



# CHESAPEAKE BAY STEWARDSHIP FUND

## 2016 PROGRAM REPORT





# OUR PROGRAM

The Chesapeake Bay Stewardship Fund supports efforts by local communities, farmers and private landowners to restore polluted rivers and streams in the Chesapeake Bay region by advancing cost-effective and creative solutions and providing financial and technical assistance.

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The Stewardship Fund is managed by the National Fish and Wildlife Foundation (NFWF), in partnership with government agencies and private corporations. Major funding is provided by the U.S. Environmental Protection Agency, Altria Group, the USDA's Natural Resources Conservation Service and U.S. Forest Service, CSX, the National Oceanic and Atmospheric Administration, SeaWorld and the U.S. Fish and Wildlife Service.

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.

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**ON THE COVER** The blue heron is one of hundreds of species of birds that live in the Chesapeake Bay watershed. Some birds live there year-round, while others migrate to the Bay region to feed or nest.

These programs 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 Bay.

In fiscal year 2016, the Stewardship Fund awarded 39 implementation grants and 26 Technical Capacity Grants to support projects in Delaware, Maryland, New York, Pennsylvania, Virginia, West Virginia and the District of Columbia that improve waterways, restore habitats and strengthen iconic species.

**About the National Fish and Wildlife Foundation:** Since its creation by Congress in 1984, NFWF has become the nation's largest conservation grant-maker. The Foundation works with both the public and private sectors to sustain, restore and enhance the nation's fish, wildlife, plants and habitats for current and future generations.

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**LEFT PHOTO** A marsh system on the Eastern Shore of Maryland

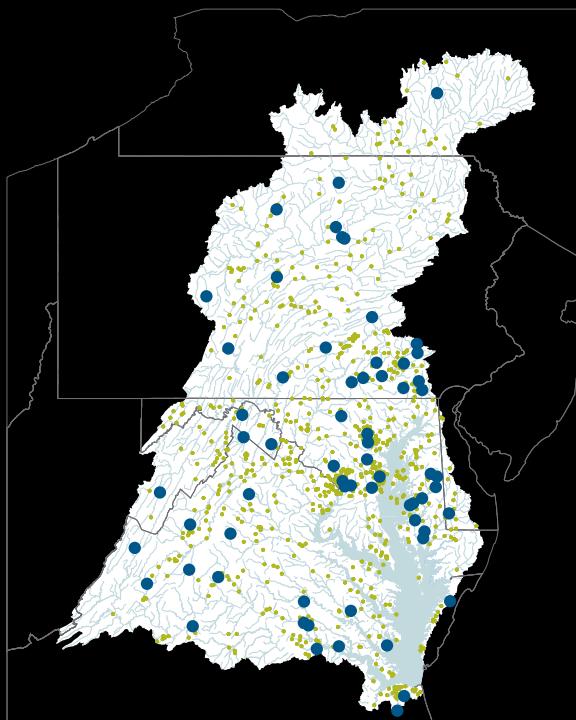
**RIGHT PHOTO** One of the many coastal communities along the Chesapeake Bay



# OUR INVESTMENTS

NFWF's Chesapeake Bay Stewardship Fund is a portfolio of three grant programs designed to help local communities clean up and restore polluted rivers and streams in the Bay region. Through a partnership with the U.S. Environmental Protection Agency and the Chesapeake Bay Program, the Stewardship Fund advances cost-effective and creative restoration solutions.

## Local Water Quality Investments



● Location of New 2016 Stewardship Fund Grants

• Previous Stewardship Fund Projects Funded by NFWF

## 2016 Project Funding Snapshot



## 2016 Highlights

- Awarded \$10.9 million in grants for on-the-ground restoration
- Awarded \$1.2 million in grants increasing technical capacity
- Established the Chesapeake Bay Comprehensive Water Resources and Restoration Plan to better integrate the capabilities of the U.S. Army Corps of Engineers into Bay restoration efforts
- Established an initiative to improve economic and environmental sustainability of Pennsylvania's agriculture sector
- Launched FieldDoc.org, a geospatially enabled tool for grantees in the Chesapeake Bay region to track, measure, and report on project metrics and nutrient/sediment load reductions
- Updating the Chesapeake Bay Business Plan, NFWF's guiding conservation investment strategy for the Chesapeake Bay region.

# OUR IMPACT

Through grants awarded in 2016, the Stewardship Fund will achieve significant impacts towards a healthier Chesapeake Bay watershed by working to restore local rivers and streams.

**4 Million** POUNDS  
Of Nitrogen Reduced Annually

18.4 MILLION POUNDS SINCE 1999

**325,000** POUNDS  
Of Phosphorus Reduced Annually

4.3 MILLION POUNDS SINCE 1999

**72 Million** POUNDS  
Of Sediment Reduced Annually

7.8 MILLION POUNDS SINCE 1999

**147** MILES  
Of Stream Restored Through Stream Side Forested Buffers  
and Livestock Exclusion

2,010 MILES SINCE 1999

**1,300** ACRES  
Of Urban Runoff Treated Using Green Infrastructure  
For Stormwater Management

11,320 SINCE 1999

**120,000** PEOPLE  
Engaged In Restoration And Community  
Stewardship Activities

1,929,444 PEOPLE SINCE 1999

# OUR PROJECTS: GOOD FOR FISH, GOOD FOR WATER

In the headwaters of the Potomac River in West Virginia, Trout Unlimited is using 2016 NFWF grant funding and local love for an iconic freshwater fish species to inspire conservation actions by local landowners.



Trout Unlimited has long worked to conserve, protect and restore North America's coldwater fisheries. In the Chesapeake Bay watershed and especially in West Virginia, that means eastern brook trout, the Mountain State's official state fish.

Work to help protect and restore the species has special importance in the Chesapeake Bay watershed. As a coldwater trout, eastern brook trout require cold, clean water to survive and the same actions that help to sustain the species are critically important to improving water quality in the rivers and streams that feed the Chesapeake Bay.

Through its Potomac Headwaters Home Rivers Initiative, Trout Unlimited is working to enlist local landowners in achieving goals to restore, reconnect, and expand available aquatic habitats for eastern brook trout. By identifying landowners willing to implement conservation projects and change their land management practice, they're helping to advance in-stream restoration, reintroduction of brook trout in strategically identified watersheds, and removal of barriers that impede the movement of brook trout across high-quality habitats.

A broad partnership is helping to get the work done. Volunteers to help with local restoration projects are being identified through Trout Unlimited's local chapters, while conservation colleagues with the Cacapon and Lost Rivers Land Trust are assisting with the outreach to potential landowners and focusing land protection efforts to help secure intact brook trout habitats for future generations.

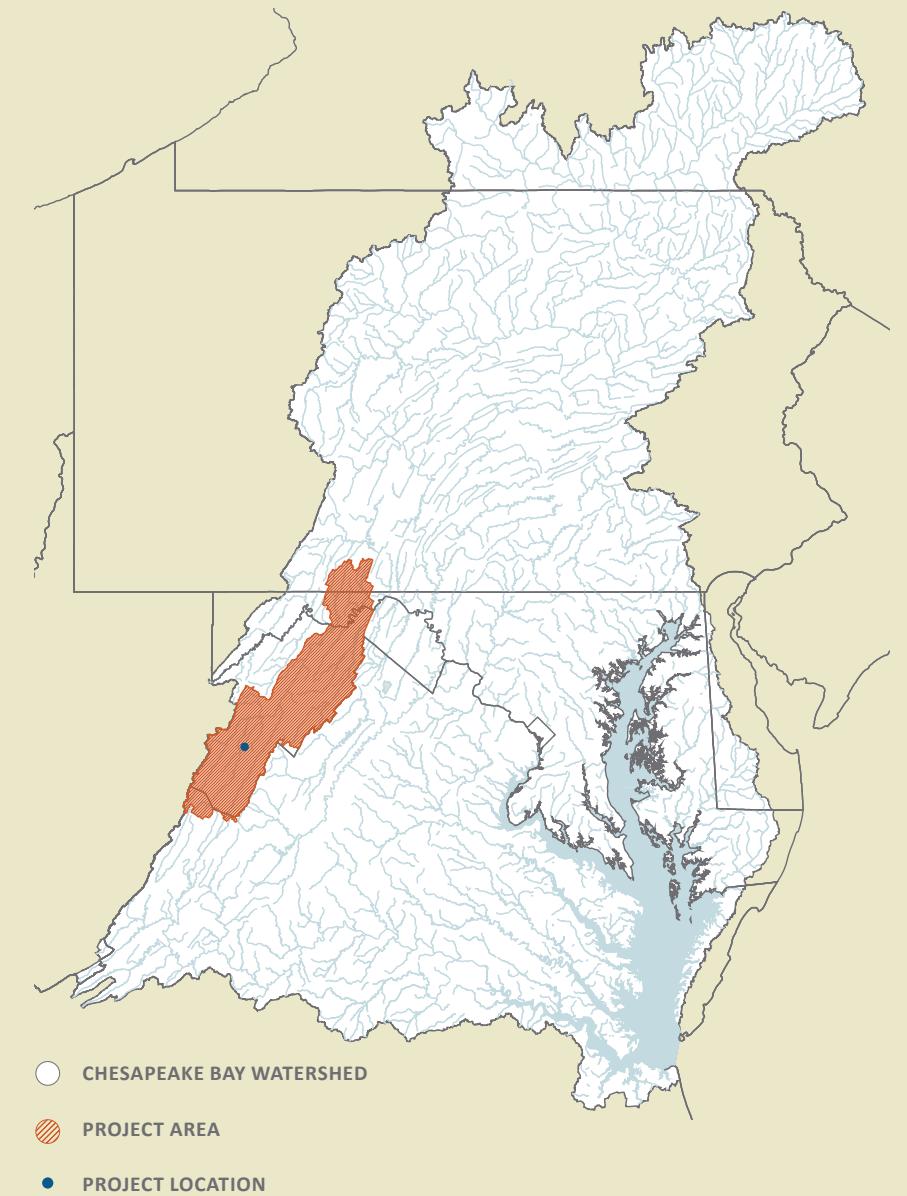
Partners with an array of federal and state agencies, including the U.S. Department of Agriculture's Natural Resources Conservation Service and U.S. Forest Service, are also providing financial and technical assistance.

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**RIGHT PHOTO** The Chesapeake Bay is well-known for hosting huge numbers of waterfowl, including black ducks. The Bay serves as a critical stepping stone in the Atlantic Flyway, a major flight path for millions of birds.



## SHENANDOAH WATERSHED



## OUR PROJECTS: SUPPORTING COMMUNITY EFFORTS

Delaware's Sussex County Conservation District is helping the county's small municipalities meet new standards for stormwater management through a NFWF grant aimed at innovative regional approaches to environmental management for local governments.



The district's David Baird sums up the challenge at hand. "These are all small towns with populations ranging from 1,000 to 3,000" on average. "Their resources are limited" for addressing water quality issues, so "there's a need to support and partner with these small municipalities who might not otherwise have the tools" to get the job done, Baird said.

The district is providing coordination, assistance and information sharing to help identify and implement water quality projects. "The key," Baird said, "is to let the municipalities know they have a regional resource to address these critical needs."

Baird and partners with Resource Smart LLC visit with Delaware municipalities, often attending planning meetings to help communities forecast permitting requirements and to understand prospective stormwater compliance issues.

Projects already underway are helping to retrofit old stormwater infrastructure at a local shopping center in Seaford, improve existing drainage ditches in Greenwood for increased nutrient removal, and design a new fire station in Blades capable of treating runoff from a number of adjacent impervious areas.

"I'm happy to be in a position to help the towns," said Jen Nelson with Resource Smart, herself a longtime resident of the area. "A regional, cooperative approach helps make solving everyone's stormwater issues much easier and we can all be proud of the results."

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**LEFT PHOTO** The Chesapeake Bay Stewardship Fund supports an effort to improve stormwater management at this shopping center in Seaford, Delaware.

**RIGHT PHOTO** Urban runoff affects wildlife in the Bay.



## LOWER EASTERN SHORE WATERSHED



## OUR PROJECTS: WORKING WITH FARMERS

The Pennsylvania Department of Agriculture is helping the state's farmers improve local water quality and their bottom lines thanks to a NFWF grant focused on broad-based partnerships to demonstrate the connection between conservation, herd health and farm profitability.



The project is based on what Pennsylvania Secretary of Agriculture Russell A. Redding cites as a “culture of stewardship” among farmers in the state. “We know throughout Pennsylvania, there are farmers who are doing the right thing on their own” to improve water quality “because it’s the right thing to do,” Redding added.

The project will focus on effort in the Fishing Creek watershed, a region dominated by Plain Sect farms in the Lancaster County region. More than dozen other partners are involved, ranging from state and local agencies to environmental organizations and major dairy industry partners.

Based on stakeholder input and experience from around the region, the project will provide all producers in the area with help to first achieve compliance with state regulations for soil erosion and manure management. Additional resources will then be provided to help farmers meet an ambitious goal to fence 100 percent of local livestock out of surrounding streams.

In the process, the project will demonstrate how livestock exclusion not only improves water quality but also provides economic benefits for local dairy producers. Justin Risser,

President of Professional Dairy Managers of Pennsylvania and a county dairy farmer added that he's excited about sharing “how incorporating best environmental management practices can actually improve heard health and ultimately, the dairy's profit.”

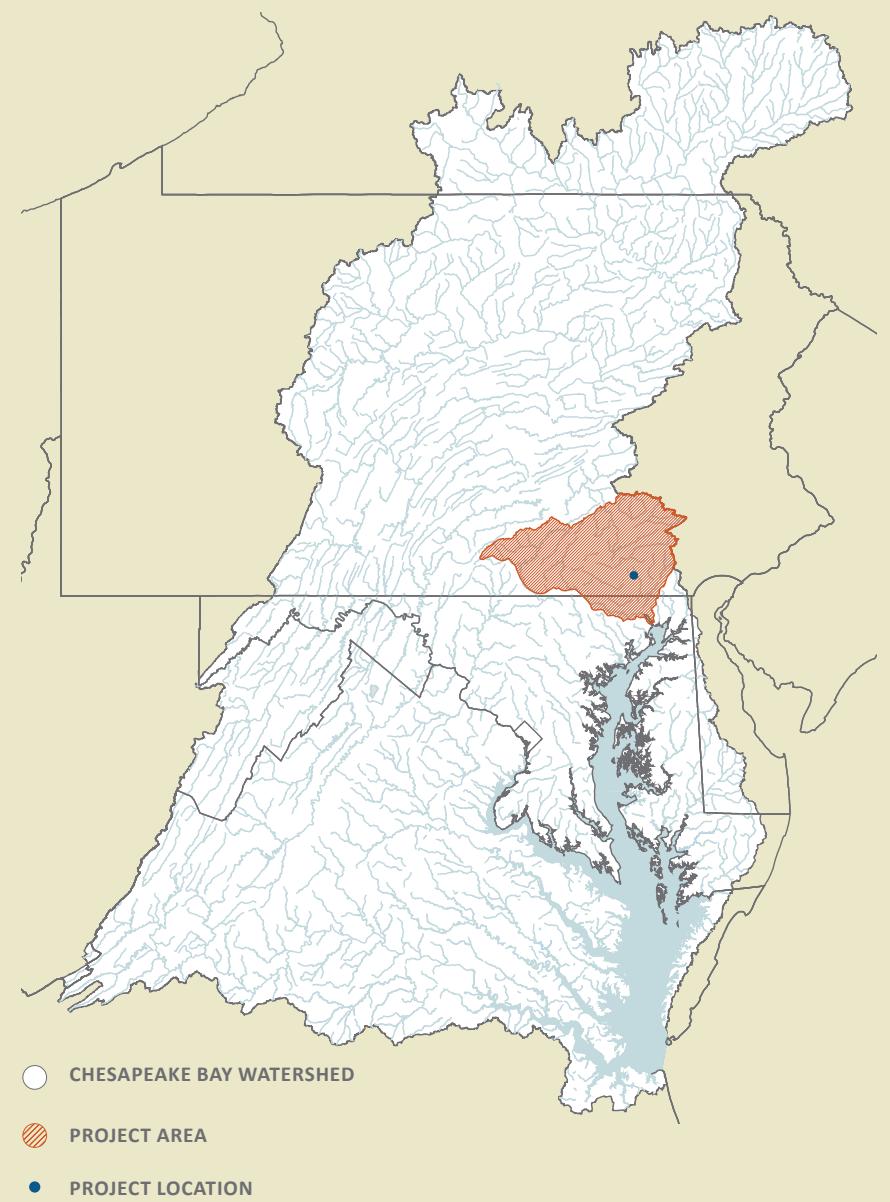
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**LEFT PHOTO** The Chesapeake Bay Stewardship Fund helps dairy producers implement changes that are good for the environment, their farms and their bottom lines.

**RIGHT PHOTO** Buffers and fences can keep streams clean.



## LOWER SUSQUEHANNA WATERSHED



# OUR GRANTS

The Stewardship Fund is working to achieve the shared goals of the Chesapeake Bay Program partnership on issues critical to sustained restoration success.

## District of Columbia

### Anacostia Waterfront Trust

#### *Proving a New Model of Self-Sustaining Stormwater*

#### *Management in the Anacostia River*

Combine engineered bioretention-based stormwater treatment, stream restoration, stormwater job development, internships and educational activities in the Anacostia River area of the District of Columbia. Project will reduce nutrients, sediments and toxic pollutants flowing into the Anacostia River and Chesapeake Bay and demonstrate the value of leveraging private capital to accelerate stormwater management on private land.

\$200,000

## Maryland

### Carroll County Government, Bureau of Resource Management

#### *Implementing Environmental Site Design to Improve Water Quality at Carroll County Farm Museum*

Restore Carroll County Farm Museum's natural resources and engage museum visitors in enhancing local water quality. Project will implement five demonstration stormwater management practices at the museum by providing runoff storage and filtration and increasing stream buffers.

\$150,000

### Chesapeake Wildlife Heritage

#### *Canterbury Farm Wetland Restoration*

Restore 15 acres of non-tidal wetlands at Canterbury Farm and educate 25 landowners in the region about their role in restoring wetlands. Project will restore 7 acres of shallow water emergent wetlands and 8 acres of wooded wetlands in the Choptank River watershed, reduce nitrogen by 3,195 pounds, phosphorus by 150 pounds and sediment by 40,000 pounds annually, and help achieve local and state Watershed Implementation Plan goals.

\$96,452

### Eastern Shore Land Conservancy

#### *Envision the Choptank: A Collaborative Restoration for Oyster Success*

Develop a comprehensive program to accelerate the rate at which agricultural and residential best management practices are implemented in the lower Choptank watershed area, including the Harris and Broad Creek and the Tred Avon River watersheds. The partnership will prioritize restoration locations and engage landowners through a series of targeted workshops and one-on-one assistance. Project will reduce 155 pounds of phosphorus, 3,650 pounds of nitrogen and 40,800 pounds of sediment annually.

\$152,074

### Interfaith Partners for the Chesapeake

#### *Cultivating Watershed Covenant Communities*

Cultivate faith congregations from the Jones Falls watershed who embody Creation Care stewardship values, as demonstrated by visible actions and community leadership. Project will engage 15 congregations to install best management practices on their properties, form green ministries, sign a covenant pledging ongoing stewardship, and implement additional outreach to community members.

\$199,301

### Low Impact Development Center

#### *Clean Water Partnership Stormwater Management*

#### *Retrofits Using High Flow Media*

Retrofit five churches and one municipally-owned property in Prince George's County with enhanced micro-bioretention facilities. Project will support the county's innovative Clean Water Program in its efforts to escalate the retrofit of uncontrolled urban development, evaluate the effectiveness of enhanced best management practices for use in highly urbanized/impervious settings where space for installation is limited, and support the county's Alternative Compliance Program.

\$609,455

# OUR GRANTS

## Maryland Department of Natural Resources

### Oyster Management Public-Private Partnership

Enhance the long-term business and economic interests of Maryland's watermen. Project will increase spat on shell production for the development of an oyster fishery cooperative for Maryland's oystermen, ensure the viability of the state's commercial fishery by attracting a new generation of watermen and revitalizing Maryland's working waterfront communities, and establish oyster restoration, conservation and productivity as an integral part of Maryland's water quality and environmental markets.

\$200,000

## Nanticoke Watershed Alliance

### Cambridge Residential Stewardship Initiative

Engage homeowners and renters in Cambridge, Maryland in an initiative to explore barriers and benefits to implementing residential best management practices (BMPs) in a community with significant socio-economic challenges. BMPs will be installed on 10 residential properties, which include rain gardens and barrels, conservation landscaping and tree planting.

\$85,819

## National Wildlife Federation

### Schoolyard Habitats in Baltimore City

Install a large-scale demonstration schoolyard habitat at Green Street Academy and design and install stormwater-focused best management practices at the Academy and nine other schools, creating a network of schoolyard habitats in Baltimore. Project will engage 20 teachers and 10 facilities managers, remove 16,600 square feet of parking lot, and transform 3,600 square feet of compacted urban fill or compacted turf into pollinator habitat.

\$200,000

## Rock Creek Conservancy

### Increased Participation in Stormwater Management

#### Programs through Social Marketing

Create a behavior change project in Aspen Hill, Maryland to assess the barriers to adoption of the RainScapes program through a social marketing plan and implementation program. Project will share all lessons learned with the Montgomery Department of Environmental Protection to help adjust the program to make it more accessible to all homeowners.

\$80,418

## Spa Creek Conservancy

### Southwoods Community Stormwater Retrofit

Implement a Watershed Action Plan developed for the Southwoods community, which enlists private property owners to reduce nutrient and sediment pollution and stormwater runoff, restore wetlands, streams and riparian forested buffers on working forests and farms. Project will prevent nitrogen, phosphorus and sediment from entering the local waterway.

\$192,518

## Pennsylvania

## Alliance for the Chesapeake Bay

### Restoring the Octoraro Reservoir: Plain Sect Conservation

Achieve pollutant reductions in subwatersheds contributing to drinking water supplies in the Octoraro Creek Watershed through outreach and agricultural best management practice installation on Plain Sect farms. Project will build upon existing local efforts through the creation of a Source Water Protection Collaborative and development of a sustainable regional financing plan for ongoing implementation.

\$749,676

## American Rivers

### Reconnecting Historic Migratory Fish Habitats

Remove a fish barrier to restore access to 2.9 miles of upstream headwaters for spawning brook trout in Chiques Creek. Project will benefit migratory and resident fish in the Susquehanna River Basin and remove a deteriorating safety hazard from this high-priority brook trout creek.

\$199,916

## Borough of Carlisle

### Carlisle Urban Stormwater Park

Reduce flooding by implementing stormwater best management practices integrated with park and recreation facilities located in the disadvantaged northwest quadrant in Carlisle. Project will provide the needed stormwater detention capacity to serve runoff from the planned redevelopment of an adjacent brownfield site, while preventing nutrients and other pollution from entering the vulnerable LeTort Spring, which feeds into Conodoguinet Creek and the Chesapeake Bay.

\$599,452

## Borough of Spring Grove

### Campus Avenue Stream Restoration

Restore approximately 1,250 linear feet of Codorus Creek to correct eroding streambanks and channels, thereby reducing sediment discharge to the Lower Susquehanna watershed by 6,000 pounds annually. Spring Grove Borough and Jackson Township are urban landscapes with several direct stormwater discharges to the stream. Project will identify measures to move back the direct discharge points and create a natural buffer through man-made wetland areas to dissipate concentrated upstream runoff.

\$185,000

# OUR GRANTS

## Chesapeake Conservancy

### *Implementing Precision Conservation in the Susquehanna River Watershed*

Collaborate and harness newly available high-resolution GIS datasets and tools to conduct precision conservation and better focus restoration efforts and BMP implementation on the ground. Project will demonstrate improved efficiency, effectiveness and returns on investment through better site selection prioritization and support technology transfer to broaden adoption across multiple regions.

**\$562,237**

## Lancaster Farmland Trust

### *Driving BMP Implementation in East Lampeter Township*

Implement stream corridor and livestock BMPs on strategic farms in East Lampeter. Project will utilize data collected during farm assessments completed on all farms in the township and MapShed modeling results, which identified riparian corridors and livestock as the two leading contributors to nutrient and sediment pollution in the township, to identify and implement cost-effective, site-specific best management practices on six farms.

**\$328,329**

## Lancaster Farmland Trust

### *Transforming a Community into Resource Stewards*

Assist three conservative Mennonite farmers in Lancaster County with implementing field-based and structural practices that address nitrate levels. Project will engage the farming community and expand on existing education and outreach efforts. Project will reduce 1,783 pounds of phosphorus, 9,807 pounds of nitrogen and 56,000 pounds of sediment annually.

**\$187,662**

## Pennsylvania Department of Agriculture

### *Pennsylvania Adaptive Toolbox for Conservation Saturation*

Pilot the Pennsylvania Adaptive Toolbox for Conservation Saturation. Project will achieve 100 percent livestock stream exclusion, seek greater participation in conservation planning and practice implementation, and demonstrate a correlation between conservation efforts, herd health and farm profitability.

**\$632,320**

## Trout Unlimited

### *Sediment Reduction and Fish Passage in the Kettle Creek Watershed*

Open 1.6 miles of coldwater habitat and reduce sediment pollution by 6,780 pounds a year to benefit the eastern brook trout in Kettle Creek. Project will provide related training and educational outreach to targeted audiences who can help to plan and implement similar projects to benefit eastern brook trout in their respective watersheds of the Chesapeake Bay.

**\$163,232**

## Western Pennsylvania Conservancy

### *Chest Creek Watershed Restoration*

Implement agricultural BMPs and sediment reduction measures, and install riparian buffers in the Chest Creek Watershed. Project will work with two agricultural producers to reduce sediment and nutrient pollution in the watershed. Specific BMPs will include 3,850 feet of exclusion fencing, two manure management plans, two heavy-use protection areas, one stabilized livestock crossing and 1 acre of riparian restoration.

**\$178,708**

## Western Pennsylvania Conservancy

### *Juniata River Agricultural Technical Assistance and Best Management Practice Implementation*

Work with farmers in the Juniata River watershed to reduce nutrient and sediment runoff in the Yellow Creek subwatershed and ensure that they will have nutrient/manure management and agricultural erosion and sediment control plans to meet state regulatory requirements.

**\$158,847**

## York County Planning Commission

### *York County Stormwater Authority*

Create a County Stormwater Authority to expand on the current success of regional stormwater efforts to more cost effectively manage common elements of municipal MS-4 permits, to improve the impaired streams in York County, and to consider actions to address agricultural compliance within the county.

**\$203,420**

## Virginia

### *Alliance for the Chesapeake Bay*

### *Chesapeake RiverWise Education*

Reduce stormwater pollution in the City of Richmond by implementing green infrastructure best management practices on school properties through the RiverWise Education program. Project will focus on reducing stormwater on the grounds of Winford Middle School, expanding the curriculum to different classes, and establishing green teams to maintain these education projects all over the city.

**\$199,973**

# OUR GRANTS

## Chesapeake Bay Foundation

### *Hopewell Restoration*

Reduce polluted stormwater runoff in Hopewell, educate the community on the benefits of conservation practices, and increase green infrastructure in the aging urban area. Project will include constructing five rain gardens, putting in 45 rain barrels, installing a bioretention basin and permeable pavers at a city-owned parking lot, erecting 10 pet waste stations, and planting 100 trees to increase the city's tree canopy.

\$199,673

## Friends of the Rappahannock

### *Kinsey Run Stream Restoration*

Collaborate with partners in an effort to incorporate and build on stakeholder priorities, data sets and localized restoration techniques to implement stream restoration practices throughout a portion of Kinsey Run. Project will plant a 30-foot riparian buffer, restore/enhance 808 linear feet of in stream habitat, reconnect to upstream habitat by removing fish blockage, monitor progress, engage regional partners, promote science, and keep nutrients and sediment from entering local waterways.

\$193,083

## King & Queen County Board of Supervisors

### *County Courthouse Green Infrastructure Improvements*

Address the drainage issues caused by stormwater runoff in and around the courthouse complex. Project will remove the asphalt in the existing parking lot areas, address the grade issues, and resurface with a permeable pavement material. Two grass swales, which help to treat stormwater runoff, will be installed along the outskirts of the parking lot areas.

\$200,000

## Middle Peninsula Planning District Commission

### *Oyster Bag Sill Construction and Monitoring at Sites in Chesapeake Bay*

Construct a living shoreline with oyster bag sills and monitor those sills at two publicly-owned properties on Virginia's Middle Peninsula. The oyster bag sills will protect the marsh edge from erosion, reducing sediment and nutrient input to the Bay and maintaining wetland shellfish and finfish habitat.

\$92,637

## Northern Neck Planning District Commission

### *Northern Neck Living Shorelines*

Install a living shoreline, bank stabilization and runoff reduction landscaping in each of the four counties of Virginia's Northern Neck. Project will focus on outreach and public education to more than 500 property owners to promote the installation of living shorelines and other runoff reduction treatments on their property.

\$196,504

## Randolph-Macon College

### *Mechumps Creek Regenerative Wetlands Demonstration*

Implement a stream restoration and regenerative wetland project aimed at improving aquatic habitat and promoting infiltration and nutrient reduction along approximately 1,200 linear feet of Mechumps Creek in Ashland. Project will integrate a central stream channel with contiguous regenerative stormwater wetlands and will prevent approximately 520 tons of sediment, 1.2 tons of soil-based nitrogen and 0.6 tons of phosphorus from reaching the Chesapeake Bay over a 20-year period.

\$200,000

## The Elizabeth River Project

### *Restoring the "Lost Branch" of the Elizabeth River*

Accelerate nutrient and sediment reductions for the Elizabeth River's Eastern Branch. Project will carry out a sub watershed plan to improve the Indian River and Broad Creek tributaries of the Eastern Branch of the Elizabeth River from scores of F to at least D for Enterococcus bacteria, and improve the overall water quality score for the Eastern Branch from D to C.

\$742,887

## Trout Unlimited

### *Improving Water Quality and Brook Trout Habitat in the Upper James River*

Improve water quality and brook trout habitat in the Upper James River watershed by focusing on priority watersheds with a high likelihood of expanding brook trout habitat. Project will take conservation action on targeted stream reaches in heavy agricultural areas in these watersheds where the benefits extend to better water quality and expanded brook trout patch habitat. Project will reduce annual sediment load by 40 tons, nitrogen by 120 pounds and phosphorus by 32 pounds.

\$190,335

## Virginia Polytechnic Institute and State University

### *Move to Sustainable Phosphorus Mass Balance to Reduce Phosphorus Inputs to the Bay*

Tie dairy farm phosphorus mass balance with milk production per acre to attain sustainable phosphorus mass balance on dairy farms in the Shenandoah Valley. Project will include poultry farms, small unregulated dairies, larger regulated dairies and some combined dairy and poultry operations.

\$367,208

# OUR GRANTS

## West Virginia

### **City of Charles Town, WV**

#### **Evils Run Green Infrastructure Park (WV)**

Protect water quality, restore the aquatic ecosystem, and create a park and recreational area along Evitts Run Creek, in an economically distressed downtown neighborhood, through green infrastructure and low-impact facilities including a stormwater lake, retrofitted stormwater basin, three large rain gardens, constructed wetlands, pervious parking, and a native nursery. Project will reduce 46,000 pounds of sediment, 588 pounds of phosphorus and 412 pounds of nitrogen per year.

**\$725,001**

### **Trout Unlimited**

#### **Expanding Brook Trout Habitat within the Potomac Headwaters (WV)**

Restore, reconnect and expand fragmented brook trout habitat in the Potomac Headwaters in West Virginia. Project will accomplish this through riparian and in stream restoration, brook trout reintroduction, and aquatic organism passage barrier mitigation. Project will increase Farm Bill Program participation by restoring 48 acres of riparian habitat to accelerate agricultural conservation and reduce 976 pounds of nitrogen, 269 pounds of phosphorus and 460,000 pounds of sediment annually.

**\$184,970**

## Multistate

### **Sustainable Chesapeake**

#### **Achieving Phosphorus Balance in the Chesapeake Bay Watershed (Multiple States)**

Engage stakeholders in Chesapeake Bay watershed to achieve farm and regional nutrient balance in high-density animal production areas. Project will expand markets for manure and its co-products to facilitate cost-effective transport of excess nutrients, facilitate Manure Management Plan and Nutrient Balance Sheet development, identify long-term solutions, engage 12,000 to 16,000 producers, and reduce 3,328,800 pounds of nitrogen, 124,564 pounds of phosphorus and 30,048 tons of sediment per year.

**\$626,835**

### **The Nature Conservancy**

#### **Increasing Nutrient Use Efficiency and Improving Water Quality on Delmarva (DE, MD)**

Expand collaborations with Delmarva agribusinesses to improve water quality by increasing the adoption of advanced nutrient management practices. Project will develop public-private partnerships with at least two agricultural retailers, perform jointly-funded demonstration projects with farmers to purchase equipment and management tools, develop local case studies, and reduce annual loads of nitrogen by 105,250 pounds, phosphorus by 26,000 pounds and sediment by 791 tons.

**\$195,953**

## Ducks Unlimited

### **Black Duck Decision Support Tool Implementation (MD, VA)**

Implement the Black Duck Decision Support Tool, a model which incorporates current landscape condition and expected change due to urban growth and sea-level rise, to identify priority areas that have the highest habitat quality for American black ducks within the Chesapeake Bay. Project will focus on perpetual conservation of 300 acres of priority American black duck habitat on Maryland and Virginia's eastern shore to establish protected habitat corridors.

**\$199,831**

### **The Potomac Conservancy**

#### **Potomac Priority Lands (VA, WV)**

Complete at least four conservation easements that will protect 600 acres of forest and agricultural land and 3 miles of existing forested riparian buffers. Where applicable, easements will require livestock stream exclusion fencing and riparian restoration to reduce nitrogen, phosphorus, fecal coliform and sediment loading.

**\$68,038**

### **Technical Capacity Grants**

In addition to the implementation grants listed above, the Chesapeake Bay Stewardship Fund also awarded 26 Technical Capacity Grants to assist with planning and design. These grants represent an investment of just over \$1,192,000 across the Bay watershed.

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**RIGHT PHOTO** The Chesapeake Bay is well-known for hosting huge numbers of waterfowl, including black ducks. The Bay serves as a critical stepping stone in the Atlantic Flyway, a major flight path for millions of birds.

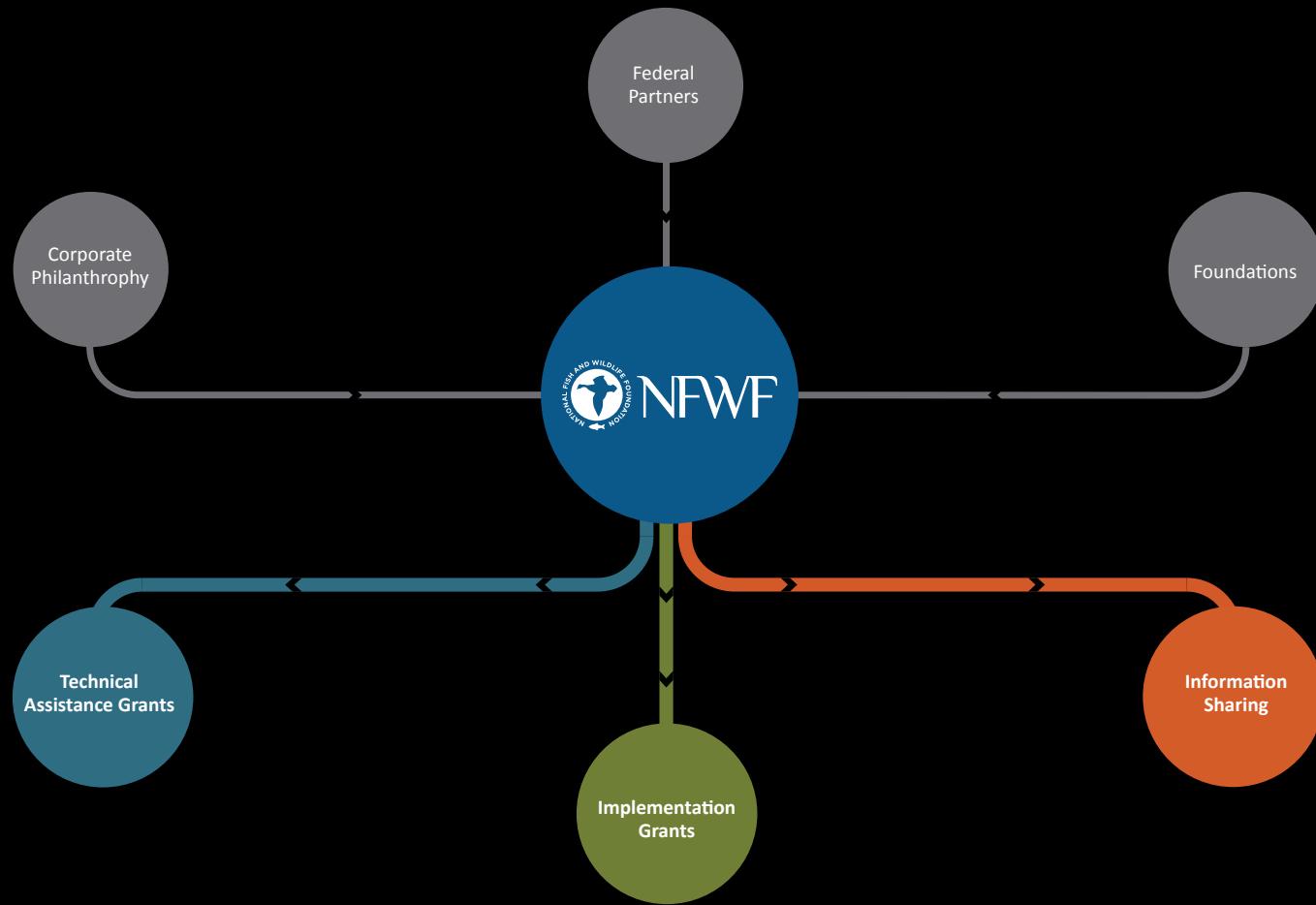


# OUR PROCESS

NFWF's 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.

## How Fund works

Working in partnership with government agencies and private corporations, the Stewardship Fund supports conservation projects through two competitive grant programs and directed technical assistance. Through NFWF-sponsored forums and symposia, we also serve as a convener and thought leader on the critical cross-cutting issues affecting the health of the Bay.







FOR ADDITIONAL INFORMATION ABOUT THE CHESAPEAKE BAY STEWARDSHIP FUND, PLEASE CALL US AT: 202-857-0166. OR VISIT OUR WEBSITE AT: [WWW.NFWF.ORG/CHESAPEAKE](http://WWW.NFWF.ORG/CHESAPEAKE)

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