

# EPA Interim Evaluation of Chesapeake Bay 2014–2015 Milestones and WIP Progress

Pennsylvania Citizens Advisory Council  
July 21, 2015

Suzanne Trevena  
EPA Water Protection Division  
Chair Milestone Workgroup

# Overview

---

- ▶ What are the 2-year milestones?
- ▶ Current Numeric Progress Results
- ▶ Evaluation findings
- ▶ Expectations for 2017

# Milestones Evaluation

---

- ▶ Are jurisdictions and federal agencies on track to achieve:
  - 2014–2015 milestone commitments?
  - Practices in place by 2017 to achieve 60% of necessary reductions compared to 2009?
- ▶ Milestones comprise:
  - Numeric: translate practices into load reductions and compare to long-term trajectories
  - Programmatic: Actions to build capacity to achieve necessary implementation levels

# Evaluation Types

- ▶ 2014–2015 Interim Evaluation
  - Current progress results
  - Includes achievements, actions to meet the current milestones and recommendations for future milestones
- ▶ 2014–2015 Final Evaluation
  - Final progress results for 2014–2015 milestone period
  - Final milestone achievements and milestones missed in 2014–2015
  - 2016–2017 milestone strengths, areas to address, and if 2016–2017 milestones are on pace

# The Evaluation Team

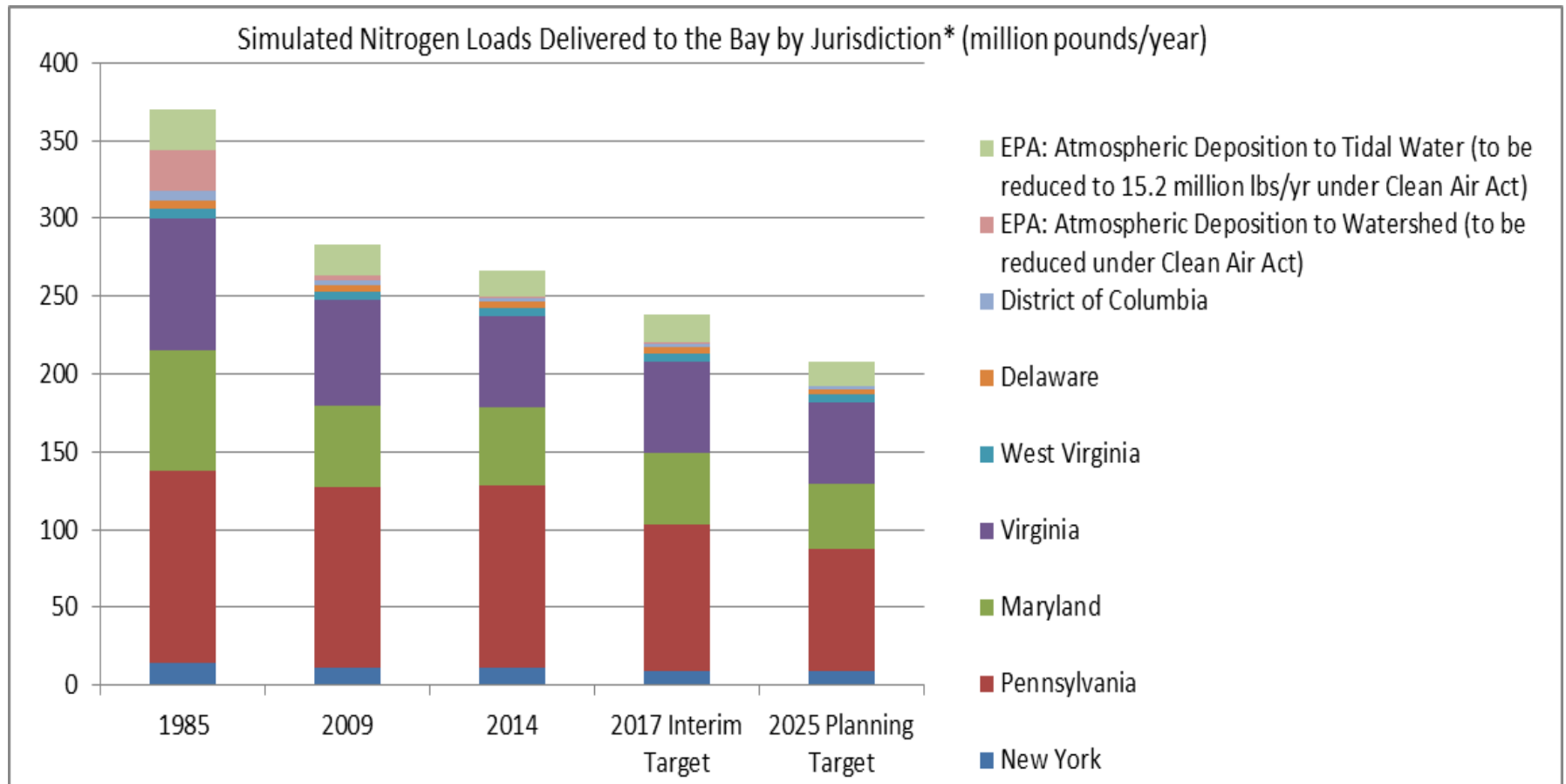
- ▶ State WIP leads
- ▶ Sector experts
  - Agriculture
  - Urban/Stormwater
  - Wastewater
  - Trading/Offsets/Growth
  - Modeling
  - Local Engagement
- ▶ Bay Grant project officers
- ▶ Senior Managers

# 2015 Oversight Status

	Agriculture:	Urban/Suburban:	Wastewater:	Trading/Offsets:
DE	Ongoing Oversight	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
DC	Not Applicable	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
MD	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
NY	Ongoing Oversight	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
PA	Backstop Actions Level	Backstop Actions Level	Ongoing Oversight	Enhanced Oversight
VA	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight
WV	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight

\* Green fading to yellow indicates potential downgrade at the end of the 2014–2015 milestone period if specific actions aren't taken.

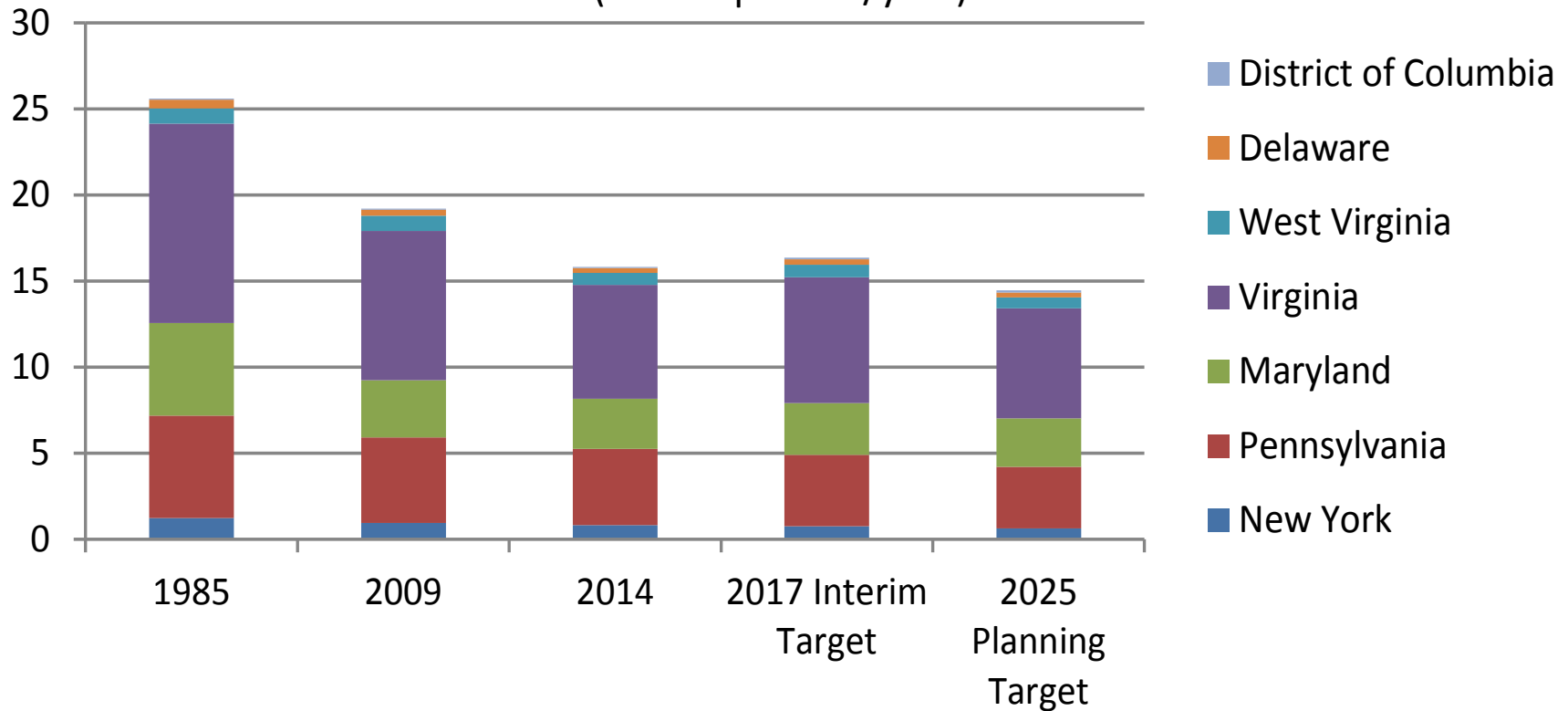
# Overall Nitrogen Progress and Goals by Jurisdiction



\*Loads simulated using 5.3.2 version of Watershed Model and wastewater discharge data reported by Bay jurisdictions..

# Overall Phosphorus Progress and Goals by Jurisdiction

Simulated Phosphorus Loads Delivered to the Bay by Jurisdiction\*  
(million pounds/year)

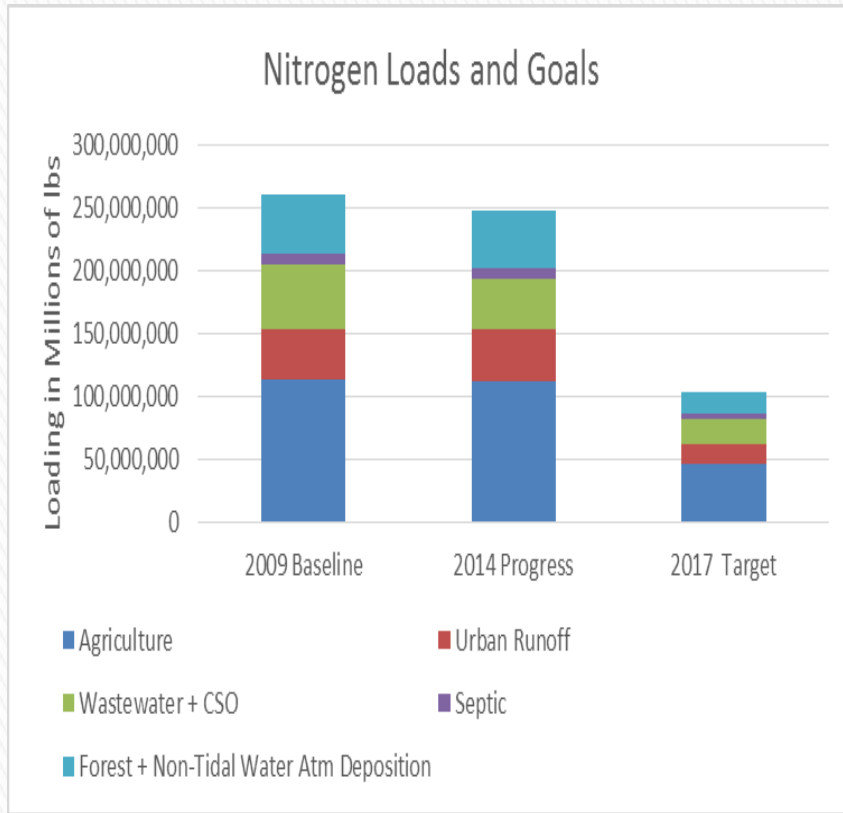


\*Loads simulated using 5.3.2 version of Watershed Model and wastewater discharge data reported by Bay jurisdictions.

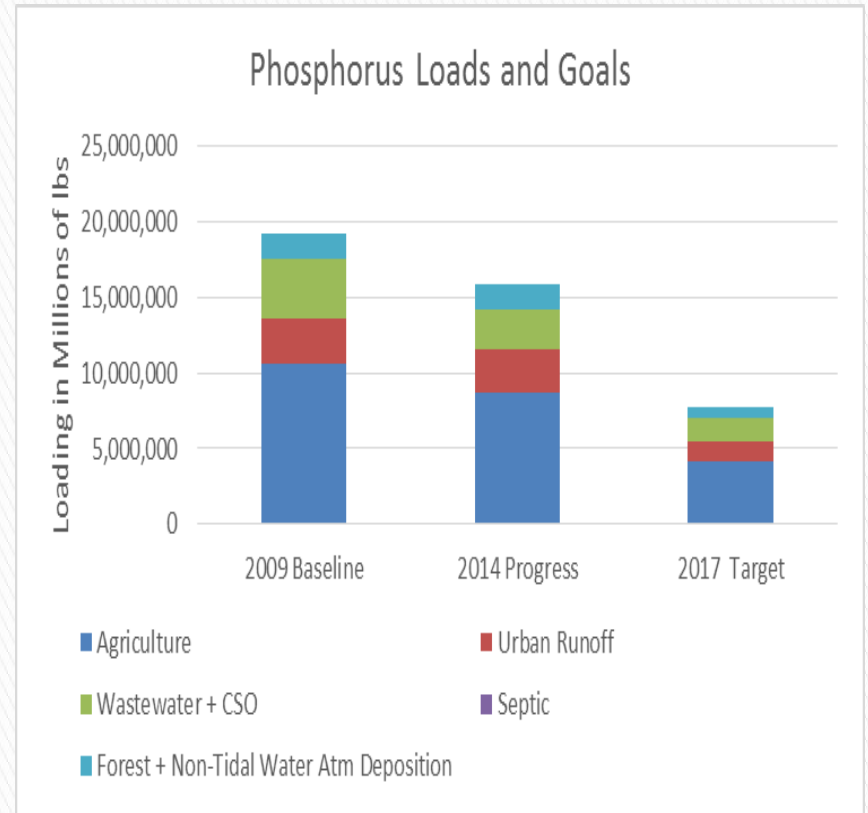
\* Although the 2014 Reduction in Pollution Indicator suggests jurisdictions are ahead of schedule in reducing phosphorus loads, other recent data suggest additional level of effort will be needed to manage phosphorus.



# Overall Numeric Progress and Goals by Sector



**Watershed-wide N reduced by 17%; 38% would be “on pace”**



**Watershed-wide P reduced by 71%\*; 38% would be “on pace”**

\* Although the 2014 Reducing Pollution Indicator suggests jurisdictions are ahead of schedule in reducing phosphorus loads, other recent data suggest additional level of effort will be needed to manage phosphorus.

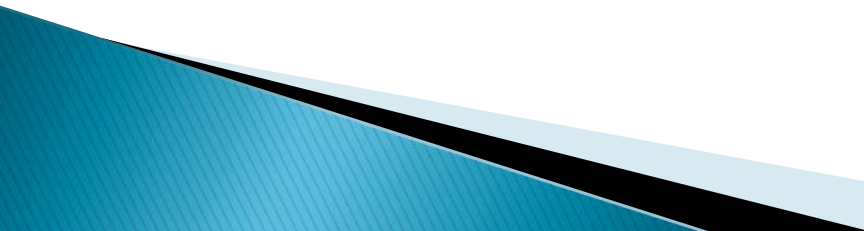
# Delaware

---

## Achievements

- Confined Animal Feeding Operation (CAFO) General Permit for non-land applying poultry operations was submitted to EPA and has been approved
- Conducted cropland transect surveys in 2014 to track and report cover crop and conservation tillage data and will be conducting these surveys annually in the future

## Issues to Address

- Reissue 3 of 4 expired significant wastewater treatment plant permits
  - Issue CAFO and MS4 Phase II permits
- 

# District of Columbia

---

## Achievements

- Met its milestone for construction of Enhanced Nutrient Removal (ENR) facilities at Blue Plains
- Met and exceeded its estimated square feet of green roof installation

## Issues to Address

- Increase reductions from the urban sector to get on track to meet the targets for 2017 and 2025
- 

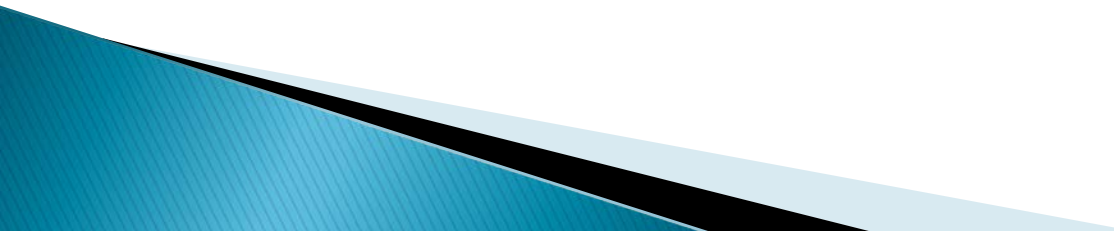
# Maryland

---

## **Achievements**

- Moving forward with the Phosphorus Management Tool to help ensure programs and capacity are in place to manage phosphorus from agricultural lands
- Completed issuance of the Phase I MS4 permits and the Construction General Permit

## **Issues to Address**

- Issue the tentative determinations for the Phase II MS4 permits by the end of 2015
  - Move forward with Accounting for Growth regulations or provide alternative commitment to account for growth
- 

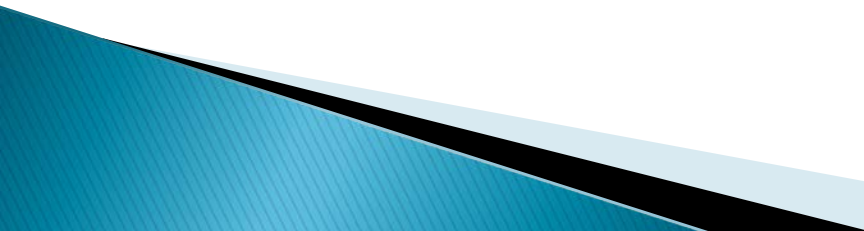
# New York

---

## Achievements

- The Dairy Acceleration program received \$700,000 in 2014 to support voluntary Comprehensive Nutrient Management Plan development
- Issuing final permits with nutrient limits to 29 of the 30 significant dischargers in New York

## Issues to Address

- Release amended drafts of the Federal and State CAFO General Permits for notice and public comment sector in 2015
  - Ensure that the next update of the MS4 General permit includes provisions that address reductions in the urban stormwater sector
- 

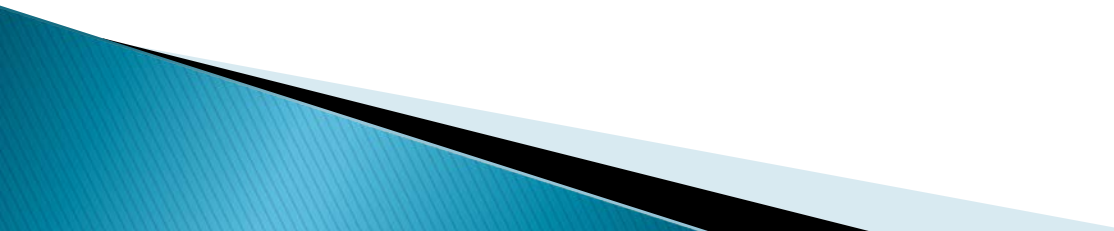
# Pennsylvania

---

## Achievements

- Using transect surveys to improve tracking and reporting for tillage and cover crop acres
- Performed 3 targeted watershed assessments to ensure compliance with state regulations
- Conducted over 376 stormwater construction permit termination inspections in 2014

## Issues to Address

- Increase progress in agriculture and stormwater to get on track to meet nitrogen targets for 2017, with focus on highest priority water quality BMPs
  - Finalize the Nutrient Trading program strategy that is consistent with the Chesapeake Bay TMDL
- 

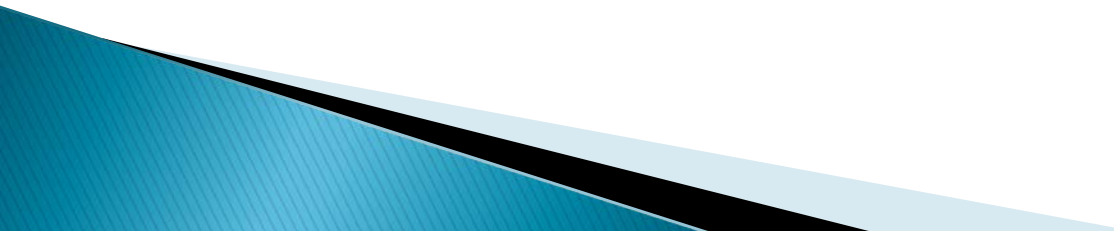
# Virginia

---

## Achievements

- Spent ~\$25 million in the Chesapeake Bay watershed since 2012 for stream exclusion in order to continue to support this practice at 100% through June 2015
- Expects to have 274 Resource Management Plans (RMPs) developed by the end of 2015, exceeding its milestone of 40 RMPs
- Providing \$1.5 million in EPA CBRAP grant funds to localities for cleanup of historic urban best management practice data

## Issues to Address

- Reissue remaining, administratively continued Phase I MS4 and VDOT permits
  - Continue development of the online nutrient credit registry during 2015
- 

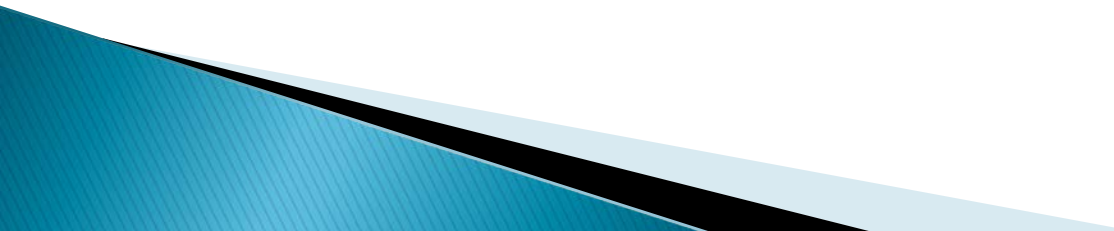
# West Virginia

---

## Achievements

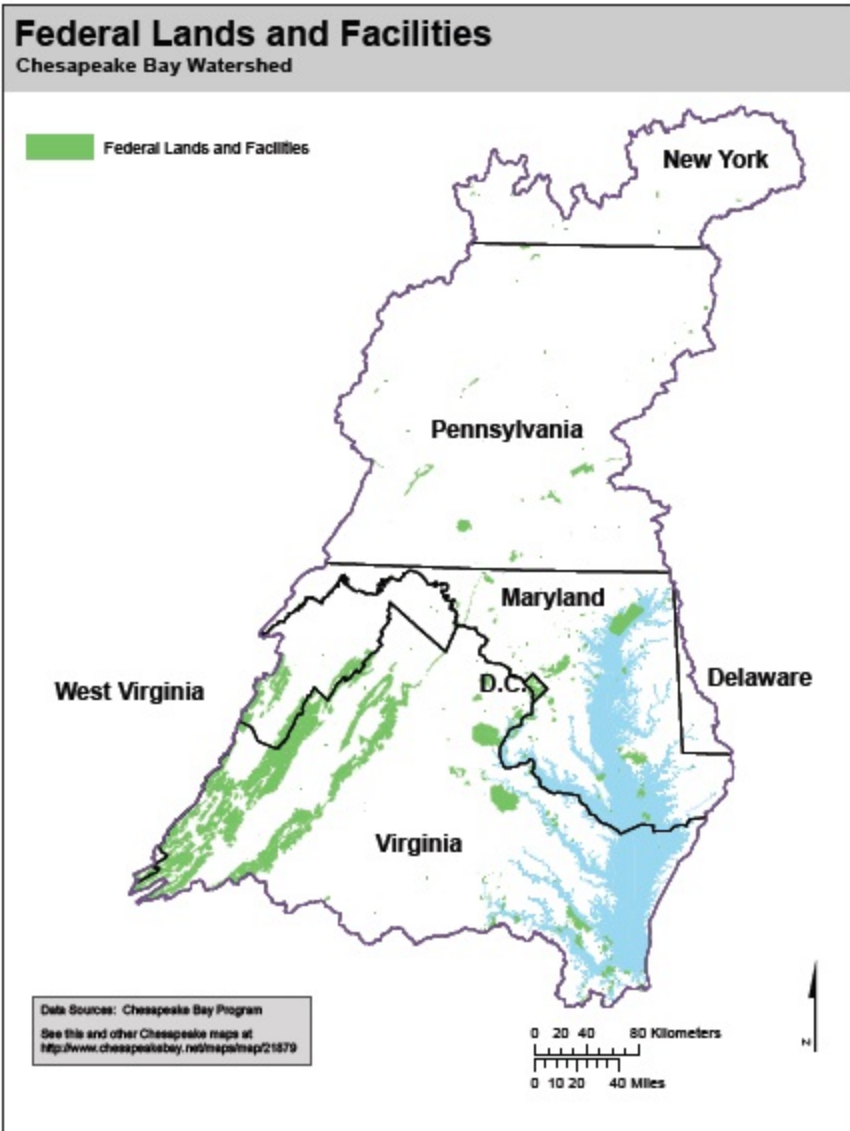
- Made changes to increase the amount of acres under nutrient management in order to meet its 2025 goal of 90,000 acres
- Reissued its MS4 General Permit in 2014; that permit is now in effect

## Issues to Address

- Target additional stormwater BMPs, such as filtration practices, or identify alternative strategies to keep West Virginia's urban/suburban loads on track with its 2017 and 2025 targets
- 



# Federal Agencies



## Achievements

Several agencies coordinated to provide the Lower Susquehanna River Watershed Assessment

DOD provided BMP progress data and historic BMP data

Federal Facilities Targets Action Team (FFTAT) work to develop federal targets protocol

## Issues to Address

Improve BMP progress reporting by federal facilities

Submit implementation forecasts for 2016–2017 milestones by November 1, 2015

# Expectations by 2017

- ▶ Practices in place to achieve 60% of necessary reductions compared to 2009
- ▶ Programmatic progress demonstrating ability to achieve future reductions on schedule, including for nonpoint sources
- ▶ Interim evaluations include jurisdiction specific recommendations
  - Respond to EPA program assessments
  - Continue to identify new loads and offset within appropriate timeframe
  - Meet historic data cleanup and verification deadlines in 2015

# Milestone Schedule

## 2014–2015

- ▶ **12/1/15:** Final numeric progress (BMP implementation)
- ▶ **1/15/16:** Final programmatic progress
- ▶ **~March 2016:** Final 14–15 progress results available

## 2016–2017

- ▶ **1/15/16:** Draft numeric and programmatic milestones
- ▶ **~March 2016:** Revise milestones based on final 2015 progress
- ▶ **~May 2016:** EPA post final evaluations on 2014–2015 and 2016–2017 milestones

# For More Information

## Bay TMDL, Watershed Implementation Plans, Milestones and EPA Evaluations

- ▶ [www.epa.gov/chesapeakebaytmdl](http://www.epa.gov/chesapeakebaytmdl)

## Pollutant Load and BMP Progress and Targets

- ▶ <http://stat.chesapeakebay.net/>

## Reducing Pollution Indicators

- ▶ <http://www.chesapeakebay.net/track/restoration>

## Milestone Page on ChesapeakeStat

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

## Suzanne Trevena, U.S. Environmental Protection Agency

- ▶ [trevena.suzanne@epa.gov](mailto:trevena.suzanne@epa.gov)