



Chesapeake Bay Small Watershed Grants Program

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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

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Farmland and riparian habitat in Pennsylvania

OVERVIEW

The National Fish and Wildlife Foundation (NFWF), in partnership with the U.S. Environmental Protection Agency and the Chesapeake Bay Program, recently announced the 2021 round of funding for the Chesapeake Bay Stewardship Fund's Small Watershed Grants projects. Forty-nine grants totaling \$10.3 million were awarded, leveraging \$12 million in match from the grantees to generate a total conservation impact of more than \$22.3 million.

The Chesapeake Bay Stewardship Fund is dedicated to protecting and restoring the bay by helping local communities clean up and restore their polluted rivers and streams. The fund also advances cost-effective and creative solutions with financial and technical assistance to local communities, farmers, and private landowners. NFWF manages the Stewardship Fund in partnership with government agencies and private corporations and in close coordination with the federal-state Chesapeake Bay Program partnership. Major funding is provided by the U.S. Environmental Protection Agency through the Chesapeake Bay Program Office.

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Oyster beds in the Chesapeake Bay

The Small Watershed Grants program funds 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. This year’s awards address four key categories of strategies for the Chesapeake Bay Watershed: 1) habitat restoration, including oyster reef and stream restoration; 2) habitat management, both agriculture and stormwater best management practices; 3) capacity, outreach, and incentives; and 4) planning, research and monitoring.

HABITAT RESTORATION

The following projects seek to improve the quality of open bay, stream and riparian habitat by restoring aquatic connectivity, restoring or creating wetlands and floodplains, improving in-stream habitat, restoring acre reefs, and improving stream channel configuration. Projects will improve water quality by reducing nutrient and sediment loads in the Chesapeake Bay Watershed and will specifically target priority species such as the river herring, American oyster, black duck and brook trout. In this category, \$4,503,718 in NFWF funds is being awarded, matched with \$3,694,236 in grantee matching contributions for a total on-the-ground impact of \$8,197,954.

Restoring Priority Stream in Manheim Township (PA)

Grantee: Manheim Township
 Grant Amount: \$457,500
 Matching Funds: \$152,500
 Total Project Amount: \$610,000
 Restore and improve the overall stream health and function of

local and regional water bodies in Manheim Township. Project will restore the degraded stream channel along approximately 1,507 linear feet of an unnamed tributary to the Conestoga River, 1,172 linear feet of Landis Run and 1,567 linear feet of Bachman Run; providing pollutant load reductions of approximately 190,560 pounds of sediment, 217 pounds of nitrogen and 100 pounds of phosphorus annually.

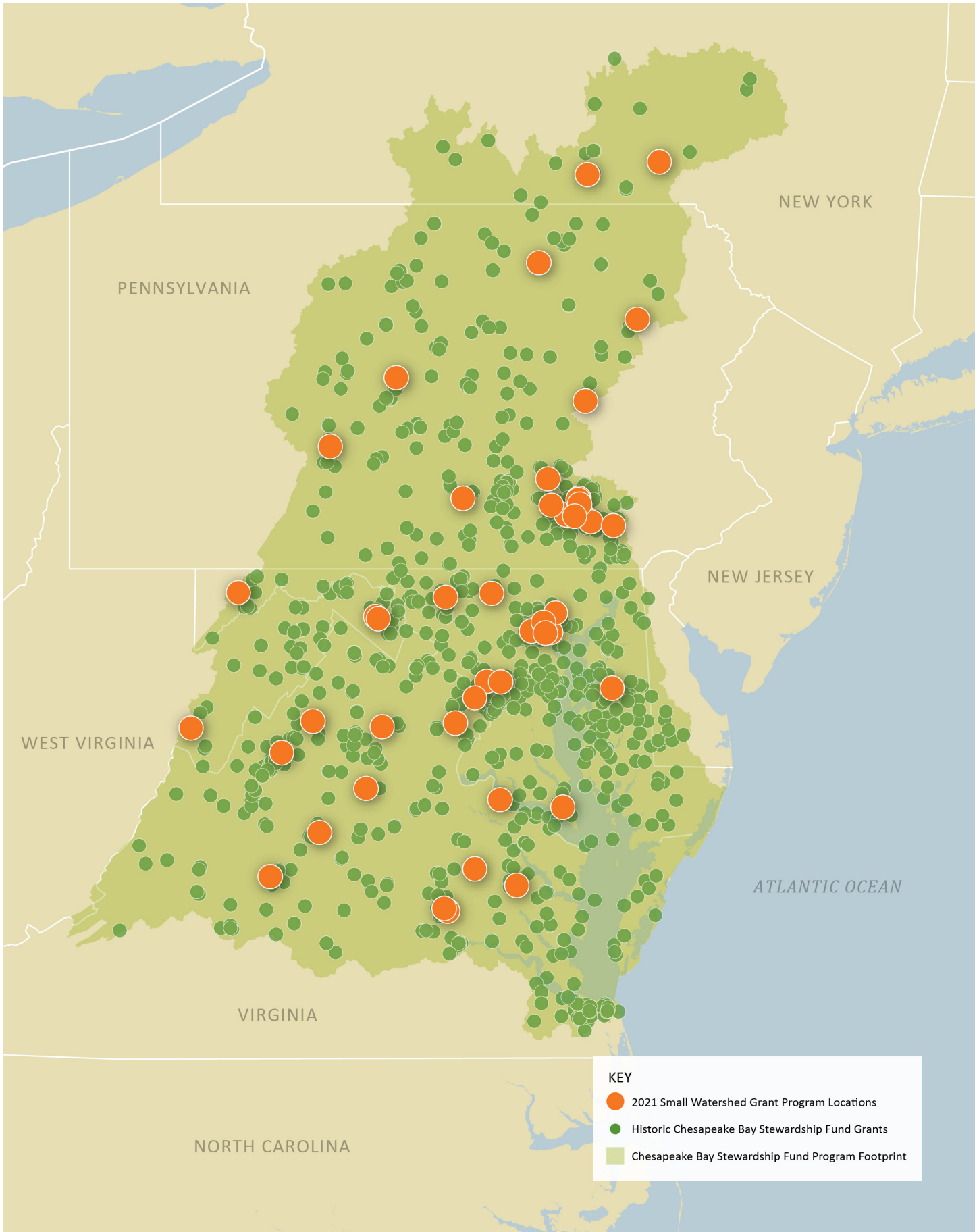
Protecting and Restoring Brook Trout Habitat in the Savage River Watershed (MD)

Grantee: Trout Unlimited
 Grant Amount: \$360,124
 Matching Funds: \$412,497
 Total Project Amount: \$772,621
 Permanently protect a high-quality riparian corridor and restore riparian buffers, in-stream habitat and aquatic organism passage within the Savage River Watershed eastern brook trout stronghold. Project will increase habitat integrity and reduce sediment and nutrient runoff destined for the Chesapeake Bay while improving productivity for local agricultural producers, enhancing a native fishery, and engaging community members and students in a shared vision for watershed health.

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

Grantee: South Londonderry Township
 Grant Amount: \$220,000
 Matching Funds: \$95,000
 Total Project Amount: \$315,000
 Improve water quality and stream health in Killingier Creek by reducing the pollutant loading rates that contribute to existing

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American black ducks

stream impairments and increasing in-stream and 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 stream banks, and educate the community on why these projects are important for clean water.

Installing and Restoring Riparian Buffers in the Upper Rappahannock and Potomac watersheds (VA)

Grantee: The Piedmont Environmental Council
 Grant Amount: \$263,802
 Matching Funds: \$188,136
 Total Project Amount: \$451,938

Restore 80 acres of riparian buffers on private land in the Upper Rappahannock and Upper Potomac watersheds in Virginia. Project will plant and maintain native tree buffers on stream-side properties, expedite implementation of livestock exclusion fencing and other agriculture best-management practices, and assist landowners in completing 10 new conservation easements with protected riparian buffers.

Engaging the Community in Oyster Habitat Restoration in St. Mary's River (MD)

Grantee: St. Mary's River Watershed Association
 Grant Amount: \$125,173
 Matching Funds: \$64,826
 Total Project Amount: \$189,999

Restore vibrant oyster habitat in prioritized shellfish sanctuary areas of St. Mary's River. Project will engage partners and volunteers to make habitat structures, improve bottom substrate, grow spat, plant seed and conduct monitoring within targeted areas of the St. Mary's River Shellfish Sanctuary.

Establishing and Protecting Riparian Forest Buffers in the Eastern Panhandle of West Virginia (WV)

Grantee: The Potomac Conservancy
 Grant Amount: \$357,792
 Matching Funds: \$161,484
 Total Project Amount: \$519,276

Reduce nitrogen, phosphorous, and sediment pollution and restore riparian habitat while addressing clean drinking water goals in the eastern panhandle of West Virginia. Project will accelerate implementation of riparian forest buffers to reduce polluted runoff and improve water quality, conserve existing high-value riparian buffers with perpetual conservation easements, and conduct targeted outreach to enhance the implementation and long-term protection of riparian forest buffers.

Restoring and Reconnecting Brook Trout Strongholds in the South Branch of the Potomac (WV, VA)

Grantee: Trout Unlimited
 Grant Amount: \$492,619
 Matching Funds: \$602,460
 Total Project Amount: \$1,095,079

Mitigate a large barrier to fish migration on the North Fork of the South Branch of the Potomac River, reconnecting and restoring two of the largest brook trout strongholds in the Chesapeake Bay. Project will reconnect 150 miles of headwater sources, improve water quality and habitat through agricultural best-management practices, and help to create a 239-square-mile brook trout stronghold super patch.

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 pounds of sediment, 28 pounds of phosphorus and 177 pounds of nitrogen being avoided annually within the Upper Susquehanna and Chemung River Watersheds.

Establishing Native Grass Buffers and Restoring Wetlands in the Lower Shore (MD)

Grantee: Washington College
 Grant Amount: \$400,000
 Matching Funds: \$509,333
 Total Project Amount: \$909,333

Extend the successful Natural Lands Project to the lower Eastern Shore of Maryland. Project will work with landowners to establish native grass buffers and restore wetlands primarily targeting riparian zones of marginal agricultural land on Maryland's lower Eastern Shore.

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Implementing a Spring Bioreactor and Creating and Enhancing Wetlands (VA, MD)

Grantee: Ridge to Reefs

Grant Amount: \$246,142
 Matching Funds: \$180,000
 Total Project Amount: \$426,142

Construct a denitrifying bioreactor on a spring in Lacey Springs, Virginia, design a second spring bioreactor on a springhead draining into a tributary of Smith Creek, and construct wetlands on a farm in Worton, Maryland. Project will reduce nitrogen and benefit in-stream conditions for brook trout and provide habitat for American black duck.

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

Grantee: The Little Conestoga Creek Foundation

Grant Amount: \$440,000
 Matching Funds: \$880,000
 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.

Replacing an Undersized Culvert to Reopen Brook Trout Habitat in Wylie Brook Watershed (NY)

Grantee: Trout Unlimited

Grant Amount: \$140,566
 Matching Funds: \$70,000
 Total Project Amount: \$210,566

Replace an undersized culvert in the Town of Coventry, New York that is blocking trout passage. Project will open 2.8 miles of high quality habitat, expanding the brook trout stronghold.

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

Grantee: Salisbury Township

Grant Amount: \$500,000
 Matching Funds: \$199,000
 Total Project Amount: \$699,000

Restore floodplain along approximately 1,427 linear feet of an unnamed tributary to Pequea Creek in Salisbury Township, Lancaster, Pennsylvania. Project will provide water quality benefits, flood reduction, native habitat creation and enhancements, and additional ecosystem services to the Pequea Creek Watershed, other downstream waters, and ultimately the Chesapeake Bay.

HABITAT MANAGEMENT

The following projects seek to improve water quality in the Chesapeake Bay Watershed through agriculture best-management practices and green stormwater infrastructure. Project implementation includes cover crops, livestock exclusion fencing, removal of impervious surface, rain gardens, etc. Projects will improve the quality of water entering tributaries and water bodies that feed into the Chesapeake Bay with an emphasis on nitrogen, phosphorus and sediment annual load reductions. Under this strategy, \$3,377,098 in NFWF funds is being awarded, with \$5,366,361 in grantee matching contributions for a total on-the-ground impact of \$8,743,459.

Implementing a Green Infrastructure Master Plan for Greater Grace (MD)

Grantee: Greater Grace World Outreach

Grant Amount: \$200,785
 Matching Funds: \$94,080
 Total Project Amount: \$294,865

Install components of Greater Grace World Outreach's green infrastructure master plan and plant 100 community trees. Project will install two micro-bioretenion areas and one bioretention system as well as remove 7,014 sq. ft. of impervious surface, which will result in the annual treatment of 1.29 acres of impervious surface.

Creating a Green Corridor in the Fulton Business District (VA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000
 Matching Funds: \$225,000
 Total Project Amount: \$725,000

Create an accessible, park-like corridor in the Fulton Hill Business District in Richmond, Virginia. Project will improve water quality in this urban area by implementing green stormwater infrastructure practices to treat and capture stormwater runoff and reduce urban heat island impacts while improving Fulton's climate resiliency and implementing the Launch Fulton Green Jobs Initiative.

Improving Soil Health and Water Quality through Purposeful, Site-Specific Cover Crop Planning and Management (MD)

Grantee: Future Harvest

Grant Amount: \$302,750
 Matching Funds: \$102,237
 Total Project Amount: \$404,987

Demonstrate the agronomic and environmental benefits of purposeful, site specific cover crop planning at the farm scale on 12 collaborating grain farms on Maryland's Eastern Shore with the goal of catalyzing and accelerating adoption of innovative cover cropping strategies across the region. Project will support 12 row crop farmers in implementing site-specific plans for cover crop planting and measuring agronomic and environmental benefits of the practices over time.

Farm Stewardship and Regenerative Agriculture Education in the Upper Potomac Watershed (MD)

Grantee: Chesapeake Bay Foundation

Grant Amount: \$379,430
 Matching Funds: \$272,978
 Total Project Amount: \$652,408

Implement agricultural conservation practices in the Upper Potomac Watershed. Project will provide “whole farm” technical assistance and financial incentives to farmers, engage volunteers in tree plantings and buffer maintenance, and educate consumers about local regenerative agriculture to inform their purchasing decisions.

Cultivating Stronger Partnerships for Clean Water in the Gunpowder Watershed (MD)

Grantee: Gunpowder Valley Conservancy

Grant Amount: \$364,586
 Matching Funds: \$854,444
 Total Project Amount: \$1,219,030

Expand restoration project implementation by working with old and new partners and by engaging businesses in implementing rain gardens or micro-bioretenion practices. Project will implement stormwater best management practices, plant native trees and increase community engagement in stormwater restoration in the Gunpowder Watershed.

Restoring Model Watersheds to Improve Urban Water Quality in Baltimore County (MD)

Grantee: Blue Water Baltimore

Grant Amount: \$268,871
 Matching Funds: \$142,527
 Total Project Amount: \$411,398

Continue watershed restoration implementation that improves urban water quality in Baltimore County on private property. Project will install priority restoration projects that can be used as model projects, reduce watershed pollution to help Baltimore County meet its watershed improvement plan goals, motivate homeowners to change behavior and plant a tree in their yard, and engage residents in pollution detection and stream learning opportunities.

Promoting Watershed Stewardship Through Spanish-Language Stormwater Education (MD)

Grantee: Defensores de la Cuenca

Grant Amount: \$167,807
 Matching Funds: \$59,160
 Total Project Amount: \$226,967

Create “La Academia de Defensores de la Cuenca” based on existing Watershed Stewards Academy models. Project will pair workshops with hands-on experiences to train primarily Spanish-speaking participants on watershed issues, culminating in the completion of a stormwater project by each participant.



Dairy cow

Engaging the Community to Increase Urban Tree Canopy Coverage in Maryland Watersheds (MD)

Grantee: Shorerivers

Grant Amount: \$53,609
 Matching Funds: \$22,280
 Total Project Amount: \$75,889

Implement volunteer-identified and initiated tree-planting projects in the communities of the Sassafras, Chester, Miles-Wye and Choptank River Watersheds. Project will partner with an existing Tree Stewards program to plant trees, train volunteers from partnering organizations and committees, conduct outreach to motivate others to adopt beneficial practices, make gains in nutrient pollution mitigation and increase shade on impervious streets and public walkways.

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

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000
 Matching Funds: \$2,055,000
 Total Project Amount: \$2,555,000

Engage corporate partners to install agricultural best management practices on farms within Lancaster and Lebanon Counties, Pennsylvania. Project will support dairy farmers in reducing nutrient and sediment pollution from their work.

Maintaining Best Management Practices in the Anacostia Watershed (MD, DC)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000
 Matching Funds: \$422,026
 Total Project Amount: \$922,026

Promote long-term best management practice maintenance and water quality improvement through a virtual maintenance resource center, inspections, cost-share maintenance services, and a neighborhood volunteer program. Project will increase the functionality of at least 300 installed best management practices and document improvement in the abilities of 200 property owners to maintain their practices over time.

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Creating a Tree Nursery to Increase Urban Canopy Coverage in the Broadway East Neighborhood (MD)

Grantee: The Sixth Branch

Grant Amount:\$59,374

Matching Funds:\$1,090,000

Total Project Amount:\$1,149,374

Build "One Green Acre," a tree nursery and community hub in the Broadway East neighborhood, which will be the capstone to the Montford Avenue Green Corridor project. Project will create a unique tree farm, nursery, community hub and center for workforce development that will return native-tree production to Baltimore City.

Activating Restoration in Three Underrepresented Communities in the Choptank Watershed (MD)

Grantee: Shorerivers

Grant Amount:\$79,886

Matching Funds:\$26,629

Total Project Amount:\$106,515

Engage three underrepresented communities from across Maryland's Choptank watershed in implementing restoration projects prioritized by each community that will improve water quality, address resource concerns such as stormwater flooding, and enhance private lands and shared spaces. Project will build on existing engagement to activate a diverse community of stewards through a power- and resource-sharing implementation model.

CAPACITY, OUTREACH AND INCENTIVES

The following projects seek to scale up restoration outcomes through enhanced partnership and coordination across organizations at broader regional and landscape scales. Projects provide technical assistance necessary to achieve NFWF's habitat restoration, conservation and management goals through field positions, development of targeted outreach strategies such as community-based social marketing, and enhanced coordination and partnership among technical assistance providers to improve efficiency and reduce administrative bottlenecks. The projects under this strategy represent a total award amount of \$550,000, which will be further leveraged by \$813,328 in grantee matching contributions for a total impact of \$1,363,328.

Providing Cost-Share Funding to Implement Chesapeake Bay Water Quality Improvements (VA)

Grantee: Virginia Association of Soil and Water Conservation Districts

Grant Amount:\$500,000

Matching Funds:\$743,328

Total Project Amount:\$1,243,328

Guide individual stormwater best management practice implementation by providing cost-share funds in targeted sub-watersheds of Virginia. Project will review and vet applications to maximize impact of funds.

Accelerating Agricultural Conservation in Virginia through Pay-for-Performance Procurement Systems (VA)

Grantee: Conservation Innovation Fund

Grant Amount:\$50,000

Matching Funds:\$70,000

Total Project Amount:\$120,000

Develop a pay-for-performance, outcomes-based approach to agricultural conservation in the Commonwealth of Virginia. The project will focus on the Shenandoah Valley and position the state to accelerate and expand pay-for-performance approaches to agricultural conservation in order to address the immediate objectives of the Commonwealth under its Chesapeake Bay Watershed Implementation Plan.

PLANNING, RESEARCH AND MONITORING

The projects under this strategy seek to enhance local capacity to more efficiently and effectively implement future on-the-ground actions through assessment, planning, design, and other technical assistance-oriented activities. Project activities include watershed and habitat assessments, watershed implementation planning, and other planning and prioritization efforts to maximize conservation impact, such as farm-level conservation and stormwater management plans, culvert and barrier assessments in priority rivers for river herring, and wetlands restoration and protection assessments. Under this strategy, \$1,895,089 in NFWF funds is being awarded, with \$2,142,874 in grantee matching contributions for a total impact of \$4,037,963.

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)

Grantee: Lititz Run Watershed Alliance

Grant Amount:\$50,000

Matching Funds:\$5,000

Total Project Amount:\$55,000

Conduct site assessments and design for a floodplain restoration project along 2,500 feet of the Santo Domingo Creek within the Lititz Run priority subwatershed in Lancaster, Pennsylvania. Project will include a geomorphic site assessment, detailed topographic survey, and evaluation of bank erosion rates, culminating in a design including a report and detailed design drawings.

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Assessing and Prioritizing Restoration Opportunities in Little Pipe Creek (MD)

Grantee: Carroll County Government, Bureau of Resource Management

Grant Amount:\$49,998

Matching Funds:\$20,000

Total Project Amount:\$69,998

Develop a comprehensive watershed assessment and prioritization process evaluating the needs and opportunities for restoration projects to improve the water quality in the Little Pipe Creek sub-watershed in Carroll County. Project will identify and rank high priority areas to be targeted for potential restoration opportunities.

Designing a Training Program to Expand the Community of Green Infrastructure Professionals (MD)

Grantee: Audubon Naturalist Society of the Central Atlantic States

Grant Amount:\$25,011

Matching Funds:\$5,026

Total Project Amount:\$30,037

Design a conservation landscape and rain garden for Audubon Naturalist Society's Woodend Nature Sanctuary in Chevy Chase, Maryland, and create a program to train the owners and employees of small and underrepresented landscape contracting companies in the construction of conservation landscapes and rain gardens. Project will provide a path forward for promoting increased use of green infrastructure to manage stormwater and improve water quality within the Anacostia and Rock Creek watersheds.

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

Grantee: Western Pennsylvania Conservancy

Grant Amount:\$49,559

Matching Funds:\$46,232

Total Project Amount:\$95,790

Complete a comprehensive assessment of the First Fork Sinnemahoning Creek watershed to develop prioritized restoration projects for collaborative implementation. Project will develop a framework to implement best management practices aimed towards reducing nutrient and sediment contributions and improving eastern brook trout habitat.

Developing a Watershed Resources Master Plan for the City of Manassas (VA)

Grantee: City of Manassas, VA

Grant Amount:\$50,000

Matching Funds:\$35,000

Total Project Amount:\$85,000

Complete a Watershed Resources Master Plan to consolidate management approaches and guide implementation of water quality improvement strategies. Project will survey citizens regarding water resources, inform elected officials

and professional staff on strategies to improve water quality, inventory improvement opportunities, and produce a long-term implementation plan to guide future decision-making.

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 Lititz 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.

Developing an Environmental Master Plan for the Forest Park Golf Course (MD)

Grantee: Baltimore Municipal Golf Corp

Grant Amount:\$49,935

Matching Funds:\$6,000

Total Project Amount:\$55,935

Develop an environmental master plan for the Forest Park Golf Course in Baltimore City, Maryland. Project will identify the highest priority stormwater management project to proceed to final design, permitting and plans review in order to produce a shovel-ready set of construction documents for implementation.

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

Grantee: Stroud Water Research Center

Grant Amount:\$499,797

Matching Funds:\$1,622,194

Total Project Amount:\$2,121,991

Develop comprehensive nutrient management plans for farms in Lancaster and Chester Counties. Project will support farmers interested in agricultural best-management practices by removing a barrier to implementation and incentivizing the installation of forest buffers.

Integrating Water Quality Improvement with Hazard Mitigation in West Virginia's Eastern Panhandle (WV)

Grantee: University of Maryland Environmental Finance Center

Grant Amount:\$49,998

Tailor the Environmental Finance Center's blended learning model for improving local water quality to the Eastern Panhandle of West Virginia and integrate it with ongoing hazard mitigation planning. Project will expand the capacity of governments to take action on water quality improvements and hazard mitigation needs in a coordinated way that creates efficiencies and reduces implementation costs.



Farmland in Pennsylvania

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 Partnerships and Building Capacity in the Chemung River Subbasin (NY)

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

Grant Amount:\$50,000

Work with partners to build capacity to accelerate implementation of water improvement projects in the Upper Susquehanna River Watershed. Project will build partnership capacity by supporting partners' work and assisting them with the development a strategic plan that allows them to expand their focus to the protection of the watershed.

Expanding Nutrient Management Across 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: \$220,000

Total Project Amount: \$720,000

Expand Nutrient Management Planning efforts to improve water quality across agricultural and urban landscapes within the Headwaters of the Chesapeake Bay watershed in New York and Pennsylvania. Project will develop agricultural nutrient

management plans to improve nitrogen and phosphorous management on farmland and urban nutrient management plans to minimize adverse environmental effects on high risk and priority urban areas.

Leveraging Urban Forests for Climate, Health, and Tree Equity Scores (MD, VA, DC)

Grantee: American Forests

Grant Amount:\$49,911

Matching Funds:\$50,663

Total Project Amount: \$100,574

Build a deep-dive Tree Equity Score Analyzer (TESA) tool for use across the greater Washington metropolitan region. Project will provide a way to set urban forestry narratives, plan strategies and focus resources on communities of highest need to improve tree canopy where its benefits are most needed.

Planning to Remove the Rapidan Mill Dam (VA)

Grantee: Center for Natural Capital

Grant Amount:\$49,627

Complete planning and assessment work necessary to remove the Rapidan Mill dam in Rapidan, Virginia, which is currently an obstruction to species such as shad, American eel, sea lamprey and blueback herring. Project will address pre-project data collection including fish assemblage studies, engineering bathymetry, sediment analysis, and community concerns in order to support the work needed to remove or greatly modify the dam and promote fish passage.

Synthesizing Data from the Middle York River Watershed for Region-Wide Planning (VA)

Grantee: Upper Mattaponi Indian Tribe

Grant Amount:\$50,000

Explore and prioritize end-user needs in the middle York River Watershed to inform the most relevant development of a regional data synthesis and the creation of an integrated

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watershed-wide report on watershed management. Project will create a comprehensive regional report that can be integrated into a future watershed product, focusing on information such as water quality, flooding, land use, habitat vulnerability, social vulnerability, cultural resources, and community science monitoring.

Living Shoreline Design on Monroe Bay (VA)

Grantee: College of William and Mary, Virginia Institute of Marine Science

Grant Amount:\$39,000

Matching Funds:\$8,675

Total Project Amount:\$47,675

Design a living shoreline for a critical area of erosion along 1,500 feet of shoreline in Monroe Bay in the Town of Colonial Beach, Virginia. Project will create a design to protect infrastructure for the Town including a main road and utilities, provide habitat through marsh restoration, reduce sedimentation by stopping erosion of the upland bank, and reduce nutrient runoff to the Bay by creating a buffer along the shore.

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

Grantee: American Rivers

Grant Amount:\$49,955

Identify viable opportunities for riparian and floodplain restoration and dam removal in Mill Creek in Lancaster, Pennsylvania. Project will look at the causes of impairment and sources of sedimentation to identify how dam removal and floodplain restoration work could align with current stormwater management practices in order to holistically restore watersheds and reduce sediment pollution to the Chesapeake Bay and its tributary rivers and streams.

Designing Rivanna River Restoration in Riverview Park (VA)

Grantee: Rivanna Conservation Alliance

Grant Amount:\$50,000

Matching Funds:\$8,140

Total Project Amount:\$58,140

Conduct engineering design and outreach for stream, outfall, and riparian buffer restoration within Riverview Park in Charlottesville, Virginia. Project will accelerate on-the-ground restoration to improve the health and function of the urban corridor of the Rivanna River through capacity building, public engagement, and engineering design.

Designing Green Stormwater Infrastructure in Richmond Hill (VA)

Grantee: Richmond Hill

Grant Amount:\$38,803

Develop a site assessment and concept plan for green stormwater infrastructure improvements to be developed for Richmond Hill and the City of Richmond's downslope Taylor's Hill Park. Project will engage a workforce development program to design and develop a plan to guide implementation



Tidal flat in the Chesapeake Bay

of future stormwater improvements at Richmond Hill aimed at increasing onsite filtration and diminishing the impact of stormwater in the area.

Developing a Green Infrastructure Master Plan for the Greene County Visitor Center (VA)

Grantee: Greene County

Grant Amount:\$23,500

Matching Funds:\$4,000

Total Project Amount:\$27,500

Develop a green infrastructure master plan to address water quality concerns at the Green County visitor center in Ruckersville, Virginia. Project will lay the groundwork for addressing impervious surfaces at the Center, improving water quality in the upper Rapidan River, and providing a high-quality stormwater demonstration site.

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.