# **ONFWF** Chesapeake Bay Stewardship Fund

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#### **FUNDING PARTNERS**

- U.S. Environmental Protection Agency
- 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
- Chesapeake Bay Program

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 \$6.1 billion.

Learn more at www.nfwf.org

#### NATIONAL HEADQUARTERS

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Canvasbacks over the Chesapeake Bay

#### **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 2020 round of funding for Chesapeake Bay Stewardship Fund projects. Fifty-six restoration and water quality improvement grants totaling \$18.06 million were awarded, leveraging \$18.9 million in match from the grantees to generate a total conservation impact of \$36.97 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.

Since 1999, the Stewardship Fund has worked with the public and private sectors to deliver on-the-ground conservation successes benefiting the communities, farms, habitats, and wildlife of the Chesapeake Bay region. NFWF administers the fund's two competitive grant programs, the Innovative Nutrient and Sediment Reduction Grant Program and the Small Watershed Grants Program. NFWF also makes targeted investments that support networking and information-sharing among restoration partners on emerging technologies, successful restoration approaches, and new partnership opportunities. These programs directly engage agricultural producers, homeowners, churches, businesses and others in on-the-ground restoration actions that improve the quality of life in communities throughout the watershed, while ultimately improving the health of the Chesapeake Bay.

### INNOVATIVE NUTRIENT AND SEDIMENT REDUCTION GRANTS

#### Accelerating Riparian Forest Buffer Implementation in Priority Pennsylvania Counties

Grantee: Chesapeake Bay Foundation

Grant Amount: \$975,926 Matching Funds: \$977,882 Total Project: \$977,882 Total Project: \$1,953,809 Build relationships between private and public partners of conservation districts in Pennsylvania's Final Phase 3 Watershed Implementation Plan to accelerate implementation, maintenance resources, and innovative financial incentives of riparian forested buffers in Pennsylvania. Project will provide technical assistance to local contractors and implement 360 acres of buffers, resulting in an annual load reduction of 42,071 pounds nitrogen, 635 pounds phosphorus, and 1,656,578 pounds of sediment.

#### Planting the Trees for the Future Initiative (MD)

Grantee: Howard County, Maryland

Grant Amount:
Matching Funds:\$1,315,670
Total Project: \$2,314,872
Expand local collaborations on environmental restoration, the
rate and scale of reforestation and other natural filters, strategic
land conservation, and environmental job opportunities in
Central Maryland. Project will triple the average annual number
of trees planted across the pilot area by the end of the three-
year period, with a target rate of 100,000 trees per year across
the Greater Baltimore Wilderness Coalition territory including
Howard County, Baltimore County, and Baltimore City.

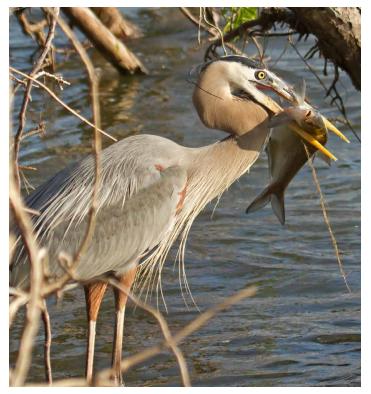
### Accelerating Sediment Reductions Through Collaborative Technical Assistance in Virginia Headwaters

Grantee: Trout Unlimited

# Strengthening the Conservation Community Foundation in the Upper Susquehanna Watershed (NY, PA)

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

Grant Amount:
Matching Funds:
Total Project:
Focus on providing training to new and existing staff to further
provide a framework for the Upper Susquehanna Coalition to
evaluate available programs for future sustainability. Project
will implement 114 acres of riparian buffer, 400 acres of



A great blue heron eats a shad in the James River, Virginia.

prescribed grazing, 3,800 acres of stream corridor restoration and 39 acres of wetland restoration that is estimated to generate nutrient reductions of 4,155 pounds of nitrogen, 689 pounds of phosphorus and 456,130 pounds of sediment annually.

# Water Quality Improvements in the James River through a Living Shoreline Collaborative (VA)

### Accelerating Implementation of Farmer Adoption of Nutrient Stewardship Practices (DE, MD, PA, VA)

Grantee: The Mid-Atlantic 4R Nutrient Stewardship Association
Grant Amount:
Matching Funds: \$1,084,000
Total Project: \$2,074,000
Bring together stakeholders involved in nutrient
management and those who have environmental concerns
about excess nutrients to work together to develop locally
relevant solutions. Project will identify barriers to nutrient

management adoption, design a communications strategy, engage 300 farms to implement nutrient management, increase implementation of split application of nitrogen and pilot a model for a Pennsylvania Manure Transport Exchange.

### Precision Conservation Partnership Implementing a Regional Restoration Plan in Central Pennsylvania

Grantee: Chesapeake Conservancy

#### SMALL WATERSHED GRANTS - IMPLEMENTATION

#### Implementing Green Stormwater Infrastructure in West Baltimore (MD)

Grantee: Blue Water Baltimore

Grant Amount:\$500,000
Matching Funds:\$499,649
Total Project:
Implement green stormwater infrastructure projects and expand
outreach and planning services to new target neighborhoods in
West Baltimore to reduce nitrogen, phosphorus, and sediment
pollution, develop regional scale partnerships, and increase
citizen engagement. Project will expand, develop, and build upon
previous success in East Baltimore to support neighborhoods in
West Baltimore facing stormwater challenges in the Dead Run-
Gwynns Falls watershed.

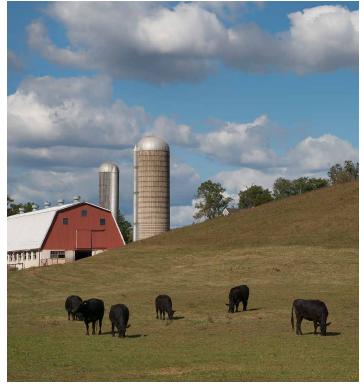
### Expanding Tree Canopy in Charles County, Maryland

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$297,289
Matching Funds:\$250,000
Total Project: \$547,289
Improve local water quality and habitat in Charles County,
Maryland. Project will create an Urban Tree Canopy Plan
with local organizations and government agencies, train 40
Chesapeake Tree Stewards, expand the urban tree canopy by
planting 75 native trees in the Town of La Plata, and reforest
55 acres of land with native trees throughout Charles County.

#### Increasing Wetland Habitat and Creating Tidal Salt Marshes to Support American Black Duck (MD)

Grantee: Harry R. Hughes Center for Agro-Ecology	
Grant Amount:\$469,888	8
Matching Funds:\$161,874	r
Total Project: \$631,762	
Evaluate native perennial grass species for their ability to	
establish viable stands along the margins of farm fields affected	ł



Dairy farm in Pennsylvania

by saltwater intrusion and increase wetland habitat to support wintering American black duck. Project will create complete maps of areas in Somerset and Dorchester counties Maryland to identity priority areas at risk of saltwater intrusion and areas for tidal wetland habitat creation, and also implement wetland restoration projects on 32 acres of farmland.

#### Hopewell Stormwater Green Infrastructure (VA)

Grantee: City of Hopewell, Virginia
Grant Amount:\$500,000
Matching Funds:\$166,500
Total Project:\$666,500
Implement a stormwater green infrastructure project,
including the stabilization of three storm drain outfall
channels that convey stormwater down the highly erodible
escarpment between the developed areas of the city and the
James and Appomattox river floodplains. Project will provide
a significant reduction in stormwater pollutant load to the
Appomattox River, specifically two outfalls located in the
Ashton Creek-Appomattox River Priority Subwatershed.

#### Accelerating Farm Stewardship Forested Buffers and Best Management Practices Implementation (PA)

Grantee: Stroud Water Research Center	
Grant Amount:\$499,920	)
Matching Funds:\$802,381	L
Гоtal Project: \$1,302,301	L
Build on Farm Stewardship Program success and add new	
emphases on implementing agricultural best management	
practices while bringing along much-needed forested buffers.	

Project will accelerate the rate of best management practices implementation, incentivize the inclusion of forested buffers that earn vouchers to pay for planning and implementation, and focus efforts in existing or emerging clusters of conservation so that research can help document the recovery of stream health.

#### Rappahannock-Rapidan Urban Green Stormwater Infrastructure Implementation (VA)

#### Healthy Streams Farm Stewardship: Chesapeake Logperch Initiative (MD, PA)

Grantee: Alliance for the Chesapeake Bay

#### Support for a Successful Transition to Rotational Grazing (PA)

Grantee: Capital Resource Conservation and Development Area Council

#### Glenmont Forest Green Streets Water Quality Restoration (MD)

Grantee: Montgomery County Department of Environmental Protection

Grant Amount:\$500,000
Matching Funds: \$1,656,995
Total Project:
Construct a community-wide green street project in Silver
Spring, Maryland with 67 rain gardens, bioretention gardens,
and tree box filters to improve water quality. Project will
work in collaboration with Rock Creek Conservancy, and the
green infrastructure implemented will educate and engage the
community while reducing 133 pounds of nitrogen, 20 pounds
of phosphorous, and 35 tons of sediment pollution annually to
Rock Creek, the Potomac River, and the Chesapeake Bay.

#### Glen Stream Restoration (VA)

Grantee: Lewis Ginter Botanical Garden

### Turkey Hill Clean Water Partnership: Continued Momentum for Market-Driven Conservation Action (PA)

#### Restoring the Octoraro Reservoir: Continued Plain Sect Conservation Action (PA)



canada geese in the chesapeake ba

### Strengthening Stronghold Brook Trout Patches through Stream Restoration and Habitat Improvement (PA)

Grantee: Trout Unlimited

Grant Amount:\$274,298
Matching Funds:\$167,632
Total Project:
Complete 10 high priority habitat restoration projects and
20 new technical assistance projects located within eastern
brook trout stronghold patches in three geographic focus
areas in the Chesapeake Bay watershed of Pennsylvania.
Project will select focal geographies considering existing
partnerships, ownership, access, and presence of both
stronghold and persistent eastern brook trout patches.

# Bringing the Lynnhaven River Oyster Population to Restored Status (VA)

Grantee: Chesapeake Bay Foundation

#### Collaborative Conservation and Brook Trout Restoration in the Cacapon Watershed (WV)

Grantee: Cacapon & Lost Rivers Land Trust

Grant Amount:	\$350,630
Matching Funds:	\$350,630
Total Project:	\$701,260
Conserve high-quality riparian corridors through	
conservation easements and improve brook trout h	abitat.
Project will convene the Cacapon Watershed Collab	orative

to identify shared goals of watershed partners and build capacity for increased land protection and ecologically sustainable land management, and behavior change research will be conducted to learn effective strategies for engaging landowners in stewardship.

#### **Greening Southside Richmond (VA)**

# Delmarva Working and Natural Lands Conservation and Restoration (MD)

#### Restoring, Enhancing, and Expanding Brook Trout Patch Strongholds in Thorn Creek (WV)

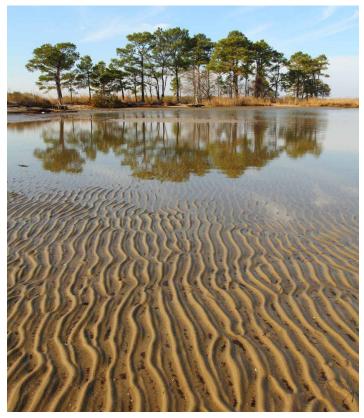
#### Wylie Brook Aquatic Passage Connectivity Project (NY)

Grantee: Trout Unlimited

#### Implementation of Agricultural Best Management Practices in Salisbury Township (PA)

Grantee: Lancaster Farmland Trust

# Enhancing Community Partnerships for Restoration of the Anacostia River Corridor (DC)



Tidal flat on the Chesapeake Bay

#### Demonstrating Sustainable Farm Operations at the Augusta County Correctional Center (VA)

#### Establishing an Poultry Litter Matching Service for a Cleaner Bay and Healthy Farms (DE, MD, PA)

### Restoration of the Eastern Oyster in the Eastern Branch of the Lynnhaven River (VA)

#### Restoring Two Key Tributaries in the Elizabeth River (VA)

Grantee: The Elizabeth River Project

Grant Amount:\$499	9,168
Matching Funds:\$500	),000
Total Project:	9,168
Work with Norfolk, three universities and citizens and	
businesses to restore urban water quality, oysters and wetla	ands
in two key tributaries to the Elizabeth River. Project will ach	ieve
a sub-watershed management plan for Knitting Mill Creek and	
construction of catalyst projects including a living shoreline	,
oyster reef, rain gardens and other green infrastructure to b	e
open to the public at a new Resilience Learning Park.	

#### Fleets Branch Stream Restoration (VA)

Grantee: City of Petersburg

Grant Amount:\$500,000
Matching Funds:
Total Project: \$1,450,000
Implement a shovel-ready, cost effective stream restoration
project. Project will complete phase 2 of a 2,027-linear-foot
restoration of Fleets Branch that has already been designed,
the first half of which is presently under construction.

### SMALL WATERSHED PLANNING AND TECHNICAL ASSISTANCE GRANTS

#### Analyzing Impacts of Poultry Litter on Water Quality on Eastern Shore Freshwater Streams (VA)

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



**Brook trout** 

#### Municipal Urban Forestry Needs Analysis and Pilot Projects for Prince George's County (MD)

#### **Retrofitting Businesses and Industrial Properties (VA)**

#### Old Love Point Park Stream and Park Restoration (MD)

Grantee: Shorerivers

Grant Amount: \$50,000
Matching Funds: \$20,000
Total Project:\$70,000
Produce a comprehensive stream restoration design that
incorporates new stormwater practices within the park,
wetland areas adjacent to the stream restoration, and a
stream restoration design that will complement both the
new stormwater and wetland areas. Project will design
approximately 1,500 linear feet of stream restoration, 2 to 3
acres of wetlands/floodplains, and two to three bioretentions.

#### Improving the Delivery of Outreach and Technical Assistance for Implementation in York County (PA)

#### Little Chiques Park Stream Bank Restoration and Green Infrastructure Master Plan (PA)

Grantee: Mount Joy Borough

### Identifying, Prioritizing, and Incentivizing Marsh Management Actions in the Chesapeake Bay (MD, VA)

#### Modelling an Approach to Greening Gray Infrastructure (MD)

Grantee: National Wildlife Federation



American black duck

fish and shellfish habitat and provide enhanced, measurable nutrient and sediment reduction benefits when implemented.

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

# Development of Stormwater Management Strategies in the Nanticoke River Watershed (DE)

Grantee: Nanticoke Watershed Alliance
Grant Amount: \$49,978
Matching Funds: N/A
Total Project: \$49,978
Develop a stormwater management strategy for regulated
and unregulated communities to meet Delaware's Chesapeake
Bay Phase III Watershed Implementation Plan goals in the
Nanticoke River watershed. Project will begin implementation
of the top three priorities: maximize existing water quality
opportunities and investments; reinvigorate water quality
project convening and coordination; and improve ditch
management for water quality benefits.

#### Wyoming Valley Chesapeake Bay Tributary Field Assessments and Monitoring (PA)

Grantee: Eastern Pennsylvania Coalition for Abandoned Mine Reclamation

#### Greater Baybrook Green Infrastructure Master Plan (MD)

Grantee: Greater Baybrook Alliance

Grant Amount: \$49,788
Matching Funds: \$75,000
Total Project: \$124,788
Develop a green infrastructure master plan that will
create a network of green hubs and corridors and related
programming and jobs. Project will build upon a green
infrastructure concept plan, conducted by the American
Planning Association, for the Brooklyn community and is
identified as a high priority in the 2016 Greater Baybrook
Vision and Action Plan, the communities' master plan.

# Monitoring Water Quality and Health of the Wicomico River (MD)

Grantee: Wicomico Environmental Trust

Grant Amount: \$50,000
Matching Funds:\$235,000
Total Project:
Recruit volunteers to monitor the waters of the Wicomico
River and its tributaries on Maryland's Lower Eastern Shore
to collect and develop objective, scientifically credible water
quality data. Project will train volunteers to collect water
samples and record site conditions, assess samples water
clarity, total nitrogen and phosphorus, chlorophyll a, and
bacteria, and conduct scientific analysis by trained scientists
before results are delivered to the public.

#### Preserving Open Space and Protecting Vulnerable Habitat (VA)

Grantee: Capital Region Land Conservancy

Grant Amount: \$50,000
Matching Funds: \$27,000
Total Project:
Develop a strategy for the city of Richmond to identify
and protect additional lands that improve the health and
function of tributaries, improve habitat and establish wildlife
corridors, while also creating public access. Project will



Great egret on an oyster bed

include significant community outreach and engagement to improve public participation in the location and design of habitat restoration, and outcomes will include one implementation plan that includes prioritization of 10 parcels.

#### **Roberts Field Restoration (MD)**

#### River Herring Habitat Assessment for Oxon Run and Lower Beaverdam Creek (DC, MD)

Grantee: Metropolitan Washington Council of Governments
Grant Amount: \$49,805
Matching Funds: \$12,601
Total Project: \$62,406
Evaluate river herring habitats upstream and downstream of
the fish blockages and propose structures to provide passage
for these blockages, monitor for the strength of river herring,
and provide a brief study informational plan. The project
will restore river herring access and use of high quality
migratory stream habitat and provide capacity and planning

information for Prince George's County Department of the Environments and District of Columbia Department of Energy and Environment.

#### Little Beaver Creek Stream and Riparian Buffer Restoration (PA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$49,998
Matching Funds: N/A
Total Project: \$49,998
Conduct initial feasibility analysis and planning efforts on the
highly eroded streambanks of 1,275 foot segment of Little
Beaver Creek, which runs through farm property owned
in Strasburg Township, Lancaster County, Pennsylvania.
Project will result in a report which will outline project scope,
permitting requirements, and estimated project costs which
will address streambank erosion.

# Maryland State Fairgrounds Green Infrastructure Planning and Design

Grantee: Center for Watershed Protection

Grant Amount:
Total Project:
Provide technical and coordination assistance to the
Maryland State Fair and its many partners to advance high-
profile green infrastructure projects and facilitate improved
Fairgrounds operations. Project will include a project site
survey, geotechnical investigation, stormwater engineering
design, project implementation planning and coordination,
and capacity building for local residents.

#### Bedford County Watershed Action Plan Development (PA)

### Hickory Ridge Walkable Watershed Concept Plan Development for the Patuxent River Watershed (MD)

Grantee: Community Ecology Institute
Grant Amount: \$49,949
Matching Funds: \$23,500
Total Project:
Address stormwater management that brings key
stakeholders and members of the community together
with planners to develop a shared vision and set of

priorities. Project will be a community-based concept plan that includes a network of stormwater management opportunity sites that focus on Patuxent River and Chesapeake Bay watershed restoration goals to address flooding and stormwater runoff, nutrient and sediment reduction, improving water quality, and improving access to community amenities.

#### Expanding Growing Native Tree Initiative (MD, VA)

#### Leggett's Creek Greenway Project (PA)

Grantee: Lackawanna River Conservation Association
Grant Amount: \$50,000
Matching Funds: \$35,258
Total Project:\$85,258
Address environmental issues caused by past anthracite
coal mining activities and commercial and residential
development within this sub-watershed which has resulted
in a compromised ecosystem lacking in biodiversity.
Project will mitigate erosion and sediment loading
through the installation of bank stabilization measures,
and storm water runoff management, and monitoring
and management program will be established to ensure
sustained project efficiency.

# Outfall and Gully Stabilization Project Design and Regional Pollutant Reduction Calculator (VA)