



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Chesapeake Bay Program Office

Pennsylvania's Phase 3 Watershed Implementation Plan

May 31, 2019

Healthy Waters, Healthy Communities

Tom Wolf, Governor

Patrick McDonnell, Secretary

Phase 3 WIP Public Comment Period

- Website:

DEP Chesapeake Bay Program Website:

<http://www.dep.pa.gov/ChesapeakeBay>

Phase 3 WIP Website:

www.dep.pa.gov/chesapeakebay/phase3

- eComment:

(<https://www.ahs.dep.pa.gov/eComment>)

- Webinars, Focus Groups, Meetings



Phase 3 Watershed Implementation Plan

Pennsylvania is working with neighboring states to clean up our shared local waterways that run to the Chesapeake Bay.

This effort is the Phase 3 Watershed Implementation Plan (Phase 3 WIP).

The path to success starts locally.

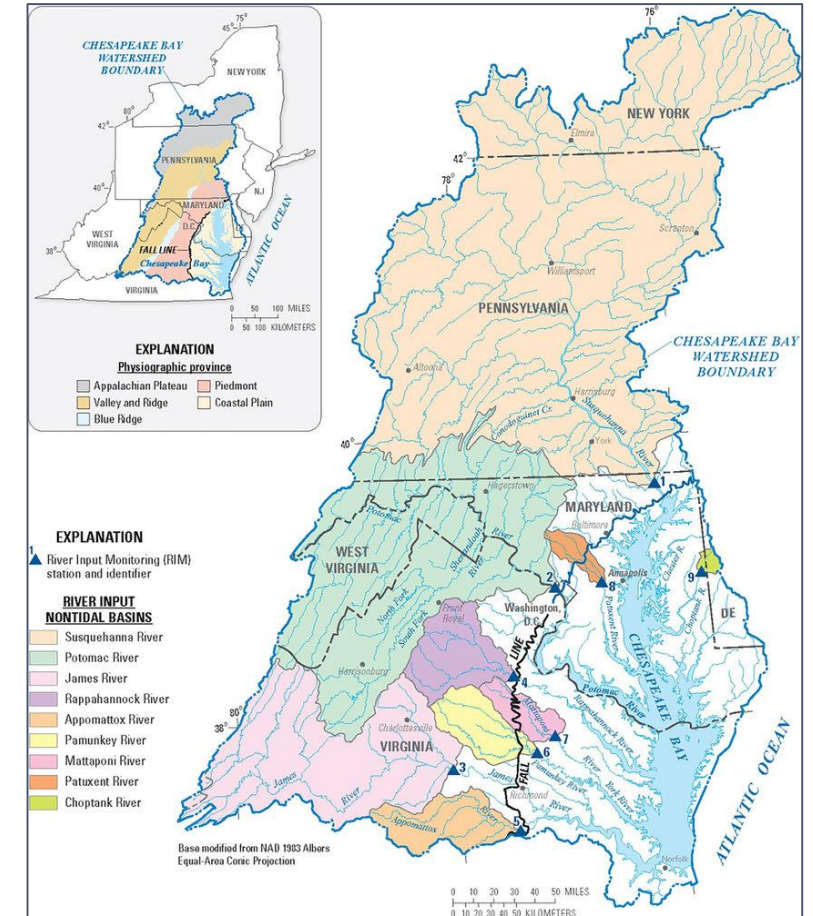


Image Source: Zhang, Qian & Blomquist, Joel. (2018). *Science of The Total Environment*.

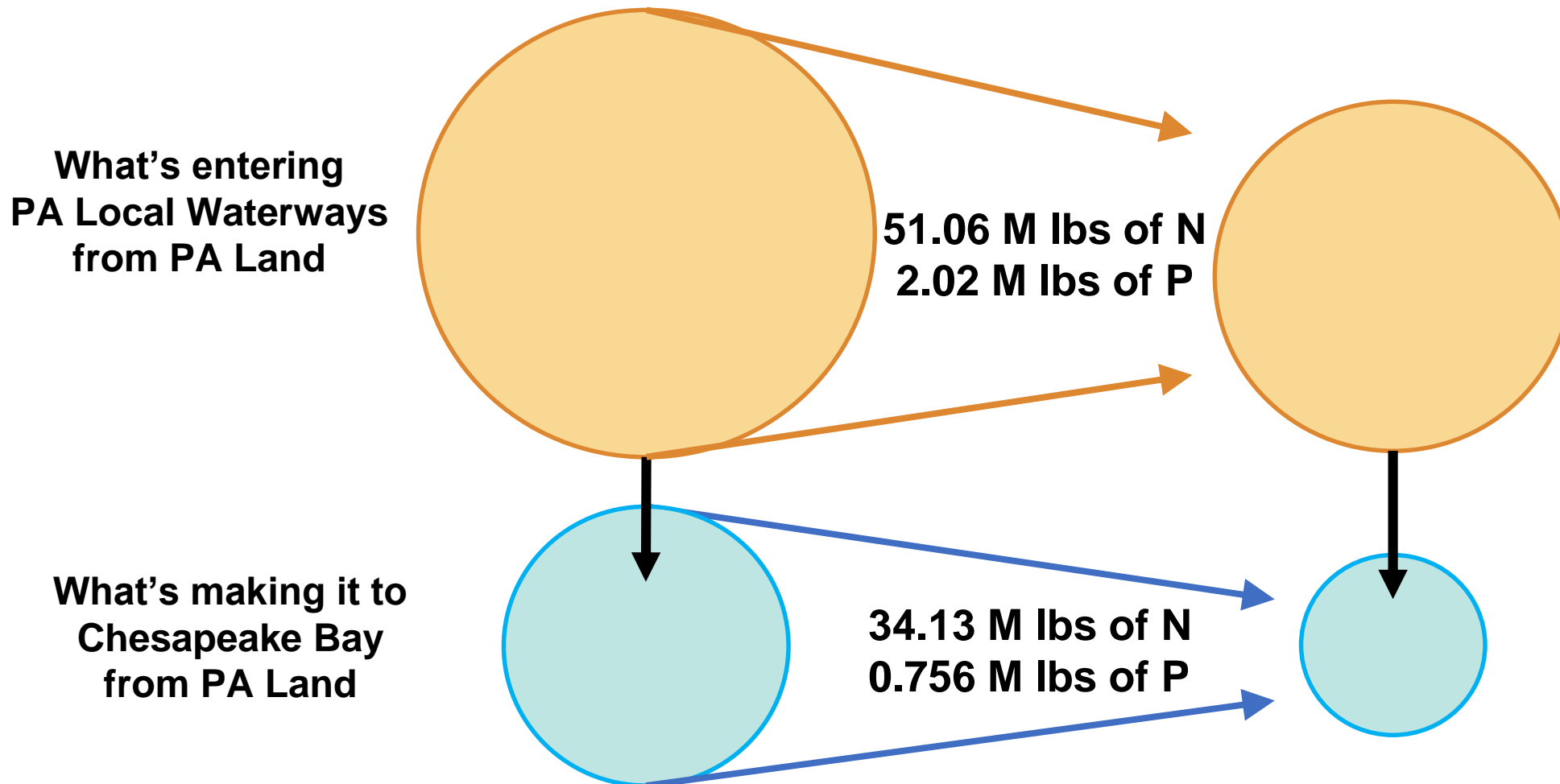
What is the Phase 3 WIP?



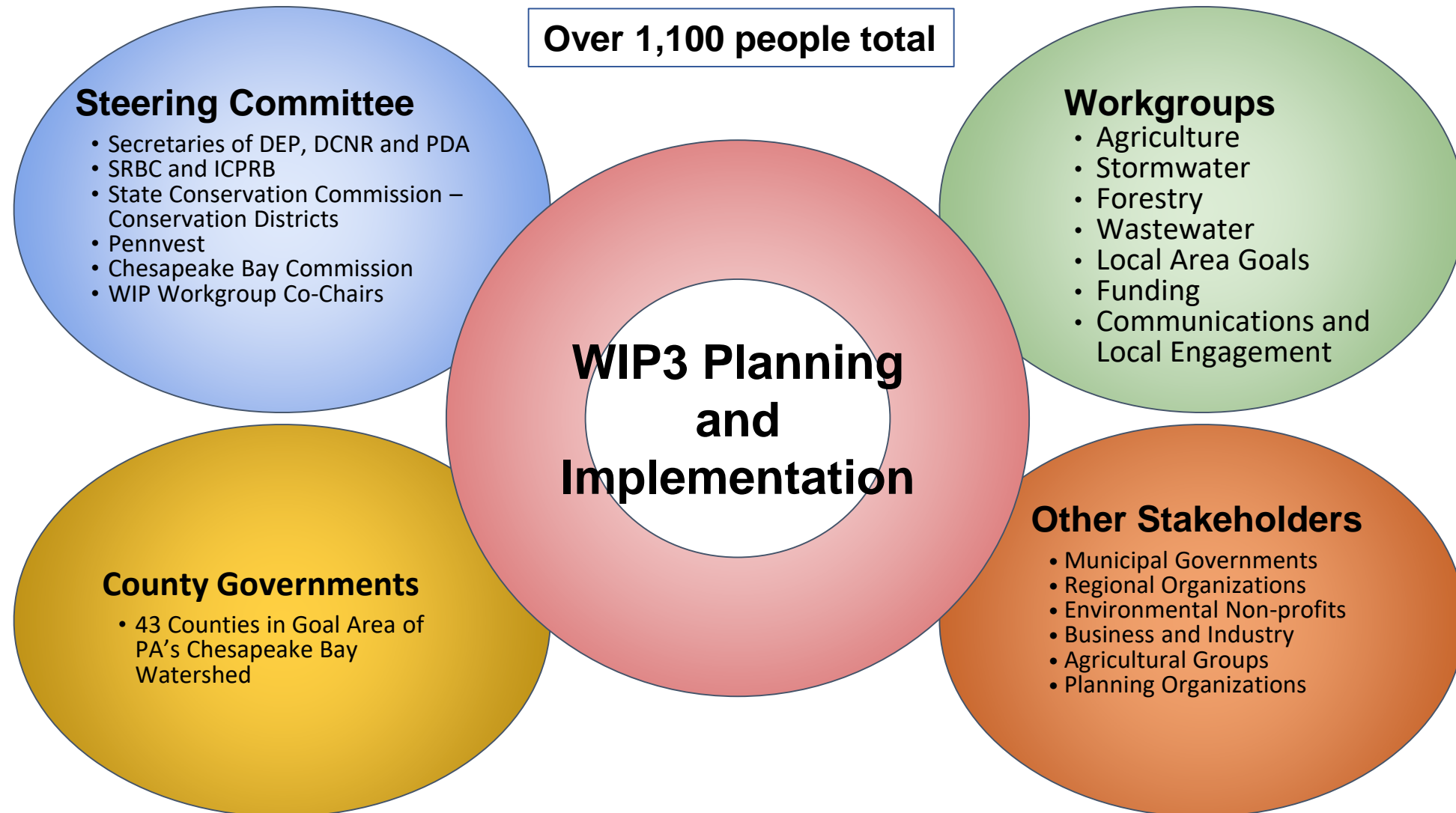
... and, get credit for the work already underway.

Bay Goals and Local Waters Goals

Reductions necessary to PA's Local Waterways and the Chesapeake Bay



Who is involved?



Themes to Phase 3 WIP Implementation

Working Together to Clean Up Our Local Waters

1. Communications
2. Funding and Resources
3. Enhancing Technical Capacity
4. Tracking and Reporting
5. Compliance

Phase 3 WIP Draft Document

Executive Summary

1 -- Introduction

2 -- State Actions – Programmatic and Numeric Commitments

3 -- Countywide Actions

4 -- Communication and Engagement Strategy

5 -- Existing and Needed Resources

6 -- Federal Role

7 -- Milestones and Progress Reporting

8 -- Accounting for Growth

9 -- Climate Change and Climate Resiliency

10 -- Conclusion

Integrated Documents

- Countywide Action Plan Planning Guide & County Toolboxes
- Countywide Action Plans
 - Lancaster, York, Adams and Franklin
- Federal Facility Action Plans
 - Department of Defense
- Milestone and Progress Reporting Template
 - State Actions
- Draft BMP Verification Plan
- County and Workgroup Recommendations

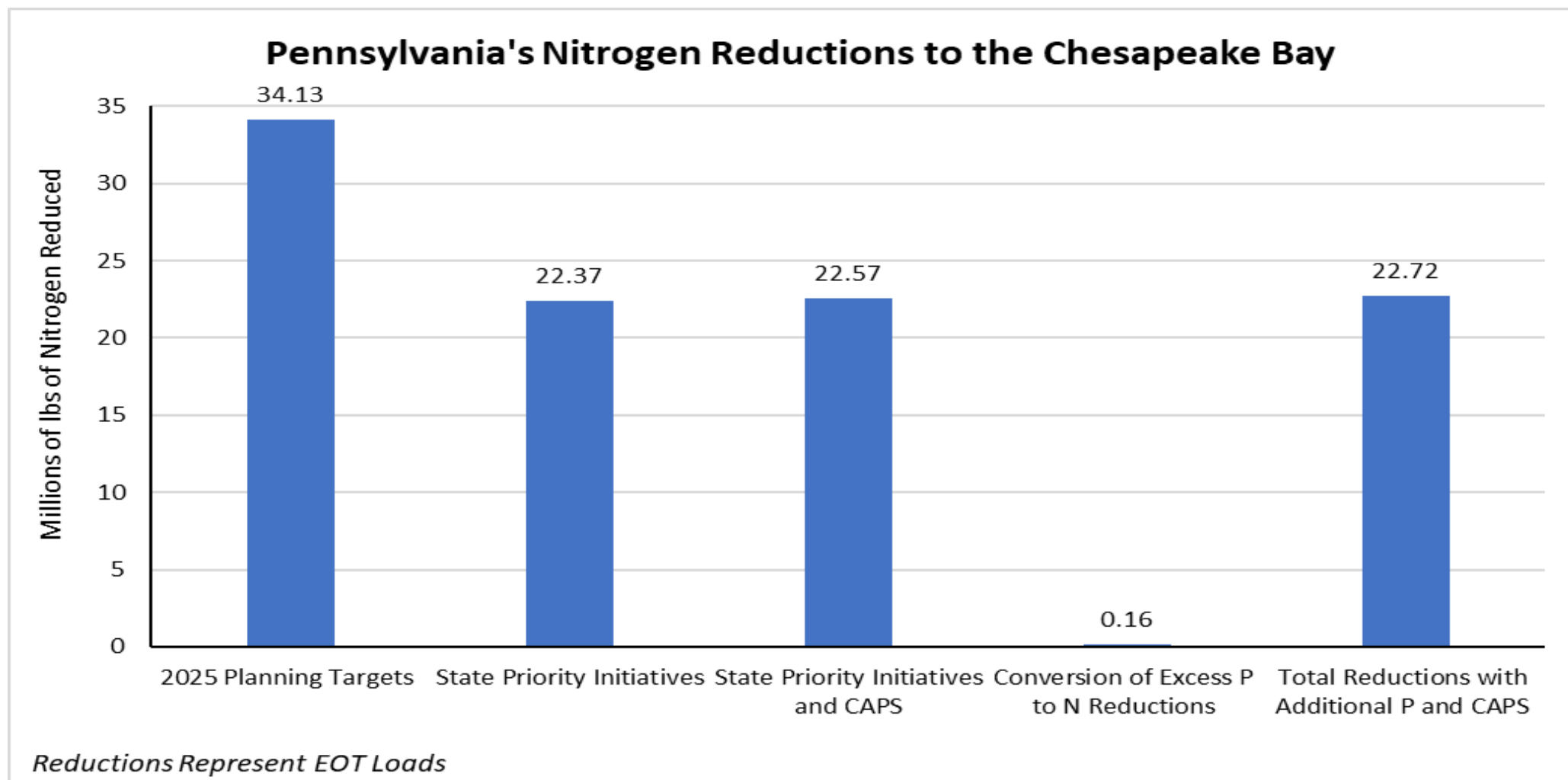
Programmatic Commitments -- Highlights

- Legislative, Regulatory, Programmatic Enhancements
 - Options for a Dedicated Funding Source
 - Fertilizer Bill, Revisions to Clean Streams Law
 - One-Stop-Shop for Technical Assistance, Block Grants
- Under-reported Practices – Tracking and Verification
 - Data Management System
 - BMP Verification
- Programs Not Currently Credited

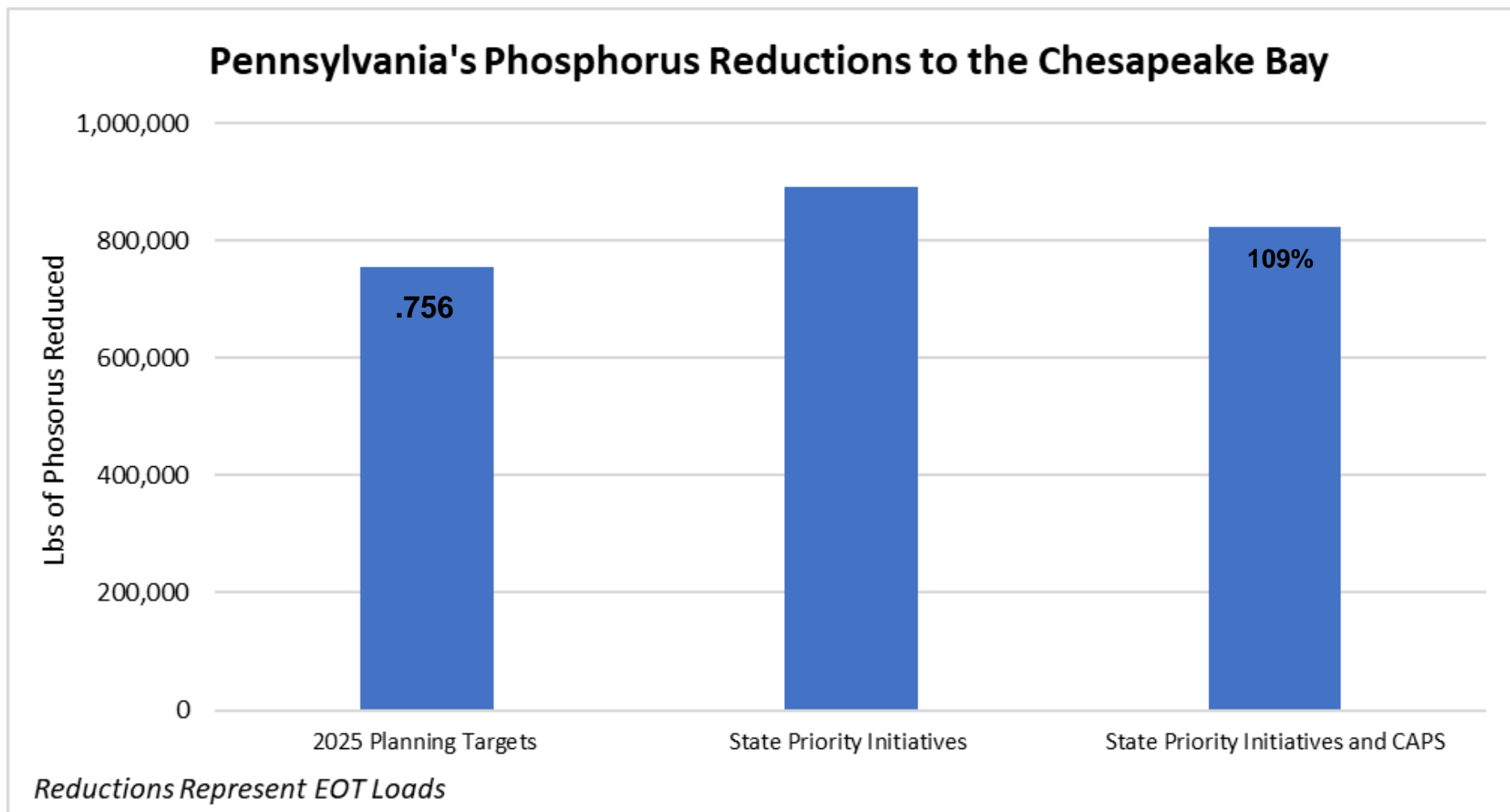
State Priority Initiatives, Numeric Commitments , Cost and Reductions

Statewide Workgroup Recommendation	Nitrogen Reduction (to Pennsylvania Streams)	Phosphorus Reduction (to Pennsylvania Streams)	Estimated <u>Annual</u> Cost for Practice Implementation ²
Agriculture			
Total	28,572,000	1,790,000	\$313,140,000
Agriculture Compliance	7,381,000	251,000	\$33,105,000
Soil Health	7,337,000	298,000	\$32,980,000
Expanded Nutrient Management	755,000	34,000	\$20,853,000
Manure Storage Facilities	7,167,000	300,000	\$214,042,000
Precision Feeding	604,000	61,000	(-\$1,687,000)
Integrated Systems for Elimination of Excess Manure	1,230,000	101,000	\$4,666,000
Grassed Riparian Buffers	4,098,000	747,000	\$9,183,000
Stormwater¹			
Total	296,000	39,250	\$78,552,000
Meet Current MS4 Permit Requirements	179,000	34,000	\$74,033,000
New Riparian Forest Buffers	7,000	1,000	\$68,000
Residential Pools and Car Washing	3,000	150	\$898,000
Industrial Stormwater	2,000	100	\$3,553,000
Fertilizer Legislation	105,000	4,000	TBD
Recommendations for the 2023 MS4 Permit ¹	TBD	TBD	TBD
Forestry			
Total	7,681,000	1,029,000	\$67,701,000
Forested Riparian Buffers	7,445,000	993,000	\$41,439,000
Tree Canopy	180	10	\$5,400
Woods and Pollinator Habitat	86,000	5,300	\$1,046,000
Forest, Farm, and Natural Areas Conservation	TBD	TBD	TBD
Stream and Wetland Restoration	147,000	29,000	\$27,303,000
Total State Priority Initiatives (to Pennsylvania Streams)	33,239,000	2,123,000	\$459,393,000

Total Reduction Results from Priority Initiatives



Total Reduction Results from Priority Initiatives



Merging with Countywide Action Plans

This bar chart shows how the State Priority Initiatives or Actions merge with the Countywide Action Plans.

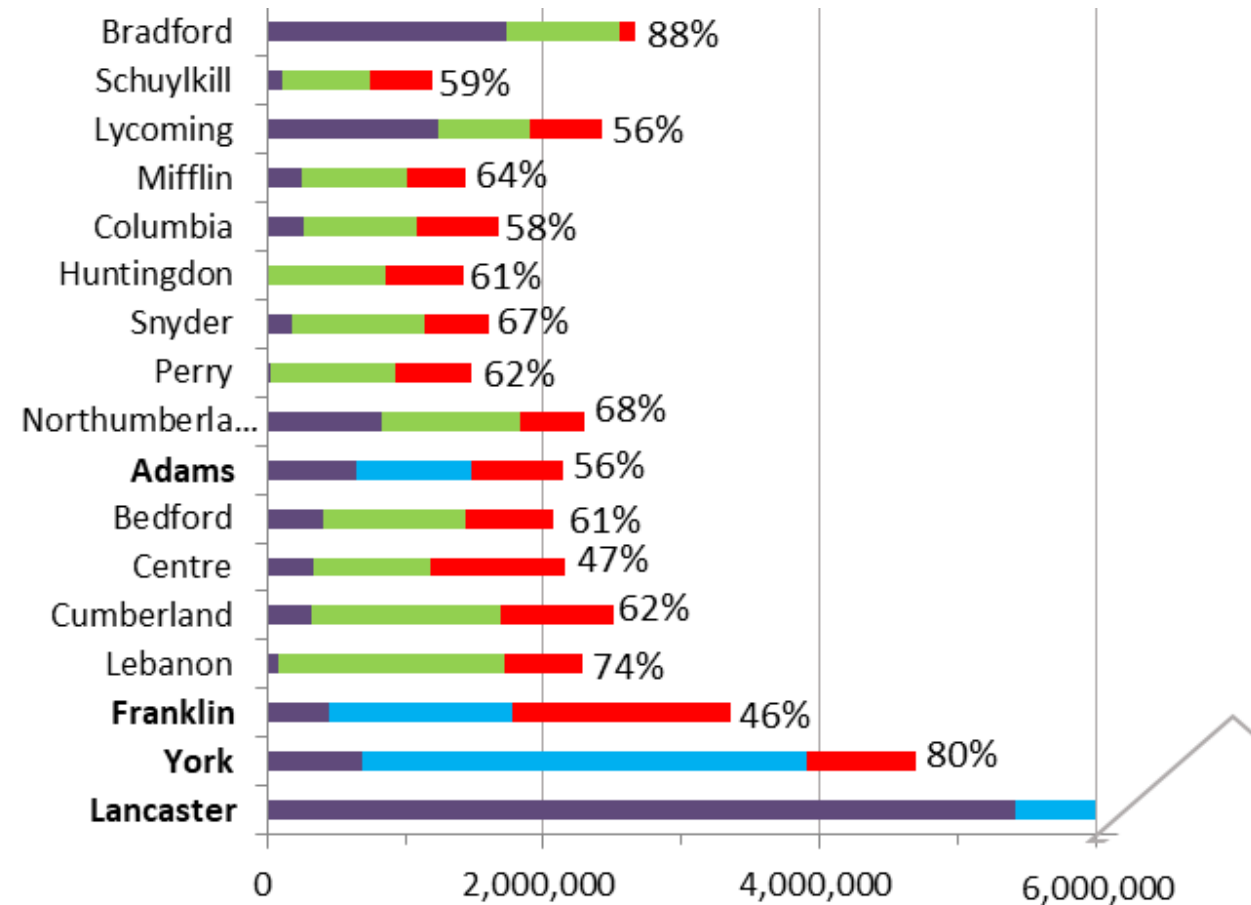
The **purple bar** represents the nitrogen reductions since 1985.

The **green bar** represents the State Priority Initiatives numeric commitments.

The **blue bar** represents a completed Countywide Action Plan.

The **red bar** represents the remaining gap between the Countywide Action Plan and the 2025 Chesapeake Bay goal.

Zoomed in portion of graph



NOTE: Lancaster County's bar has been cut off due to scale. Their Countywide Action Plan has reduced 80%.

Pounds of Nitrogen

Phased Plan Implementation

Phase 1	Phase 2			
Tier 2 - Second 25% of Reductions	Tier 3 - Third 25% of Reductions		Tier 4 - Last 25% of Reductions	
Franklin -- Completed Lebanon Cumberland Centre Bedford	Adams -- Completed Northumberland Perry Snyder Huntingdon Columbia Mifflin Lycoming	Schuylkill Bradford Juniata Clinton Tioga Susquehanna Clearfield Fulton	Union Chester Dauphin Berks Blair Lackawanna Luzerne Montour Cambria Sullivan	Potter Somerset Wyoming Elk Indiana Cameron Wayne McKean Jefferson Carbon

NOTE: Plans for the Tier 1 Counties, **Lancaster and York**, are also **Completed**.

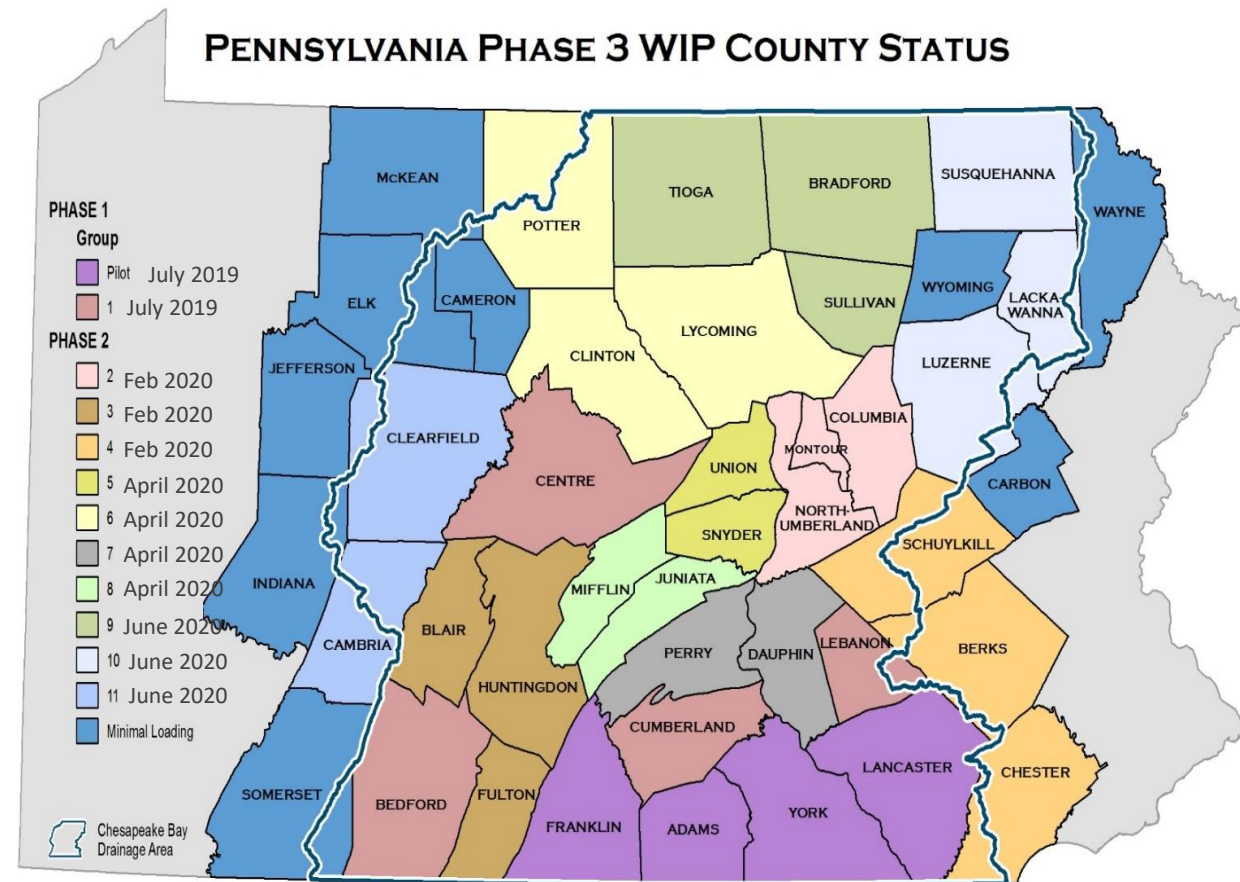
Phased Plan Implementation

Phase 1 (Begins Summer 2019 and lasts 6 to 8 months)

- Efforts in this phase are focused on the eight Tier 1 & 2 counties that make up 54% of PA's nutrient load.
- Actions include:
 - Assist Pilot Counties with transition from planning to Countywide Action Plan implementation.
 - Work with remaining Tier 2 counties to develop and implement Countywide Action Plans.
 - Begin outreach to Tier 3 and 4 counties.

Phase 2 (Begins February 2020 and lasts 6 to 8 months)

- Efforts in this phase are focused on the thirty-five Tier 3 & 4 counties that make up 46% of PA's nutrient load.
- Actions include:
 - Continue to assist Pilot and Tier 2 counties with Countywide Action Plan implementation.
 - Break Tier 3 and 4 counties into regional groupings based on existing partnerships.
 - Work with regional groups to help Tier 3 and 4 counties to develop and implement Countywide Action Plans.



How Does a County Prepare Its Action Plan?

Pennsylvania Countywide Pilot Planning Process Phase III WIP

**Convene
Countywide
Action Team
Members**

**Identify
Water
Quality and
Other Goals**

**Identify Local
Resources**

**Select and
Report
Actions**

**Implement
Actions and
Continue to
Report Actions**

How Does a County Prepare Its Action Plan?

- DEP Support Team
 - DEP Staff Person from Chesapeake Bay Office (Internal Coordinator)
 - DEP Regional Office
- External Coordinator (County Planning Team Lead)
- Technical Coordinator (Technical Support to Counties)

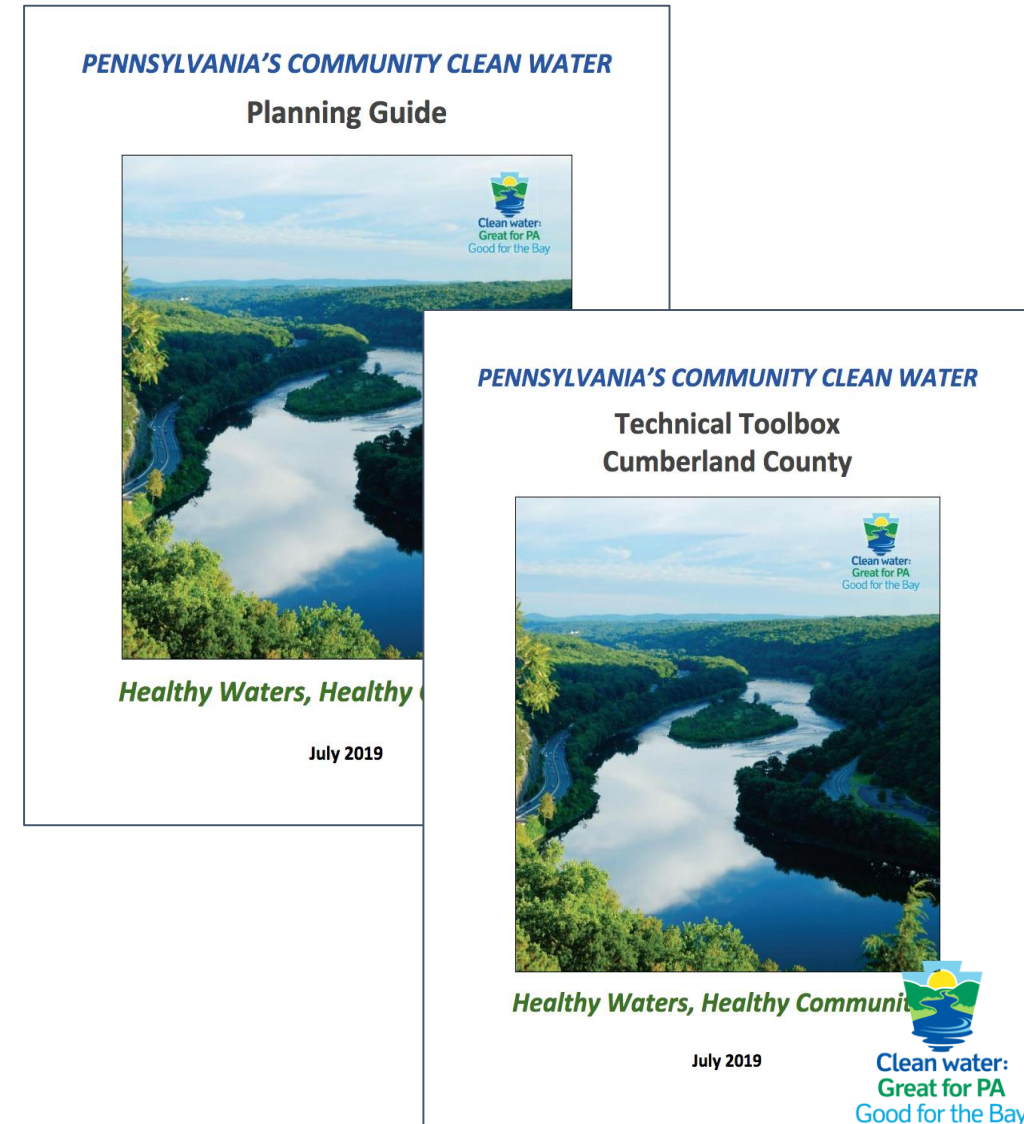
Planning Resources and Support

Community Clean Water Planning Guide

- Standardized introduction to and overview of PA's Phase 3 WIP planning process
- Clearly defined framework for process, directions
- Timeline and expectations
- Real world examples from pilot counties

Community Clean Water Technical Toolbox

- Customized toolbox populated with county-specific data
- Simplified technical information provided
- Provides clarity on in-stream monitoring
- Incorporates the state WIP workgroup recommendations and state initiatives



Next Steps for the Phase 3 WIP

Phase 3 WIP	What's Next	When
Finalize Draft for Public Comment	<ul style="list-style-type: none">• Write first draft of the Phase 3 WIP• Revise Phase 3 WIP and Submit by April 12, 2019	Submitted April 12, 2019
Public Comment	<ul style="list-style-type: none">• Invite public comment on Draft Phase 3 WIP	April 12 – June 7, 2019
Finalize the Phase 3 WIP	<ul style="list-style-type: none">• Phase 3 WIP finalized and submitted	August 9, 2019
Implementing the Phase 3 WIP	<ul style="list-style-type: none">• Phase 1 Countywide Action Plan development begins• Phase 2 begins	July 2019 Feb 2020





Questions?



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Public Comment (April 12 through June 7, 2019)

eComment: (<https://www.ahs.dep.pa.gov/eComment>)

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Phase 3 WIP Website:

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Sign Up for Participation in Countywide Action Plan

RA-EPChesBay@pa.gov



Clean water:
Great for PA
Good for the Bay