

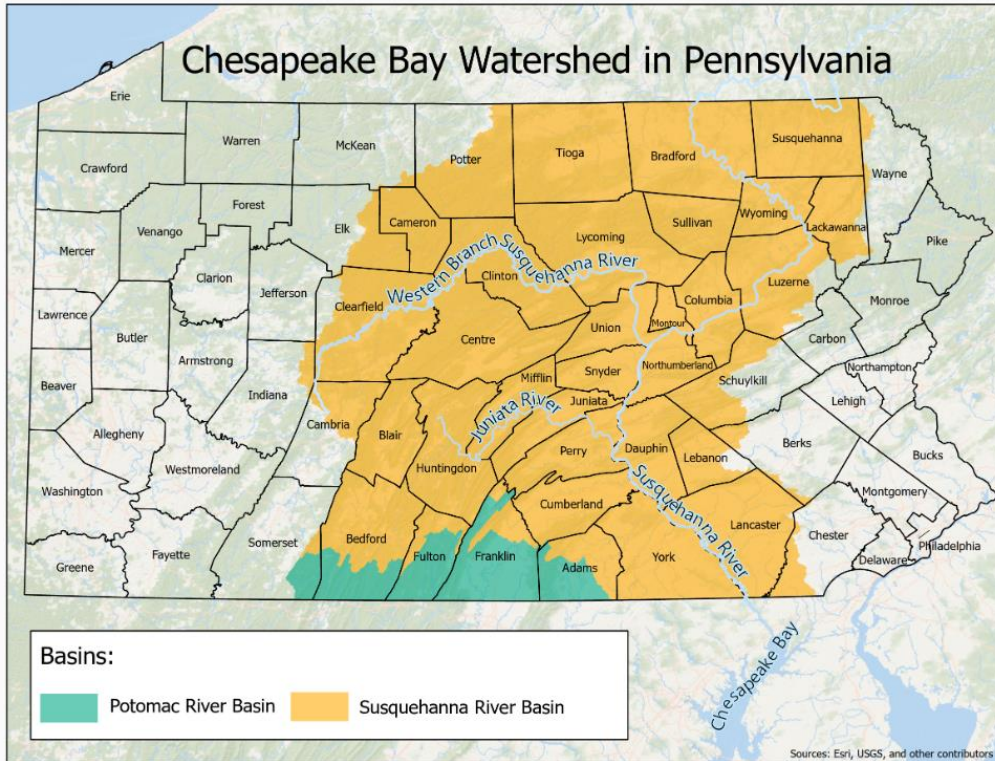
Communication of Progress Towards the Bay TMDL

Bureau of Watershed Restoration and Nonpoint Source Management
Chesapeake Bay Watershed Restoration Division
6/5/2025





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Goal: Less Nutrient and Sediment Pollution

Contributions

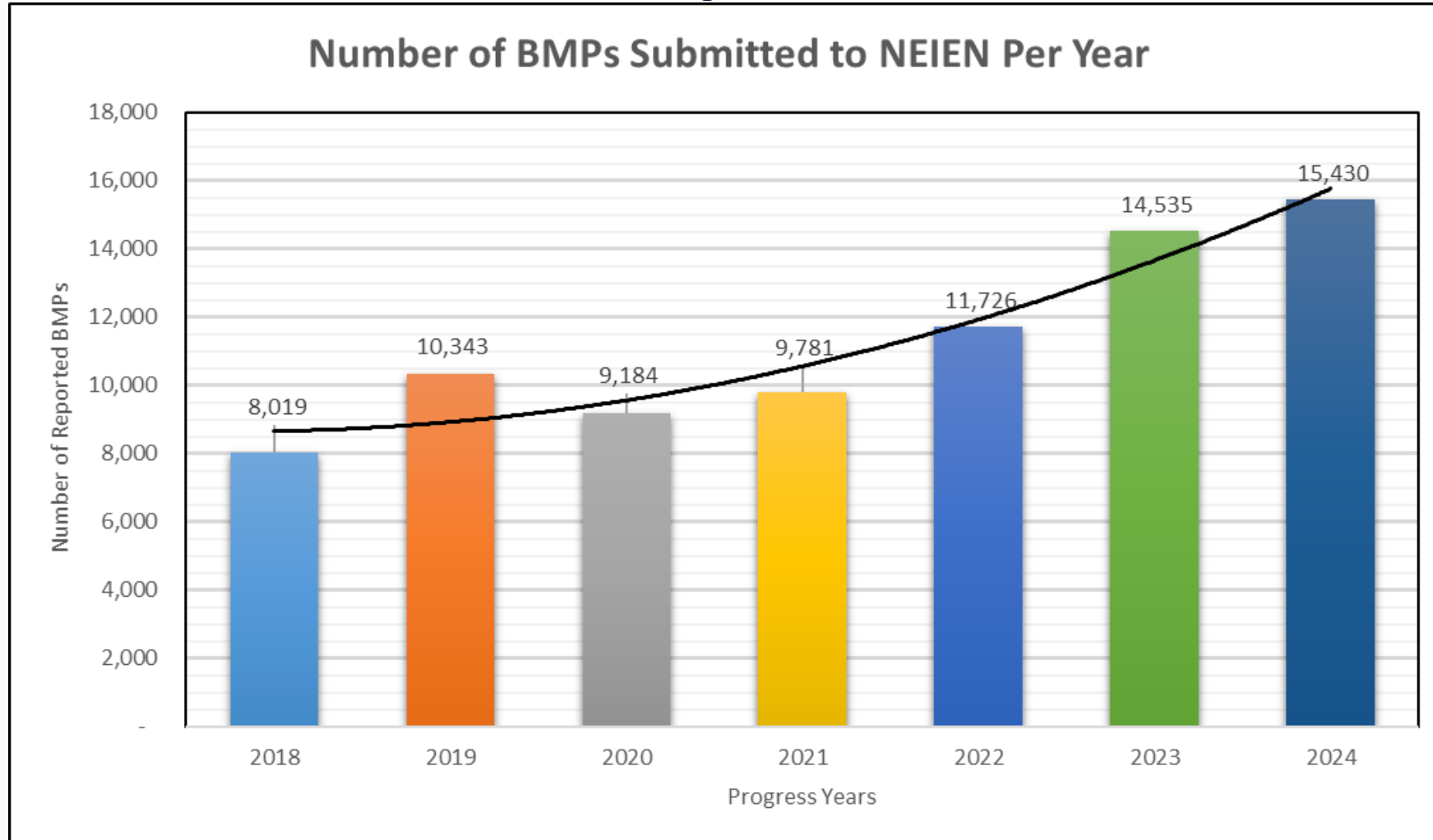
Who Contributes to PA's QAPP?

Data Reporters from across a variety of programs that implement nutrient-reducing BMPs, collect and report BMP implementation data, and provide this numeric data and QAPP updates to PA DEP for submission to EPA's Chesapeake Bay Program Office (CBPO).



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BMP Implementation Trending Up

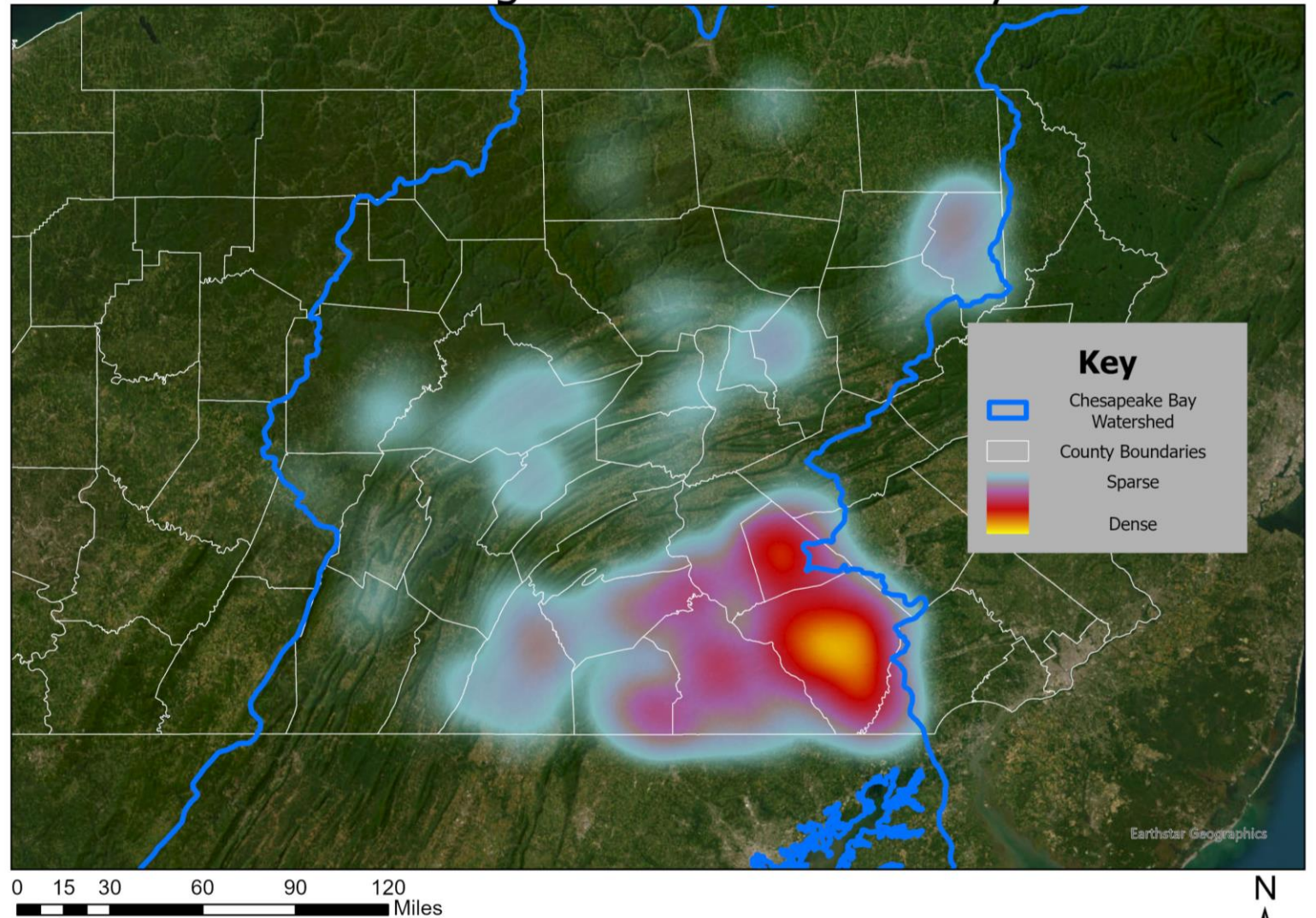




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The heat index map is comprised solely of BMPs reported to NEIEN/CAST with corresponding Latitude and Longitude coordinates for the 2024 progress year.

2024 Progress Year BMP Density

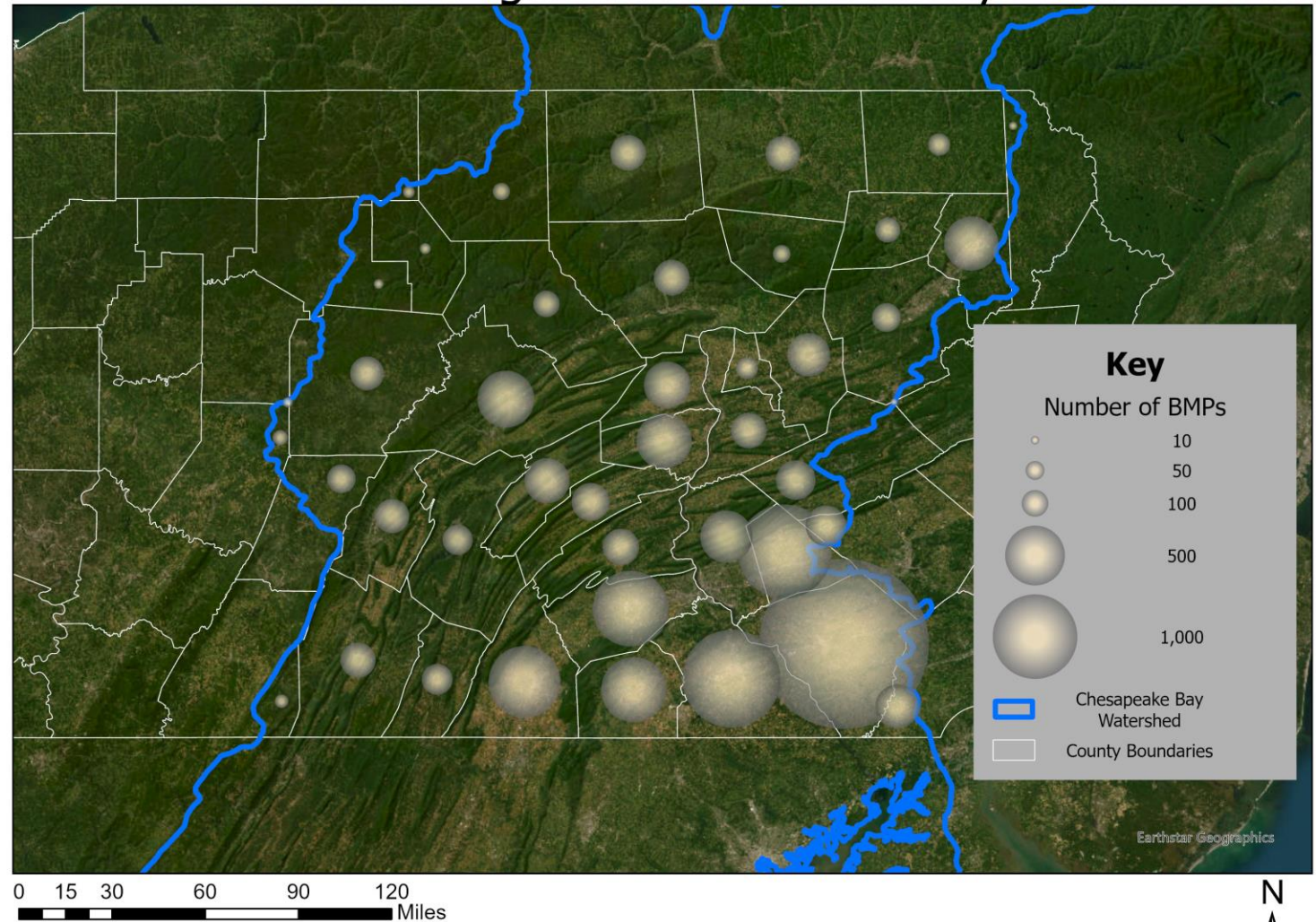




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The County dot density
map exclusively
incorporates data collected
throughout the 2024
progress year.

2024 Progress Year Dot Density

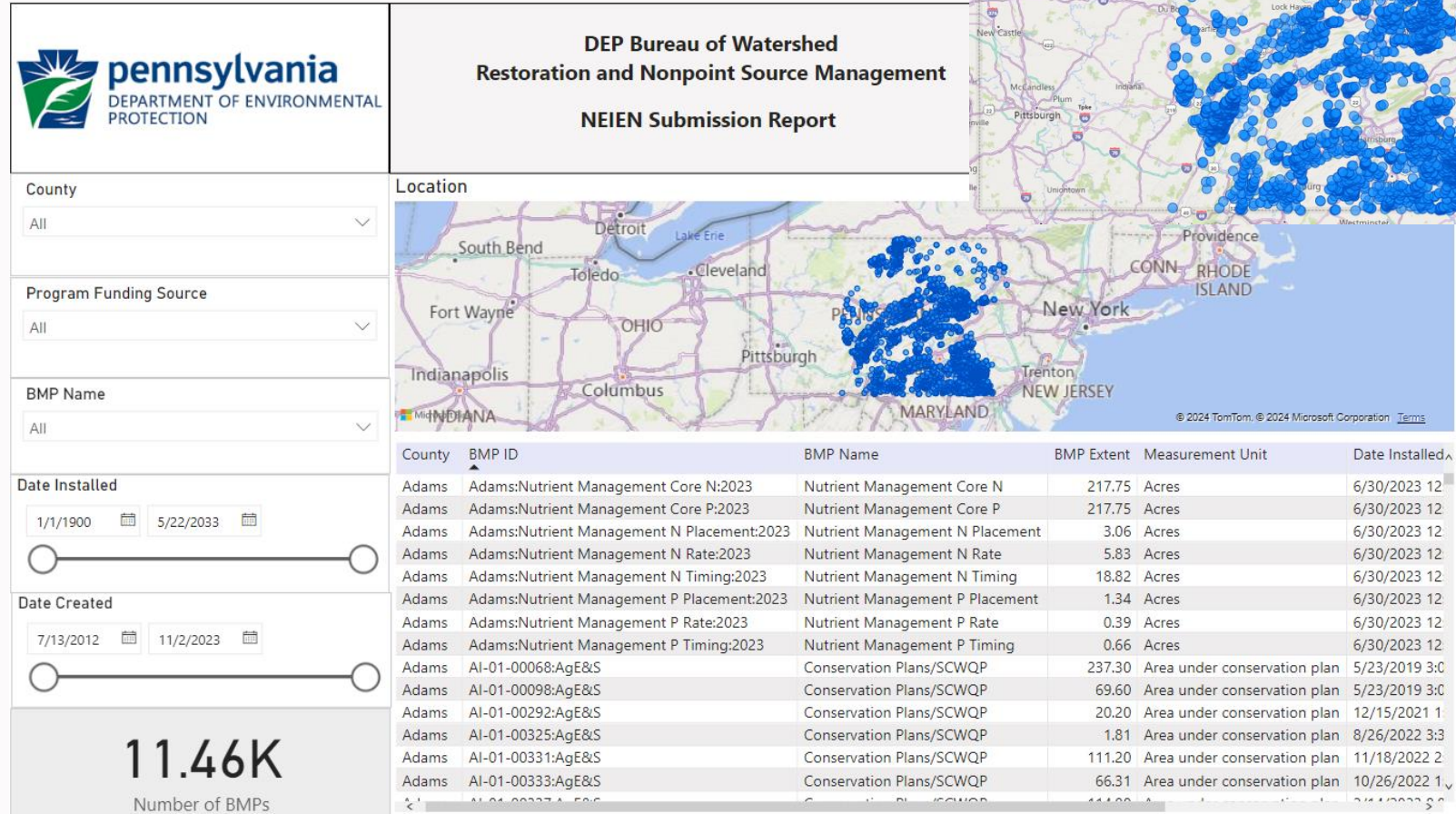




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NEIEN Submission Report

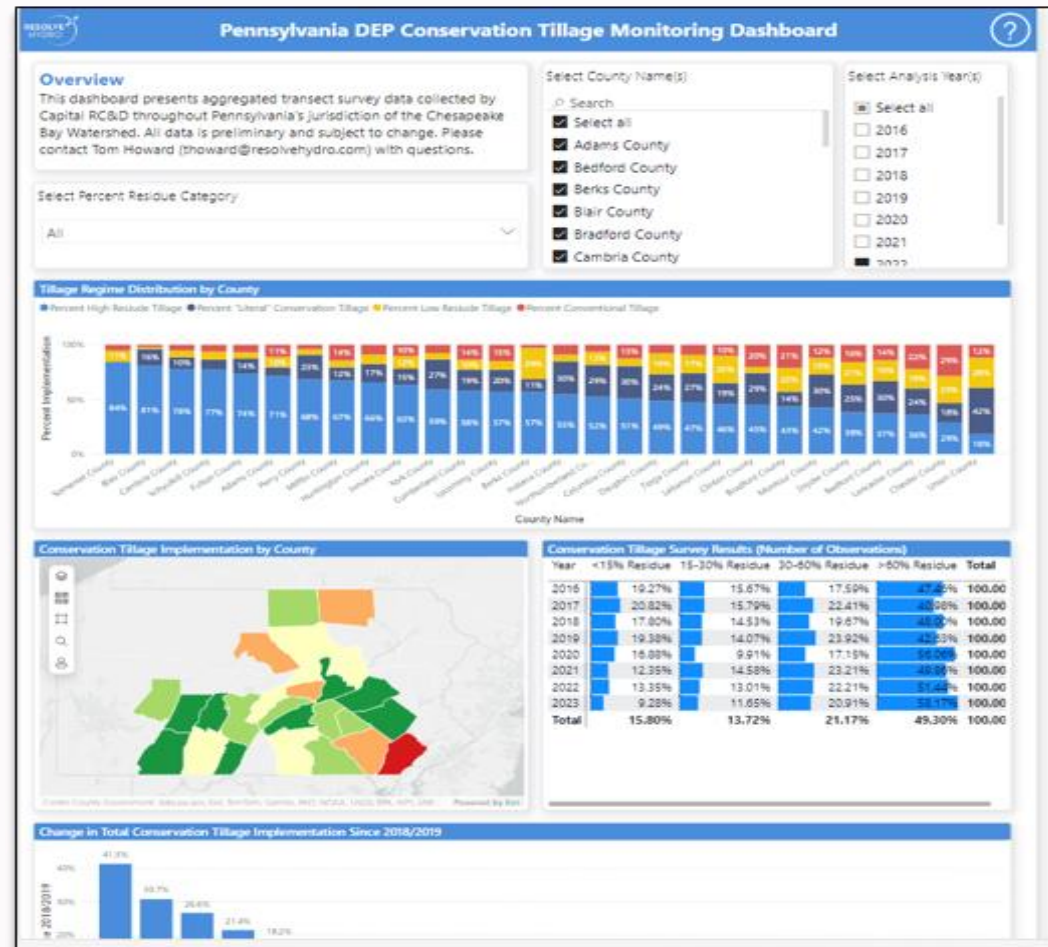
PowerBI



PowerBI Dashboard

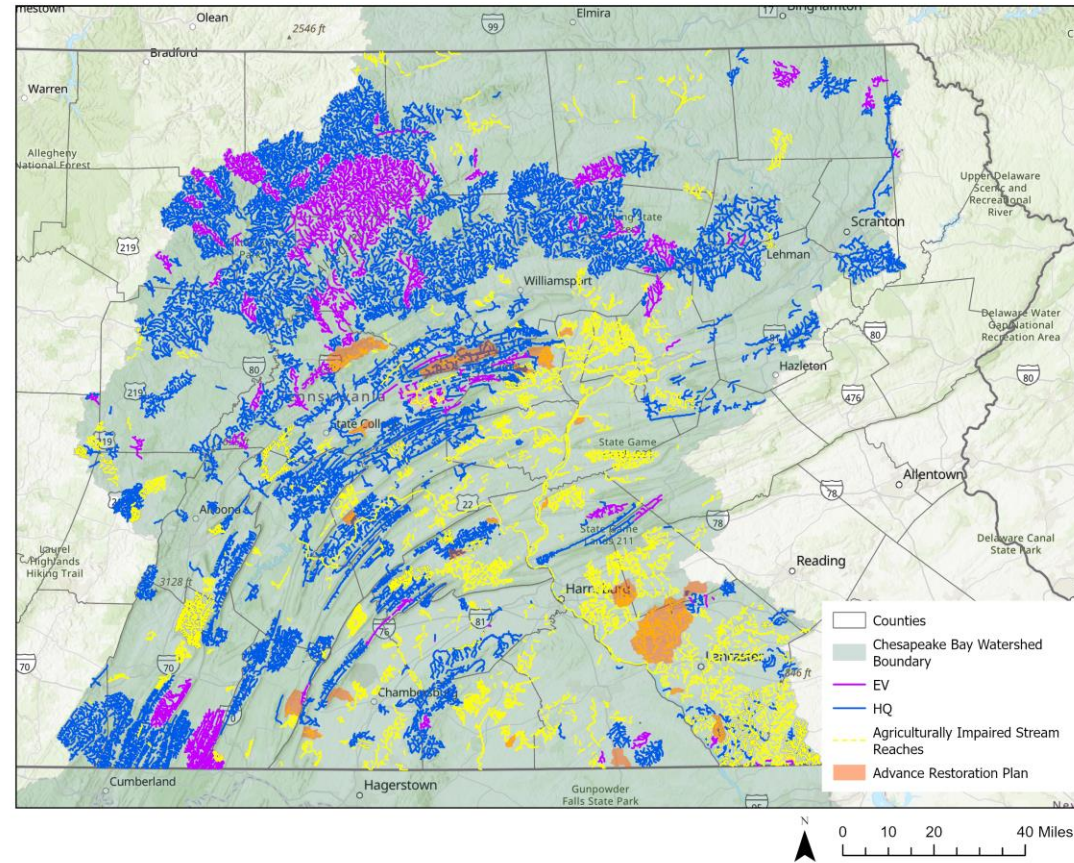
What can we learn from the data?

- What is the opportunity space for conservation tillage practices?
- What counties/crops are most likely to use conservation tillage BMPs?
- Once a farmer implements conservation tillage, how likely are they to revert to conventional practices?





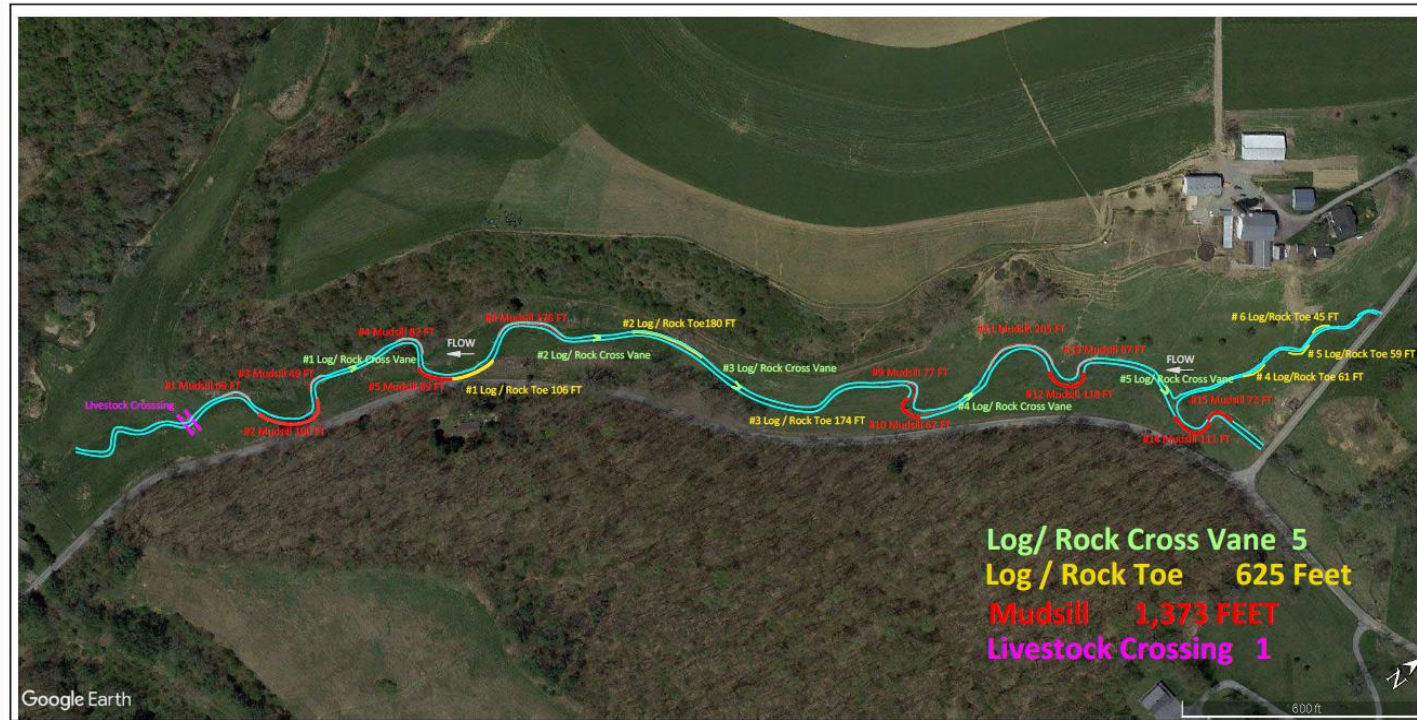
Advance Restoration Plan Locations (2024)





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Example BMP Design



Fishing Creek Tributary At Bieler Farms
Drumore Township, Lancaster County, PA



Drawn by: G. Port and K. Miller



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Implement and Document BMPs





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Healthy Waters Healthy Communities Report



AGRICULTURE SECTOR

Best Management Practices Installed on Spangler Farm - Union County

In 2023, the Union County Conservation District used CAP implementation funds to help the Spangler family install a new driveway, build a new driveway, and decommission an old driveway on the Spangler Farm. The result of these practices is an annual reduction of 1,276 pounds of nitrogen or other nutrients in Union County and an improvement in water quality for the farm and its livestock.

Cover Crop Incentive Programs - Carbon County

In 2023, Carbon County Conservation District launched a cover crop program that was extremely popular with the local farming community. Seven farmers planted cover crops on 1,140 acres. This new program was made possible through the flexibility of the CAP implementation funds program that provided funds for farmers who are supporting clean water efforts and improving soil health through planting cover crops.

Spangler Farm Manure Storage - Cumberland County

The Agricultural Conservation Easement Program (ACEP) and the Cumberland County Conservation District came together to help Spangler family build a much-needed manure storage structure on the Spangler Farm. Through 40 percent cost share funds for the ACEP and 60 percent cost share funds for the Spangler family, the Spangler family was able to build a new manure storage structure. This result is a project that helps the farm and helps protect the water in a small stream feeding the Chesapeake Bay. This project will reduce nitrogen loading to the stream by 874 pounds each year.

Partners sharing projects brings great PA progress!

2023 | A YEAR OF CLEAN WATER PARTNERS. PROJECTS AND PROGRESS

The year has been a busy one for the Pennsylvania Department of Environmental Protection (PA DEP) and its partners. Over the last four years, more than 300 miles of streams have been restored in the Chesapeake Bay watershed - that's equal to the distance from Harrisburg, PA to the Maryland Chesapeake Bay Bridge!

Numbers Tell the Story

With the inclusion of climate change, Pennsylvania's 2023 Planning Program for the Chesapeake Bay (PA DEP's 2023 Planning Program) is the first to include climate change. It includes 10,000 acres of land, 10,000 acres of water, and 10,000 acres of land and water. It includes 10,000 acres of land, 10,000 acres of water, and 10,000 acres of land and water. It includes 10,000 acres of land, 10,000 acres of water, and 10,000 acres of land and water.

Pennsylvania Healthy Waters Healthy Communities Annual Reports

Supporting CAPs and Local Action

- Updated [Bureau of Watershed Restoration and Nonpoint Source Management website](#)
- [Healthy Watersheds, Healthy Communities](#) story map: 3,000+ views
- [Clean Water Academy](#): Web-based training modules
- [Tracking Pennsylvania's Progress](#): Adding public transparency for milestone commitments and progress
- [Healthy Waters](#) monthly e-newsletter: Increasing subscribers
- CAP Action Items for the Week: weekly email sharing relevant updates, tools, and training opportunities
- Materials and training to support county teams' local outreach needs


[DEP](#) > [Businesses](#) > [Water](#) > [Watershed Restoration and Nonpoint Source Management](#) > [Chesapeake Bay Watershed Restoration Division](#) > [PA's Phase 3 WIP](#) > Newsletter



HEALTHY WATERS

Pennsylvania. Partnership. Progress

The Department of Environmental Protection Bureau of Watershed Restoration and Nonpoint Source Management, Chesapeake Bay Watershed Restoration Division produces a monthly newsletter to showcase progress and updates on the statewide Phase 3 Watershed Implementation Plan and our local partners' Countywide Action Plans. Our newsletter will highlight activities from the Division and our partnering counties, agencies, and action team leaders; reporting and data tools; funding and grant opportunities; and major announcements.

[Sign up for the newsletter](#) 



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Get In Touch

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The Department of Environmental Protection's mission is to protect Pennsylvania's air, land and water resources and to provide for the health and safety of its residents and visitors, consistent with the rights and duties established under the Environmental Rights Amendment (Article 1, Section 27 of the Pennsylvania Constitution).