# **NFWF** Delaware Watershed Conservation Fund

**NFWF CONTACTS** 

Rachel Dawson Program Director rachel.dawson@nfwf.org 202-595-2643

#### Sydney Godbey

Manager sydney.godbey@nfwf.org 202-595-2612

#### Erin Lewis

Coordinator erin.lewis@nfwf.org 202-595-2413

#### PARTNERS



#### **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

1133 15th Street, NW Suite 1000 Washington, D.C., 20005 202-857-0166



**Delaware River** 

#### **OVERVIEW**

The National Fish and Wildlife Foundation (NFWF) and the U.S. Fish and Wildlife Service announced a 2021-year round of funding for Delaware Watershed Conservation Fund projects. Thirty-two new or continuing conservation and restoration grants totaling \$9.52 million were awarded. The thirty-two awards announced generated \$12 million in match from the grantees, providing a total conservation impact of more than \$21 million.

The Delaware Watershed Conservation Fund supports projects that conserve and restore natural areas, corridors, and waterways on public and private lands to support native migratory and resident wildlife and fish, and native plants; and to contribute to the social health and economic vitality of the communities in the Delaware River watershed. These grants address priorities in NFWF's Delaware River Watershed Business Plan.

The fund was launched in 2018 to bring together various stakeholders to deliver restoration and conservation efforts throughout the Delaware River Watershed to strategically improve fish and wildlife habitat, grow partner capacity, build networks, and improve project efficiency and focus on a basin-wide scale.

#### Dam Removal Planning for the Pequest River (NJ)

Grantee: The Nature Conservancy
Grant Amount:\$307,368
Matching Funds:\$307,368
Total Project:\$614,735
Develop engineering designs and permitting for two dam
removals on the Pequest River in New Jersey. Project will
produce two shovel-ready projects to remove the first two
blockages on the Pequest river, which will ultimately reduce
local flooding and open the river for migratory fish passage.

#### Connecting and Restoring Bog Turtle Habitat in Southern New Jersey (NJ)

Grantee: New Jersey Audubon Society

#### Dam Removal and Streambank Restoration in Durham Township (PA)

Grantee: Wildlands Conservancy, Inc.

Grant Amount:......\$105,000 Matching Funds:.....\$107,100 Total Project: .....\$212,100 Remove a dam and complete streambank replanting in Durham Township, Pennsylvania. Project will restore 3.5 miles of stream, mitigate streambank erosion, flooding and water quality issues while benefitting key species including American eel, freshwater mussels and native fish species such as brook trout.

# Developing a Water Trail and Recreational Programming in Camden (NJ)

Grantee: Upstream Alliance

#### Improving Wildlife and Aquatic Habitat in Glenolden Community Park (PA)

Grantee: Glenolden Borough	
Grant Amount:\$17	75,000
Matching Funds:\$22	20,257
Total Project: \$3	95,257



**Bog turtle** 

Stabilize 550 linear feet of streambank, establish a riparian buffer and redirect flows from a 48-foot stormwater pipe to a wetland in Glenolden Community Park, Philadelphia. Project will become a feature of the park that provides valuable water quality and habitat improvements in the area and is made possible through a robust partnership between the Borough and eight other municipalities as well as several nonprofit organizations and county agencies.

#### Hoffman's Mill Dam Removal (PA)

Grantee: Brandywine Conservancy & Museum of Art
Grant Amount: \$151,723
Matching Funds: \$151,723
Total Project: \$303,446
Complete removal of a minimally breached low-head
dam along the Brandywine, resulting in improved aquatic
habitat and the restoration of free-flowing waters across
the full width of Brandywine Creek. Project will build upon
dam removal efforts downstream in the State of Delaware
and contribute to efforts to restore migratory shad to the
Brandywine after a 200-year absence.

# Automated Acoustic Monitoring of Focal Bird Species in the Delaware River Watershed (PA)

Grantee: University of Pittsburgh

Grant Amount:\$162	,194
Matching Funds:\$167	,375
Total Project:\$329	,569
Deploy 600 automated acoustic recorders to monitor	
populations of golden-winged warbler, wood thrush, ceru	lean

#### **2021 GRANT SLATE**

warbler, and four additional bird species in five dynamic forest restoration blocks located in the Delaware River watershed. Project will analyze the recordings with machine learning species classifiers and expert human listeners, estimate species occupancy and abundance at each site, and develp a handbook and new software interface for partners in the watershed.

# Development of a Targeted Watershed Assessment Report and Restoration Plan in Avondale Borough (PA)

Grantee: White Clay Watershed Association

# Sacred Grounds Program: Installing Pollinator Gardens and Engaging Communities of Faith (DE)

Grantee: National Wildlife Federation

Grant Amount:.....\$237,426 Matching Funds:.....\$237,426 Total Project: .....\$474,852 Implement National Wildlife Federation's Sacred Grounds program in Wilmington, Delaware. Project will not only increase pollinator habitat and stormwater best management practices, but also engage the untapped faith community to connect with and recreate in nature, building an environmental stewardship ethic that is beneficial to fish, wildlife, and people.

# Development of a Neversink Watershed Management Plan (NY)

Grantee: Sullivan County

# Protecting Eastern Brook Trout Habitat through Invasive Management in the Beaverkill Valley (NY)

Grantee: Catskill Mountainkeeper

Grant Amount: \$75,000
Matching Funds: \$75,422
Total Project:
Leverage a unique partnership of state, local and academic



**Freshwater mussels** 

stakeholders to employ research-based best management practices and implement novel eDNA tools to combat hemlock woolly adelgid forest pest and maintain trout habitat and recreation opportunities at a popular public access site in the Beaverkill Valley. Project will develop tools that represent a tremendous gain in the effort to control hemlock woolly adelgid and will be transferable to other terrestrial invasive species programs.

# Linking Up the Landscape: Connecting Recreation to Conservation in the Musconetcong Watershed (NJ)

Grantee: Musconetcong Watershed Association
Grant Amount:\$362,149
Matching Funds: \$523,129
Total Project: \$885,278
Create an online map with the location of recreational access
points, and the cultural and historic resources that give this
part of the Delaware Watershed a unique regional identity.
Project will complete a timely visitor readiness assessment,
watershed-wide interpretive plan, and install access point
signs with QR codes linked to the map for the new National
Water Trail.

#### Stream Restoration in the Mud Run Watershed (PA)

Grantee: Wildlands Conservancy, Inc.
Grant Amount:
Matching Funds: \$75,240
Total Project:\$150,353
Remove an obsolete dam, stabilize the streambanks, and
establish new riparian buffer areas at two critical locations
in the Mud Run Watershed, Pennsylvania. Project will restore
free-flowing conditions, improve habitat and water quality for
native trout populations, and filter pollutants and nutrients
from stormwater runoff from roadways adjacent to the
stream through installation of riparian buffer plantings.

#### 2021 GRANT SLATE

#### Assessment of Northern Snakehead Feeding in the Delaware River Estuary (NJ, PA)

# Developing Wild Trout Conservation Portfolio for New Jersey's Delaware Basin (NJ)

Grantee: Trout Unlimited, Inc.

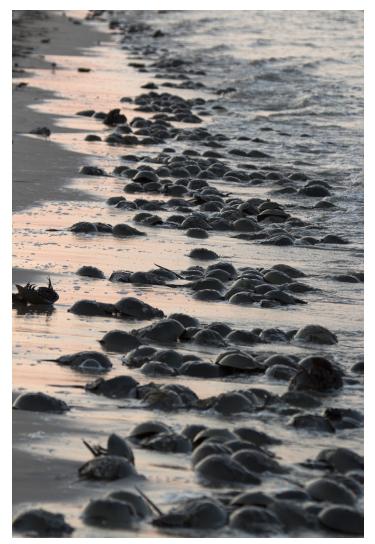
Grant Amount:.....\$75,564 Matching Funds:.....\$75,848 Total Project: ....\$151,412 Produce wild trout conservation plans for the Delaware Basin in northwestern New Jersey following Trout Unlimited's finescale Conservation Portfolio approach. Project will identify explicit protection and habitat restoration priorities needed to maintain and expand wild trout populations in New Jersey and will showcase novel, transferable methods that increase the efficiency and accuracy of baseline data collection for fine-scale portfolio development in other brook trout priority areas.

# The Philadelphia Pollinator Project: Working at the Intersection of Community and Conservation (PA)

Grantee: National Audubon Society, Inc.

# Restoration of American Shad and Fish Passage on the Brandywine River (DE)

Grantee: Brandywine Shad 2020



Horseshoe crabs, Slaughter Beach, Delaware Bay

that lead to flooding and help reduce risk to public safety while increasing in aquatic habitat diversity and water quality.

# Kimbles Beach Restoration and Shoreline Stabilization (NJ)

Grantee: American Littoral Society
Grant Amount:\$560,800
Matching Funds:\$561,849
Total Project: \$1,122,649
Continue restoration of Kimbles Beach shorebird and
horseshoe crab habitat in Cape May County, New Jersey.
Project will advance the comprehensive conservation and
restoration of highly vulnerable and valuable Bayshore beach
habitat critical for horseshoe crabs and shorebirds by using
strategies that will further reduce erosion and increase
resilience to storms and climate change.

#### Developing a Watershed Restoration Plan for the Lower West Branch Red Clay Creek Watershed (PA)

Grantee: Brandywine Red Clay Alliance

#### Evaluating Outcomes of Coastal Salt Marsh Intervention Efforts (DE, NJ, PA)

Grantee: Partnership for the Delaware Estuary, Inc.

Grant Amount:\$300,000
Matching Funds:\$341,032
Total Project: \$641,032
Develop the Marsh Futures Ecological Mapper system to
provide landscape-level evaluation of changes to key salt marsh
ecosystem services of proposed habitat-specific restoration
efforts. Project will fill a vital evaluation gap in protecting
coastal marshes by providing a mechanism to understand how
specific intervention efforts can either support or diminish
landscape-level ecosystem services of salt marshes with
applicability across the Atlantic Coast.

# Supawna Meadows National Wildlife Refuge Tidal Marsh Restoration (NJ)

Grantee: Ducks Unlimited, Inc.

Grant Amount:\$75	0,000
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#### John Heinz National Wildlife Refuge Henderson Marsh Restoration (PA)

Grantee: Ducks Unlimited, Inc.

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Grant Amount:
Matching Funds:
Total Project:
Restore the hydrology of 150 acres of tidal marsh habitat
in the U.S. Fish and Widlife Service's tidally restricted
Henderson Marsh at John Heinz National Wildlife Refuge.
Project will improve marsh function to reduce flooding
in local underserved communities, enhance and expand
recreational opportunities for kayaking and fishing, and
increase public access for environmental education of diverse
audiences.

#### Water Management Studies to Inform Basin-wide Resource Planning (DE, NJ, NY, PA)

# Streambank Stabilization in the Upper Musconetcong River Watershed (NJ)

Grantee: Lake Hopatcong Commission

**Improving Public Access and Recreation in the Pennsylvania Portion of the Delaware River - II** Grantee: The Pennsylvania Fish and Boat Commission

**Delaware River** 



Red knots

# Dam Removal in the White Clay Creek (DE)

Grantee: New Castle Conservation District

Grant Amount:\$179,520
Matching Funds:\$184,520
Total Project:
Remove a highly visible stone dam on the White Clay Creek
in New Castle County, Delaware, restoring the indigenous
ecosystem and habitat for aquatic animals and wildlife.
Project will restore 1 mile of river hydrology and stream
habitat and reconnect 9.2 miles of streambed, enabling shad
and herring to spawn in the future while restoring riparian
habitat essential to benthic organisms and neotropical
warblers.

# Paper Mill Dam Removal and Restoration (PA)

Grantee: American Rivers, Inc.

Grant Amount:\$154,314
Matching Funds:\$300,000
Total Project: \$454,314
Remove the Paper Mill Dam and restore the adjacent riparian
corridor in Reading, Pennsylvania. Project will restore river

flows and natural processes in Cacoosing Creek, benefit local fisheries, improve recreation, eliminate outdated infrastructure, remove a public safety hazard, and restore native riparian vegetation.

# Developing a Forest Stewardshp Plan for the White Lake Natural Resource Area (NJ)

Grantee: New Jersey Audubon Society Grant Amount: \$77,640 Matching Funds: \$227,815 Total Project: \$305,455 Develop a State Approved Forest Stewardship Plan for the White Lake Natural Resource Area, located in Warren County, New Jersey. Project will enable the county to effectively and efficiently manage invasive species, improve wildlife habitat, and ensure forest and watershed health at this preserved property.

# Willowemoc Trout Habitat Improvement (NY)



Golden-winged warbler

# A Riverfront Classroom on the Schuylkill: Community Engagement in Southwest Philadelphia (PA)

Grantee: John Bartram Association

Grant Amount:
Construct a new watershed education facility to complement the forthcoming freshwater mussel hatchery at Bartram's
Garden with the Partnership for the Delaware Estuary in Philadelphia, Pennsylvania. Project will provide unparalleled
hands-on opportunities for public and K–12 watershed education, focusing on community access and youth-driven, collaborative stewardship.

# Developing Propagation and Rearing Methods for Freshwater Mussels in the Lower Delaware River Basin

Grantee: Partnership for the Delaware Estuary, Inc.

# Restoring Dynamic Forest Structure for Priority Birds in the Delaware River Watershed: Phase V (PA)