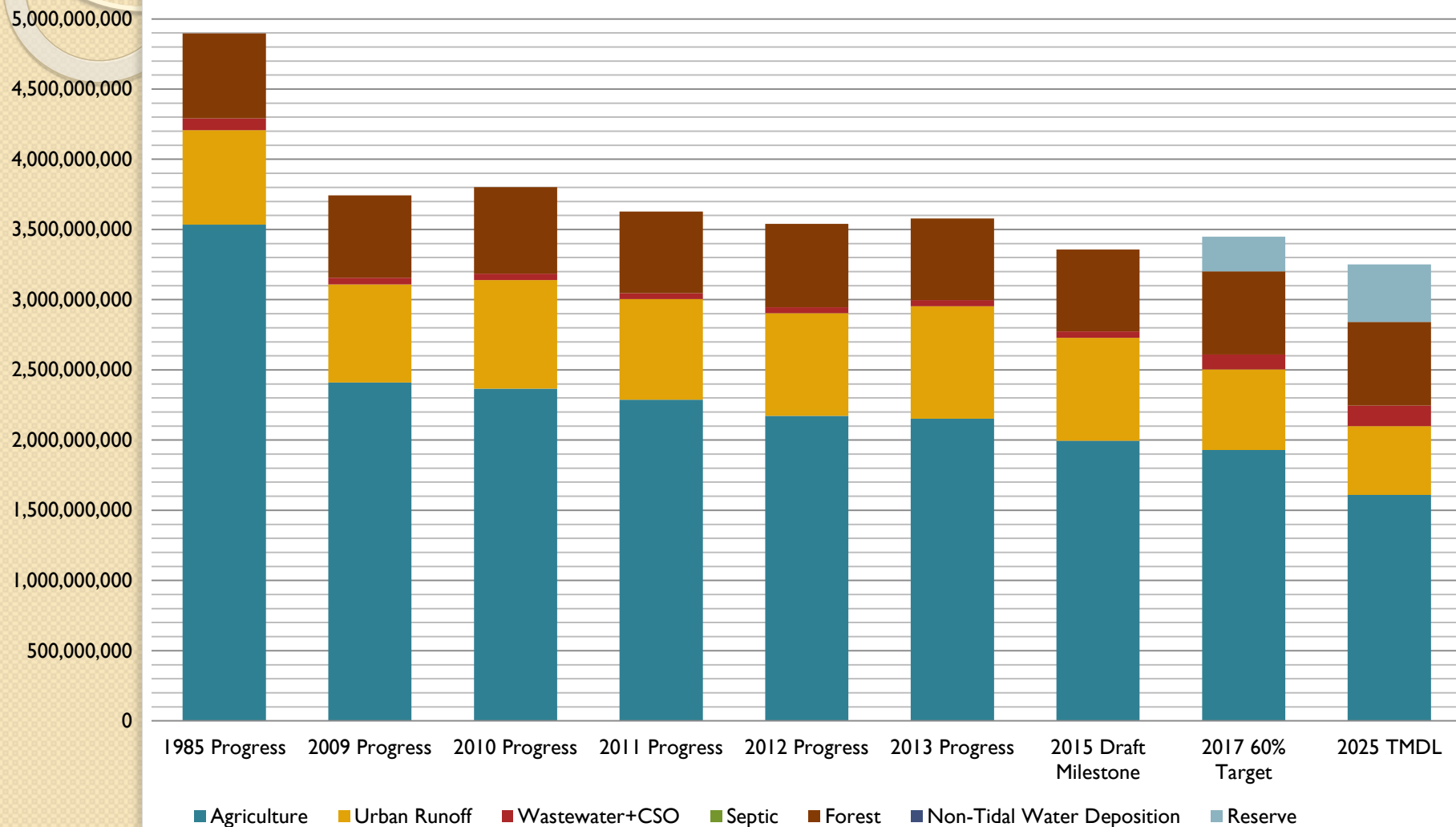
Virginia Estimated Delivered Phosphorus Loads

Lbs TP/Year CBWM v5.3.2



Virginia Estimated Delivered Sediment Loads

Lbs TSS/Year CBWM v5.3.2



	2009	2013	2013	2017	2025
	Baseline	Progress	Milestone	Target	Target
	(M lbs/year)	(M lbs/year)	(M lbs/year)	(M lbs/year)	(M lbs/year)
State	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen
PA	116.64	112.71	110.31	94.05	79.00
MD	51.95	47.57	51.16	45.48	41.17
VA	68.13	60.86	62.41	58.80	52.59
WV	5.47	5.25	5.41	5.20	5.02
DE	4.47	4.52	4.43	3.82	3.39
NY	10.72	10.91	11.15	9.60	8.85
DC	2.88	1.77	2.48	2.58	2.37
State	Phosphorus	Phosphorus	Phosphorus	Phosphorus	Phosphorus
PA	4.984	4.541	4.730	4.136	3.571
MD	3.301	2.999	3.140	3.006	2.810
VA	8.672	7.660	8.048	7.310	6.402
WV	0.899	0.741	0.830	0.741	0.635
DE	0.345	0.352	0.302	0.304	0.277
NY	0.956	0.836	1.008	0.768	0.642
DC	0.071	0.061	0.062	0.100	0.120
State	Sediment	Sediment	Sediment	Sediment	Sediment
PA	2,644	2,565	2,440	2,225	1,945
MD	1,395	1,253	1,394	1,368	1,350
VA	3,743	3,578	3,625	3,448	3,251
WV	445	345	320	402	373
DE	99	99	80	99	100
NY	332	321	315	315	304
DC	17	17	18	17	17

2012-2013 Milestones Closeout

- **Programmatic Milestones**

- ✓ 28 Completed
 - 22 Continued into 2015 milestones
 - 1 Closed

- **Implementation Projection**

- 2013 Progress Cumulative BMP Units – 4.26 Million BMP Units

- **Load Milestone: Exceed Milestones for N, P, and S**

- Modeled on 2013 projected landuse (incorporated growth)
- ✓ Nitrogen: 60.9 Million lbs/year
- ✓ Phosphorus: 7.66 Million lbs/year
- ✓ Sediment: 3.578 Billion lbs/year

2014-2015 Milestones Overview

- **Programmatic Milestones**
 - Draft Milestones submitted to EPA on 3/15
 - Made available for public input
 - 63 specific Milestones across all sectors
 - Primarily State program initiatives
 - Working to better capture local efforts
- **Implementation Projection**
 - Submitted to EPA on 3/15
- **Load Reduction Milestone**
 - Goal is to stay below straight line trajectory to 2017



2014-2015 Milestones

Sectors/Subjects

- Agriculture including CAFO/AFO
- Urban including MS4
- Onsite Sewage Systems
- Forest
- Industrial Stormwater
- Wastewater
- Extractive
- Local Engagement
- Federal Facilities
- Trading and Offsets
- James River Phased Implementation/Chlorophyll Study

Key Milestone/TMDL Initiatives Moving Forward

- Development and Implementation of Resource Management Plans (RMP)
- Implementation of Construction General Permit with better reporting and tracking of permit coverage and BMPs
- Issuance of all Phase I MS4 permits with WIP phased reductions
- Accelerate livestock exclusion practice through SL – 6 implementation including revision of draft input deck
- Complete evaluation of small AFOs and improve management
- Complete evaluation of historic BMP data and update accordingly
- Better Engage Local Governments and Stakeholders
- Better Engage federal facilities
- Enact Nutrient Trading Certification Regulations
- Finalize James River Chlorophyll Study

SUBMITTAL TO EPA ON MAY 15 (**Today!!!**) OF FINAL MILESTONES

Chesapeake Bay Watershed Agreement





Chesapeake Bay Watershed Agreement - Priorities

- Governor McAuliffe advocated additions of toxics and climate change
- Governor has committed Virginia to be “all in” in the development of management strategies so all goals and outcomes
- We have worked closely with the watershed states to support their inclusion in as full partners the agreement

Further Info:

- <http://www.deq.virginia.gov/Programs/Water/ChesapeakeBay/ChesapeakeBayWatershedImplementationPlan.aspx>



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