

## Chesapeake Bay Small Watershed Grants Program in Pennsylvania

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## FUNDING PARTNERS

- U.S. Environmental
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- U.S. Department of Agriculture, Natural Resources Conservation Service and U.S. Forest Service
- U.S. Department of the Interior, U.S. Fish and Wildlife Service
- Altria

To learn more, visit: https://bit.ly/chesapeakebizplan

## **ABOUT NFWF**

Chartered by Congress in 1984, the National Fish and Wildlife Foundation (NFWF) protects and restores the nation's fish, wildlife, plants and habitats. Working with federal, corporate and individual partners, NFWF has funded more than 5,000 organizations and generated a total conservation impact of \$6.8 billion.

Learn more at www.nfwf.org

#### NATIONAL HEADQUARTERS

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Susquehanna River | Credit: Parsons

## **OVERVIEW**

The Chesapeake Bay Stewardship Fund (CBSF) is dedicated to protecting the bay by helping local communities clean up and restore their polluted rivers and streams. A major emphasis of CBSF grantmaking focuses on supporting on-the-ground efforts in Pennsylvania's Susquehanna River basin to implement agricultural best management practices, restore stream and riparian habitats, and advance the use of green infrastructure to control stormwater and local flooding.

In 2021 the Stewardship Fund awarded more than \$11 million to 31 projects working to support Pennsylvania's clean water and conservation goals. These grants span multiple programs – including the Innovative Nutrient and Sediment Reduction grants, Small Watershed Grants, and the new Most Effective Basins Grants program – each with unique roles in advancing specific bay restoration strategies. Reflecting local interest and investment in these efforts, these 31 grants leveraged over \$19 million in matching funds and in-kind services from grantees and partners to generate a total impact of more than \$30 million.



**MOST EFFECTIVE BASIN GRANTS** 

New for 2021, the Pennsylvania Most Effective Basins Grants (MEB) program supports projects that accelerate implementation of cost-effective agricultural best management practices in selected basins of the Chesapeake Bay watershed of Pennsylvania. The intent of the MEB program is to assist the Commonwealth of Pennsylvania in achieving its 2025 water quality goals for the agricultural sector under the Chesapeake Bay Total Maximum Daily Load (TMDL) and Pennsylvania's Phase III Watershed Implementation Plan (WIP). A total of 10 project were awarded under the 2021 MEB program, awarding nearly \$2.5 million and leveraging an additional \$1.5 million in matching funds.

## Boosting Implementation of Agricultural Best Management Practices (PA)

Grantee: Alliance for the Chesapeake Bay
Grant Amount: \$915,000
Matching Funds: \$160,125
Total Project Amount:\$1,075,125
Implement best management practices on farms in
Pennsylvania's Lancaster, Union, and Chester counties. Project
will leverage existing partnerships and corporate resources
to provide cost-share programs and direct implementation
support for targeted water quality and conservation
improvements on participating farms.

## Reducing Nutrient Loss from Manure in Fishing Creek (PA)

Grantee: Columbia County Conservation District
Grant Amount: \$216,203
Matching Funds: \$3,653
Total Project Amount:\$219,856
Install conservation practices on a farm in Benton Township.
Project will prevent the leaching of manure nutrients and
sediment into local waterways through the construction of a
heavy use area, manure storage, and other best management
practices.

Pennsylvania agriculture | Credit: Parsons

## Developing Agricultural Plans and Cover Cropping Programs in the Middle Creek Watershed (PA)

## **Reducing Nutrient Loss from Manure in Lancaster through Expanded Adoption of Manure Injection (PA)** Grantee: Sustainable Chesapeake

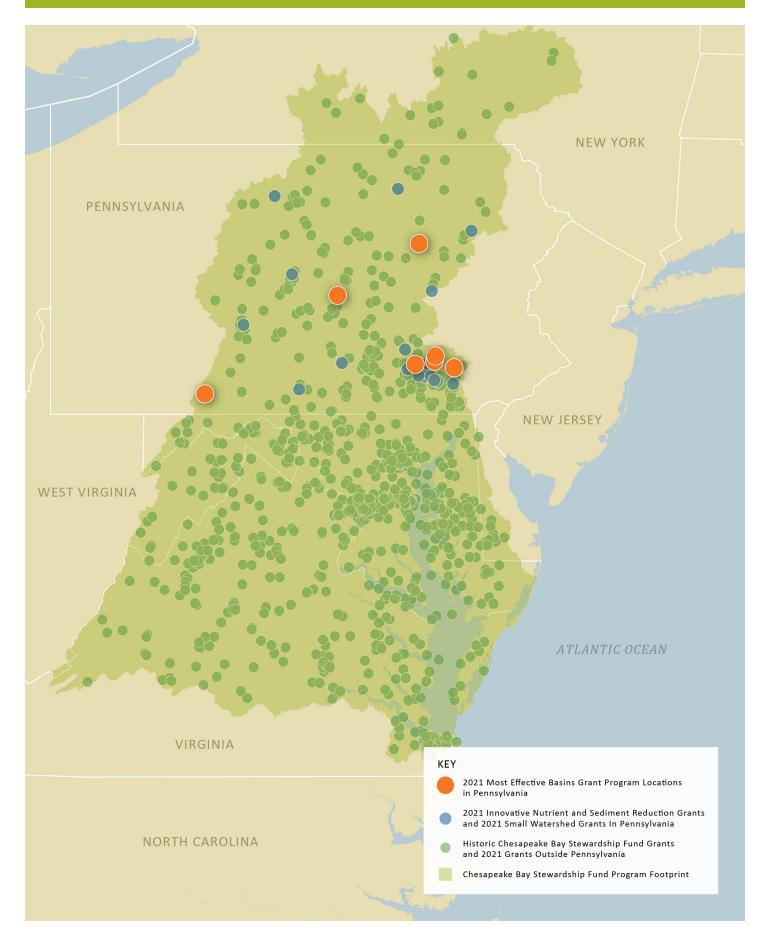
Grant Amount: \$249,174
Matching Funds: \$150,000
Total Project Amount:\$399,174
Work with partners to expand the adoption of low-
disturbance manure injection on a range of farms. Project will
improve water quality by reducing nitrogen and phosphorus

Improve water quality by reducing nitrogen and phosphorus loss from land-applied manure in most-effective basins in Lancaster County, Pennsylvania.

# Reducing Nutrient Loss Through Manure Management in Snyder County (PA)

Grantee: Snyder County Conservation District
Grant Amount: \$250,000
Matching Funds:
Total Project Amount:      \$1,014,840
Decrease nitrogen leaching and runoff by installing
best management practices on a farm in Snyder County,
Pennsylvania. Project will implement changes to allow the
farmer to store manure longer, apply it at correct times, and
reduce runoff.

## 2021 GRANT SLATE



(continued)

## **2021 GRANT SLATE**

## Addressing Polluted Runoff through Agricultural Best Management Practices in Clay Township (PA)

Grantee: TeamAg

Grant Amount: \$249,700
Matching Funds: \$135,553
Total Project Amount:      \$385,253
Install barnyard runoff control best management practices
to control stormwater and treat polluted runoff on a farm in
Lititz, Pennsylvania. Project will reduce polluted runoff from
dairy and feed bunks that discharge into Middle Creek.

## Collaborative Water Quality Improvement in the Upper Conestoga River Watershed (PA)

Grantee: Lancaster Farmland Trust

Grant Amount: \$241,754 Matching Funds: \$150,000 Total Project Amount: \$391,754 Implement agricultural best management practices including cattle walkways, stabilized access roads, and a roofed manure stacking structure on a farm in East Earl, Pennsylvania. Project will reduce nitrogen, phosphorous, and sediment pollution flowing to the Chesapeake Bay.

## Implementing Best Management Practices to Address Runoff at Dividing Ridge Farm (PA)

Grantee: Somerset Conservation District

Grant Amount:.....\$47,720 Plant cover crops to reduce soil loss and utilize the nutrients from applied manure on a farm in Somerset County. Project will plant cover crops on land where corn silage has been harvested, preventing manure nutrients from entering the Chesapeake Bay Watershed.

## Implementing Whole Farm Conservation Practices in the Chiques Creek Watershed (PA)

## Developing Conservation Plans to Address Water Quality on Farms in Clay Township (PA)

Grantee: TeamAg

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Grant Amount:\$48,400
Matching Funds: \$105,750
Total Project Amount:\$154,150
Develop manure management and conservation plans for
farms in Clay Township, in Lancaster County, Pennsylvania.
Project will identify water quality concerns on 12 farms and
begin the process of addressing these concerns.



Tree planting | Credit: Parsons

# INNOVATIVE NUTRIENT AND SEDIMENT REDUCTION GRANTS

The Innovative Nutrient and Sediment Reduction Grants (INSR) program supports projects that accelerate the rate and scale of water quality improvements specifically through the coordinated and collaborative efforts of sustainable, regionalscale partnerships in implementing proven water quality improvement practices in a more cost-effective manner. A total of six projects executing work in Pennsylvania were awarded through the 2021 INSR program totaling nearly \$5 million and leveraging an additional \$12 million in matching funds.

## Lancaster Clean Water Partners Collaborating and Scaling Up Stormwater Management (PA)

## Accelerating Green Infrastructure Implementation in Wyoming Valley (PA)

Grantee: Wyoming Valley Sanitary Authority

## Creating Healthy Watersheds through Partnerships and Implementation in Flourishing Landscapes (PA)

Grantee: Pennsylvania Department of Conservation and Natural Resources

Grant Amount:\$1,000,000
Matching Funds:\$1,000,000
Total Project Amount:\$2,000,000
Accelerate implementation pace of watershed forestry best
management practices like riparian forest buffer, urban forest
planting, and conservation landscaping implementation
through partner-funded outreach, large contract plantings,
investments in professional development, and creation
of experiential learning labs. Project will galvanize



Soil health practices | Credit: Parsons

Pennsylvania's existing riparian forest buffer and lawn conversion partnerships to elevate their ability to outreach and implement.

## Creating a Regenerative Organic Dairy Industry (PA)

## **Connecting Urban and Agricultural Sectors for Accelerated Water Quality Improvements (PA)** Grantee: Blair County Conservation District

## Clean Water Cumberland Scaling Up Implementation in Cumberland County (PA)

#### **SMALL WATERSHED GRANTS**

The Small Watershed Grants (SWG) program supports projects within the Chesapeake Bay watershed that promote community-based efforts to protect and restore the diverse natural resources of the Chesapeake Bay and its tributary rivers and streams and support local government implementation efforts.

NFWF awards funding through two distinct funding opportunities: SWG Implementation grants are awarded for projects that result in direct, on-the-ground actions to protect and restore water quality, species, and habitats in the Bay watershed. SWG Planning and Technical Assistance grants award funding for projects that enhance local capacity to more efficiently and effectively implement future on-theground actions through assessment, planning, design, and other technical assistance-oriented activities. A total of 15 projects working in Pennsylvania received funding through the 2021 SWG program, totaling nearly \$4 million and leveraging more than \$5.5 million in local matching funds.

## Restoring Priority Stream in Manheim Township (PA)

## Stream Stabilization and Riparian Forest Buffer Installation in Kilinger Creek (PA)

forested habitat for wildlife species. Project will stabilize and restore 1,600 feet of Killinger Creek, plant a 35 foot riparian forest buffer on both streambanks, and educate the community on why these projects are important for clean water.

# Watershed Approach to Stream Corridor Restoration in the Headwaters of the Chesapeake Bay (NY, PA)

Grantee: Tioga County Soil and Water Conservation District of New York

Grant Amount: \$500,000
Matching Funds: \$179,000
Total Project Amount: \$679,000
Assess and implement improvements to address water
quality, stormwater retention, habitat restoration, and
watershed resiliency on a small subwatershed scale. Project
will provide citizen stewardship opportunities and result in
57,439.15 pounds of sediment, 28.21 pounds phosphorus,
and 177.26 pounds of nitrogen being avoided annually within
the Upper Susquehanna and Chemung River Watersheds.

## Restoring Floodplain to Improve Water Quality in Little Conestoga Creek (PA)

Grantee: The Little Conestoga Creek Foundation
Grant Amount: \$440,000
Matching Funds:
Total Project Amount:      \$1,320,000
Implement best management practices to restore floodplain
and address nitrogen, phosphorous, and sediment in Little
Conestoga Creek in Pennsylvania. Project will restore
floodplain, reduce flooding, provide habitat creation, and
restore biodiversity.



Riparian buffer | Credit: Parsons



Susquehanna River | Credit: Parsons

# Restoring Floodplain by Addressing Legacy Sediment in Pequea Creek (PA)

Grantee: Salisbury Township

## Leveraging New Corporate Clean Water Partnerships in Lancaster and Lebanon Counties (PA)

Grantee: Alliance for the Chesapeake Bay

## Bradford County Accelerated Watershed Implementation Plan Development - II (PA)

Grantee: Bradford County Conservation District
Grant Amount:\$49,995
Matching Funds:\$41,444
Total Project Amount:\$91,439
Accelerate planning of Bradford County's Watershed
Implementation Plan in the areas of stream rehabilitation,

agricultural management, stream crossing replacement, and forestry. Project will address water quality impacts in the County by creating designs for stream rehabilitation and crossings, comprehensive nutrient management, riparian buffer installation, and reforestation.

## Designing Floodplain Restoration in Santo Domingo Creek (PA)

## Assessing and Prioritizing Restoration Actions in the First Fork Sinnemahoning Creek Watershed (PA)

## Designing a Stormwater Treatment Plan in Lititz Borough (PA)

Grantee: Lititz Borough

Grant Amount:.....\$20,000 Matching Funds: .....\$5,000 Total Project Amount:.....\$25,000 Design a stormwater treatment plan for the Lititiz Borough Regional Stormwater Facility to assist in managing existing stormwater runoff. Project will determine the best method for achieving large stormwater treatment, volume control, and water quality benefits in the project area and in the catchment.

## Accelerating Best Management Practice Implementation in Lancaster and Chester Counties (PA)

Grantee: Stroud Water Research Center

## Little Mahanoy Creek Headwaters Restoration Plan Development (PA)

Grantee: Schuylkill Conservation District

Grant Amount:.....\$50,000 Matching Funds: .....\$10,000 Total Project: .....\$60,000 Develop a detailed watershed restoration plan for the headwaters of Little Mahanoy Creek Watershed. Project will provide a blueprint for managing stormwater in the watershed, restoring habitat in the headwaters, and improving water quality to protect the unimpaired downstream sections where trout are reproducing naturally.

# Expanding Nutrient Management Across the Headwaters of the Chesapeake Bay (NY, PA)

Grantee: Tioga County Soil and Water Conservation District of New York

## Assessing Opportunities for Mill Creek Riparian, Floodplain, and Stream Restoration (PA)

Grantee: American Rivers

# Developing a Watershed Action Plan for Franklin County (PA)

Grantee: Franklin County Conservation District
Grant Amount:\$50,000
Matching Funds:\$55,500
Total Project Amount:      \$105,500
Develop a Priority Watershed Action Plan for Franklin
County to determine sources of nutrients and sediment
in seven subwatersheds in Franklin County, Pennsylvania.
Project will identify best management practices for
implementation to assist with the pollution reduction
targets and water quality improvement goals identified in
Franklin's Countywide Action Plan.



Conservation landscaping | Credit: Parsons