



**Chesapeake Bay Program**  
A Watershed Partnership

# Backgrounder

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**The Chesapeake Bay Small Watershed Grants Program provides grants to organizations working on a local level to protect and improve watersheds in the Chesapeake Bay basin, while building citizen-based resource stewardship.**

**Under the 2005 program, 88 projects from across the Bay watershed have been selected to receive \$3.06 million in funding.**

**Primary program funding is provided by the U.S. Environmental Protection Agency's Chesapeake Bay Program Office. Additional funding partners include the USDA Forest Service, the National Oceanic and Atmospheric Administration, the USDA Natural Resources Conservation Service, the Chesapeake Bay Trust and the Keith Campbell Foundation for the Environment.**

## 2005 Chesapeake Bay Small Watershed Grants Projects

### Chesapeake Bay Small Watershed Community Legacy Grants Initiative

This year's Small Watershed Grants Program continues the Community Legacy Grants initiative, whereby grants of up to \$100,000 are awarded to innovative projects that will create a conservation legacy in communities throughout the Chesapeake Bay watershed.

As envisioned under the *Chesapeake 2000* agreement, this legacy includes abundant, diverse populations of fish, wildlife and plants, fed by healthy streams and rivers, sustaining strong local and regional economies and our unique quality of life.

#### 2005 Community Legacy Grants Recipients

##### Lower Susquehanna Watershed Partnership

*Chesapeake Bay Foundation, Inc.*

South-Central Pa.

Community Legacy Grant: \$100,000

Partner Contributions: \$664,447

The Chesapeake Bay Foundation will advance riparian forest buffer restoration in south-central Pennsylvania in concert with a broad spectrum of partners, including conservation districts, watershed groups and Natural Resources Conservation Service field offices. This project will restore 71 miles of riparian forest buffer along the Lower Susquehanna, Lower Susquehanna West and Juniata rivers. Additionally, a series of forums and policy discussions will help ensure the exchange of technical information among resource professionals working to restore riparian forested buffers. Funding will be provided in part by the Commonwealth of Pennsylvania, USDA Forest Service and USDA Natural Resources Conservation Service.

##### Cypress Branch Atlantic White Cedar Bog Restoration

*Severn River Association, Inc.*

Anne Arundel County, Md.

Community Legacy Grant: \$100,000

Partner Contributions: \$1,436,000

The Severn River Association will restore a 12-acre Atlantic white cedar wetland ecosystem by removing 1,000 cubic yards of sediment fill, eradicating invasive species and replanting the site with 10,000 stems of Atlantic white cedar. A 1-mile-long sandy berm also will be created to ensure proper drainage. Restoration of the wetland will create habitat for yellow perch and other wetland-dependent species. Five hundred students from six area schools will help propagate the cedar stems. Project partners will include the Alliance for Community Education, Anne Arundel County Outfall Restoration, Arlington Echo Outdoor Education

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Center, the Chesapeake Bay Trust, Clean Water Action, the Crownsville Conservancy, the Maryland State Highway Administration, the Lower Western Shore Tributary Team and the following elementary schools: Southgate, Millersville, George Cromwell and Georgetown; and Chesapeake and Annapolis Middle schools. Funding will be provided in part by the USDA Forest Service.

### **McCoy-Linn Dam Removal, Habitat Restoration and Public Access**

*ClearWater Conservancy of Central Pennsylvania, Inc.*

Centre County, Pa.

Community Legacy Grant: \$100,000

Partner Contributions: \$223,600

The ClearWater Conservancy of Central Pennsylvania, Inc. will remove McCoy-Linn Dam on Spring Creek. In addition, this project will stabilize 4,000 linear feet of stream bank, restore 4,000 linear feet of forested riparian buffer, 4,000 linear feet of free-flowing stream habitat and 1.5 acres of wetlands. Two miles of upstream habitat for fish also will be opened by the removal of the dam, and 6 to 12 fish habitat enhancement structures will be installed. Project partners will include American Rivers, the ClearWater Conservancy, the Pennsylvania Department of Environmental Protection, the Pennsylvania Fish and Boat Commission, Trout Unlimited, the U.S. Environmental Protection Agency and the U.S. Fish and Wildlife Service.

### **Using Conservation Incentives to Help Farmers Reduce Nutrients in the Chesapeake Bay Watershed**

*American Farmland Trust*

Lancaster and Blair Counties, Pa.

Community Legacy Grant: \$85,000

Partner Contributions: \$85,300

The American Farmland Trust will enroll farmers in pilot programs to reduce nitrogen and phosphorus use and thereby reduce the amount of these nutrients entering the Bay. Program goals call for the enrollment of least 250 acres in 2005 and 1,000 acres in 2006. Farmers in these programs will reduce their application of nitrogen and phosphorus to the level of their Enhanced Nutrient Management plan, or below, if possible. If a farmer's yield drops due to nutrient management practices, the loss will be covered by guarantee. Project partners will include the Town Creek Foundation, the Laurel Foundation, the R. K. Mellon Foundation and the Chesapeake Bay Trust. Funding will be provided in part by the USDA Natural Resources Conservation Service.

### **Lake Monticello Stream Restoration Demonstration Project**

*Lake Monticello Owners' Association*

Lake Monticello, Fluvanna County, Va.

Community Legacy Grant: \$63,000

Partner Contributions: \$53,600

The Lake Monticello Owners' Association will restore the banks of several small streams that feed into the lake's Jackson Cove. At least 1,000 feet of streams will be restored using bioengineering techniques such as toe protection, grade controls (cross-vanes), bank shaping, joint plantings and buffer enhancement. Restoration will result in reduced sediment export, stable banks and improved stream habitat. The project's outreach component will include articles about stream restoration in three local publications, at least three public service spots featuring the restoration projects and one interview on a local cable TV station. Project partners will include Thomas Jefferson Soil and Water District and the Williamsburg Environmental Group.

## 2005 Chesapeake Bay Small Watershed Grant Recipients

Grants are listed by jurisdiction. Projects with activities in more than one state or the District of Columbia are listed under each jurisdiction.

**District of Columbia****ASLA Headquarters Green Roof**

*American Society of Landscape Architects*

Washington, DC

Small Watershed Grant: \$25,000

Partner Contributions: \$150,000

The American Society of Landscape Architects (ASLA) will install a 3,000-square-foot green roof atop their building headquarters located at 636 Eye St., NW, Washington, DC 20001. Key outcomes of the project will include the collection of data on the ability of a green roof to mitigate storm water runoff as well as information on design, installation and maintenance requirements for an urban green roof in Washington, DC, including soil depths and mixtures and the success or failure of particular plant species. The project also will educate the landscape design and construction community and other business leaders about green roofs.

**BayScapes and Schoolyard Habitats for the Oxon Run Watershed**

*District of Columbia Department of Parks and Recreation*

Washington, DC

Small Watershed Grant: \$24,000

Partner Contributions: \$106,000

The District of Columbia Department of Parks and Recreation will host four to six workshops and create three to five demonstration gardens (up to 2.5 acres each) to educate residents and community leaders in the Oxon Run watershed about topics such as habitat restoration and conservation landscaping. Students and teachers at two public schools adjacent to Oxon Run Park will create habitat restoration projects on school grounds. Project partners will include area churches, the Casey Trees Foundation, the District of Columbia Department of Health, the District of Columbia Water and Sewer Authority, Friends of Oxon Run Park, Greater Southeast Community Hospital, the National Park Service, the Petey Greene Center, the University of the District of Columbia, the US Fish and Wildlife Service Chesapeake Bay Field Office, Washington Parks and People and William C. Smith Property Management Company.

**Growing Native: Get Nuts for Clean Water Initiative and 2005 Fall Seed Collection Season**

*Potomac Conservancy*

Virginia, Maryland, Pennsylvania and District of Columbia

Small Watershed Grant: \$40,000

Partner Contributions: \$338,400

The Potomac Conservancy will collect native hardwood tree seeds to replenish native seedling stock at state nurseries in Virginia and Maryland. Full-service seed drop-off stations will be established at locations throughout the Potomac watershed. Project partners will include Aveda, the Maryland Department of Natural Resources, the Pennsylvania Department of Environmental Protection, the Potomac Watershed Partnership and the Virginia Department of Forestry. Funding will be provided by the USDA Forest Service.

**Delaware****Streamside Buffer Conservation and Restoration Project**

*Sussex Conservation District*

Georgetown, Del.

Small Watershed Grant: \$45,000

Partner Contributions: \$82,400

The Sussex Conservation District will coordinate a comprehensive effort to increase the amount of riparian buffer habitat within the portion of the Nanticoke River watershed located in Sussex County, Delaware. Demonstration sites totaling 35 acres will be created and assessments of 700+ miles of stream corridors will be completed. Buffers improve the quality of water and habitat for aquatic species by significantly reducing the amount of sediment and nutrients entering the Bay. Project partners will include Delaware Department of Natural Resources, Nanticoke Watershed Alliance, Sussex Conservation District and University of Delaware. Funding provided by the USDA Forest Service and the USDA Natural Resources Conservation Service.

**Maryland****Meadow Restoration Project**

*Adkins Arboretum, Ltd.*

Ridgely, Md.

Small Watershed Grant: \$25,000

Partner Contributions: \$111,393

The Adkins Arboretum will restore the current impervious parking lot (1.25 acres) at the Arboretum Visitor's Center as a demonstration native meadow totaling two acres. The purpose is to reduce sediment and pollutant runoff from the parking area into local streams, promote the use of a natural drainage system including vegetative swales and buffers and filtration gardens of native trees, shrubs, grasses and perennials. The site also will serve as an educational tool for demonstrating to local residents, visitors, community officials and land experts the value and effectiveness of bio-retention techniques, as well as the importance of native meadows in providing wildlife habitat. Project partners will include the Caroline County Commission, the Maryland Department of Natural Resources and Tuckahoe State Park.

#### **Restoration of Mill Creek Tributary At Dulls Corner**

*Anne Arundel County*

Annapolis, Md.

Small Watershed Grant: \$50,000

Partner Contributions: \$500,000

Anne Arundel County will restore stream channels and a riparian forest near the intersection of Maryland highways 648 and 179 in Anne Arundel County, Maryland. Project outcomes include 2,080 feet of restored stable stream with reduced sediment supply to Mill Creek. This project will also replant 2.03 acres of riparian wetlands. Partners will include the Arlington Echo Education Center, Brightwater, Inc., the Chesapeake Bay Trust, Martin's Cove Farm Association home owners, the Maryland State Highway Administration and OUTREACH. Funding will be provided by the USDA Natural Resources Conservation Service.

#### **Beaver Creek Habitat Restoration Project**

*Beaver Creek Watershed Association, Inc.*

Washington County, Md.

Small Watershed Grant: \$35,000

Partner Contributions: \$87,735

The Beaver Creek Watershed Association, Inc. will restore 1,700 feet of Beaver Creek by using natural stream channel stabilization techniques. Restoration will create improved habitat for trout and forage fish as well as macroinvertebrates. This restoration will complement the 900 feet of stream already restored by the Beaver Creek Watershed Association under a previous Small Watershed Grant. Volunteers from partner organizations and local high schools will help plant native stream bank vegetation. Project partners will include the Antietam Fly Anglers, the Chesapeake Bay Foundation, Environmental Services Inc, Mallot HB Estate Inc., the Maryland Department of Natural Resources, the Mid-Atlantic Council Federation of Fly Fishers, Trout Unlimited and the Washington Soil and Water Conservation District.

#### **Nutrient Reduction Implementation Strategy for Mill Creek Watershed**

*Calvert County Government*

Calvert County, Md.

Small Watershed Grant: \$40,000

Partner Contributions: \$128,410

The Calvert County Government will implement a multi-faceted nutrient reduction strategy for the Mill Creek watershed and its tributaries in southern Calvert County. Reductions in nutrients from septic systems and lawn fertilizers will be emphasized. An innovative biological nutrient control system using native Chesapeake Bay oysters will be tested in the Mill Creek watershed with the goal of removing nitrogen from the waters. Project partners will include the Chesapeake Biological Laboratory, Circle C Oyster Ranchers Association, the Maryland Cooperative Extension, the Mill Creek Watershed Workgroup and the University of Maryland Center for Environmental Science.

#### **Storm Water Abatement Initiative - II**

*Chesapeake Bay Foundation, Inc.*

Maryland, Pennsylvania and Virginia

Small Watershed Grant: \$40,000

Partner Contributions: \$58,180

The Chesapeake Bay Foundation, Inc. will enhance the capacity of watershed groups and local governments in Maryland, Pennsylvania and Virginia to strengthen the implementation of storm water management programs at the local and state levels. A strategy for the enactment of a storm water utility fee by a local government will be developed, along with the provision of direct technical assistance to organizations promoting effective storm water programs. A generic set of storm water recommendations also will be produced, based on varying levels of development (rural, suburban and urban) to be used by organizations across the Chesapeake Bay watershed. Project partners will include Bruce A. Gilmore, the Chesapeake Bay Foundation and the Keith Campbell Foundation for the Environment.

#### **Monocacy and Catoctin Watershed Restoration Partnership**

*Chesapeake Wildlife Heritage*

Frederick County, Md.

Small Watershed Grant: \$40,000

Partner Contributions: \$64,600

The Chesapeake Wildlife Heritage, in partnership with the Thorpe Foundation and the Catoctin Land Trust, will improve water quality, increase wildlife habitat and protect open space by working with citizens and landowners in Frederick County. Outcomes of this project will include the restoration of 100 acres of grassland and riparian buffers,

the permanent protection of 100 acres through conservation easements and establishing a 5-acre meadow demonstration site. Landowners will learn about habitat restoration and conservation easements through workshops and mailings. Other project partners will include Biophilia Foundation, the Tucker Foundation and the USDA Natural Resources Conservation Service.

### **Back Creek Park (Md.) Living Shoreline**

*City of Annapolis*

Annapolis, Md.

Small Watershed Grant: \$49,824

Partner Contributions: \$50,000

'Living shoreline' techniques use natural vegetation and other organic materials to stabilize eroding coastlines, restoring valuable wildlife habitat while protecting shorelines from further erosion. The City of Annapolis will complete a living shoreline and storm water erosion control project at the Back Creek Nature Park. The park has approximately 1,000 feet of shoreline, most of which is highly degraded. The shoreline project will replace lost organic material and plant intertidal and shoreline vegetation. The city plans to hold a workshop for citizens that will focus on living shorelines. Volunteers will be involved in the shoreline plantings. Project partners include the Chesapeake Bay Foundation, the Maryland Department of Natural Resources and Friends of Back Creek Nature Park. Funding provided by the Chesapeake Bay Trust.

### **Implementing Environmentally Sensitive Development Practices at the Confluence of the Monocacy and Potomac Rivers**

*Community Commons, Inc.*

Frederick County, Md.

Small Watershed Grant: \$30,000

Partner Contributions: \$24,800

Community Commons, Inc. will implement three 'low-impact' retrofits on existing buildings and grounds at a 138-acre historic farm and barn at the confluence of the Monocacy and Potomac rivers in the Chesapeake and Ohio Canal National Historic Park. The low-impact technologies will include installations of a green roof, rain garden, rain barrel and a composting toilet. Educational signs will be posted and fact sheets will be developed and disseminated among the community. Project partners will include Frederick County and the National Park Service.

### **Frederick County (Md.) Watershed Conservation**

*Frederick County Commissioners, Division of Public Works*

Frederick County, Md.

Small Watershed Grant: \$40,000

Partner Contributions: \$135,800

The Frederick County Commissioners, Division of Public Works will work to improve water quality in the Linganore watershed by facilitating the installation of 5 miles of riparian buffers and by conducting outreach to citizens through educational initiatives. Educational signs will be posted throughout the watershed, newsletters will be produced and mailed and citizens will be engaged in nutrient management planning efforts. In addition, a stream naming project will invite Linganore High School students to name the 160 miles of unnamed tributaries. Project partners will include the Maryland Department of Natural Resources and Versar, Inc. Funding provided in part by the USDA Forest Service.

### **Blackwater River Wetland, Fisheries and Watershed Restoration**

*Friends of Blackwater National Wildlife Refuge*

Dorchester County, Md.

Small Watershed Grant: \$50,000

Partner Contributions: \$250,000

The Friends of Blackwater National Wildlife Refuge will help to restore 671 acres of freshwater marsh by creating a hydrologic barricade where Stewart's Canal meets Parson's Creek on refuge lands. This project will reduce water salinity in the headwaters of the Blackwater River by ending exposure to the brackish Little Choptank River. Volunteers will help assess the responses of anadromous fish and wetland plants to the restoration. Partners include the Maryland Department of Environment, the Maryland Department of Natural Resources, the U.S. Geological Survey and the U.S. Fish and Wildlife Service. Funding provided by the National Oceanic and Atmospheric Administration.

### **Developing and Implementing Subwatershed Action Plans in the Herring Run/Back River Watershed, Phase II**

*Herring Run Watershed Association*

Baltimore, Md.

Small Watershed Grant: \$40,000

Partner Contributions: \$44,265

The Herring Run Watershed Association will continue to implement three subwatershed restoration plans for Biddison Run, Moores Run and the western branch of Herring Run. This project also will develop a subwatershed assessment and action plan for Redhouse Run and conduct a storm water retrofit inventory of Baltimore City. Final products include the implementation of at least seven small-scale watershed restoration projects, the planting of 1 acre of riparian trees per watershed (a total of 3 acres) and the creation of at least one rain garden as a

community demonstration project. One or more rain barrel creation and giveaway workshops will be conducted, with three community presentations and three newsletter articles given in Moores/Biddison Run and Western Branch subwatersheds. Ten volunteers will be trained to help with this project. Project partners will include the Baltimore City Department of Public Works Environmental Service Division, the Baltimore County Department of Environmental Protection and Resource Management, the Center for Watershed Protection and the Chesapeake Bay Trust. Funding will be provided in part by the USDA Forest Service.

**Northeast Branch, Phase I: Indian Creek and Upper Beaverdam Creek Herring Restoration and Outreach**

*Metropolitan Washington Council of Governments*  
Beltsville, Md.

Small Watershed Grant: \$39,000  
Partner Contributions: \$32,162

The Metropolitan Washington Council of Governments will remove two blockages preventing the passage of anadromous fish in Upper Beaverdam Creek. Volunteers will help plant 0.5 acres of forested buffer and stabilize 100 linear feet of stream bank. Project partners will include the Beltsville Agricultural Research Center, the District of Columbia Department of Health--Fisheries and Wildlife Division, the Maryland Department of Natural Resources and the Maryland-National Capital Park and Planning Commission. Funding will be provided by the USDA Forest Service and the National Oceanic and Atmospheric Administration.

**Western Maryland Stream Corridor Conservation**

*Mid-Maryland Land Trust Association, Inc.*  
Frederick and Washington counties, Md.

Small Watershed Grant: \$25,000  
Partner Contributions: \$3,702,800

The Mid-Maryland Land Trust Association will work with local landowners to encourage the conservation of farms and forest lands using easements. Four community outreach programs and six neighborhood home meetings will be held for property owners in the Catoctin Creek and Antietam Creek watersheds. A series of four newspaper articles, two local interest articles, one feature article in a local monthly magazine and one public television documentary special will feature the need for land, forest and watershed conservation. Project partners will include the Chesapeake Bay Trust, the USDA Natural Resource Conservation Service, the Frederick County Government, the Maryland Department of Natural Resources, the Maryland Environmental Trust, the Transportation Enhancement Act Program, the US Department of

Agriculture Farm and Ranch Land Protection Program and the Washington County Government.

**Rainscapes Program**

*Montgomery County, Md.*

Montgomery County, Md.

Small Watershed Grant: \$17,600

Partner Contributions: \$55,200

Montgomery County, Maryland will support outreach workshops and low-cost, small urban storm water control demonstration projects in watersheds targeted for restoration. Workshops participants will construct demonstration projects that will provide at least 1,000 cubic feet of storage and control 0.5 inches of runoff from up to 21,000-square-feet of impervious areas. Each constructed project will include an informational sign and a long-term maintenance program with clearly identified responsible parties. Project partners will include Bradley Hill Presbyterian Church, Chevy Chase Village, the City of Kensington, the Maryland Department of Environmental Protection and Montgomery County Public Schools.

**Bringing Back Buffers II**

*National Audubon Society*

Easton, Md.

Small Watershed Grant: \$16,900

Partner Contributions: \$8,000

The National Audubon Society will restore a 30-foot-wide buffer along 550 feet of stream in Easton, Maryland. Volunteers will help plant the buffer and monitor water quality and habitat use by wildlife. In addition, 12 seminars will be offered to the public to increase awareness among volunteers and community members about the negative effects of invasive species on the Bay ecosystem. Partners will include the Pickering Creek Audubon Center. Funding will be provided by the National Oceanic and Atmospheric Administration.

**Baltimore Partnership for Schoolyard Habitat and Stormwater Management Plan for Baltimore City Public Schools**

*Parks and People Foundation*

Baltimore City, Md.

Small Watershed Grant: \$25,000

Partner Contributions: \$128,000

The Parks and People Foundation will create a practical habitat and watershed restoration plan for Baltimore's public school properties and facilities, in partnership with the Baltimore City Public School System. Project partners will include Baltimore City's Department of Public Works, the Living Classroom Foundation, the Maryland Department of Natural Resources, the Neighborhood

Design Center and the USDA Forest Service. Funding will be provided by the USDA Forest Service.

### **Improving Stormwater Quality in Baltimore's Historic West-Side District**

*Parks and People Foundation*

Baltimore City, Md.

Small Watershed Grant: \$40,000

Partner Contributions: \$256,500

The Parks and People Foundation will work closely with community organizations and residents to help organize a watershed organization serving the predominately African American community in historic West Baltimore. Community members will be actively involved in efforts to implement the Watershed 263 Restoration Plan, which will improve both water quality and community quality of life. Project partners will include the Baltimore City Department of Public Works, the Center for Watershed Protection and the Water Quality Management Office.

### **Potomac Headwaters Conservation Initiative**

*Potomac Conservancy*

Allegany and Garrett counties, Md.; Hampshire, Hardy, Grant, Mineral and Pendleton counties, W. Va.

Small Watershed Grant: \$50,000

Partner Contributions: \$252,000

The Potomac Conservancy will protect up to 900 acres of forested riparian land in the Potomac Headwaters region, specifically 400 acres in the Cacapon and Lost River watershed and 500 in the South Branch watershed. The project will create a community resource protection strategy through education, research and outreach. Maps detailing forest areas critical to water quality will be developed, as well as a database of landowners in key areas. Four workshops for up to 75 West Virginia landowners will be held, and 50 West Virginia professionals (attorneys, appraisers, accountants and realtors) will be educated about permanent land protection for their clients. Project partners will include the Maryland Cooperative Extension Service, Timberland Consulting, the Town Creek Foundation, the WestWind Foundation and the West Virginia Department of Natural Resources. Funding will be provided by the USDA Forest Service.

### **Bennett Creek Restoration Initiative: Phase I, Community Engagement**

*Potomac Conservancy*

Fredrick County, Md.

Small Watershed Grant: \$20,000

Partner Contributions: \$1,700

The Potomac Conservancy will work to improve the conditions of 22 inadequate riparian forest buffers and

stream bank erosion sites in the headwaters of Fahrney Branch and Pleasant Branch watersheds. Anticipated results include the restoration of 7,875 feet of forest buffers and 4,030 feet of eroded stream bank in the Pleasant Branch watershed. In addition, 53,190 feet of forest buffers, and 6,075 feet of eroded stream bank will be restored in the Fahrney Branch watershed. Project partners will include Ducks Unlimited, the Maryland Department of Natural Resources and USDA Forest Service. Funding provided by the USDA Forest Service.

### **Growing Native: Get Nuts for Clean Water Initiative and 2005 Fall Seed Collection Season**

*Potomac Conservancy*

Va., Md., Pa., DC

Small Watershed Grant: \$40,000

Partner Contributions: \$338,400

The Potomac Conservancy will collect native hardwood tree seeds to replenish native seedling stock at state nurseries in Virginia and Maryland. Full service seed drop-off stations will be established at locations throughout the Potomac watershed. Project partners will include Aveda, the Maryland Department of Natural Resources, the Pennsylvania Department of Environmental Protection, the Potomac Watershed Partnership and the Virginia Department of Forestry. Funding will be provided by the USDA Forest Service.

### **Protecting Critical Forested Areas in Anne Arundel County**

*Scenic Rivers Land Trust*

Anne Arundel County, Md.

Small Watershed Grant: \$25,000

Partner Contributions: \$46,250

The Scenic Rivers Land Trust will work to protect forested areas in Anne Arundel County, Maryland. Priorities will be established for conservation efforts, and education and outreach programs will actively engage landowners in conservation programs with a goal of creating conservation agreements on at least 400 acres. Project partners will include Anne Arundel County, the Bay Ridge Land Trust, the Coalition of Anne Arundel County Land Trusts, the Magothy River Land Trust, the North County Land Trust, the Maryland Environmental Trust and the South County Exchange.

### **Jefferson Patterson Park and Museum Living Shorelines Outreach**

*The Friends of Jefferson Patterson Park and Museum, Inc.*

Saint Leonard, Calvert County, Md.

Small Watershed Grant: \$9,150

Partner Contributions: \$14,000

'Living shoreline' techniques use natural vegetation and other organic materials to stabilize eroding coastlines, restoring valuable wildlife habitat while protecting shorelines from further erosion. The Friends of Jefferson Patterson Park and Museum will construct a series of web page interpretive exhibits on living shoreline treatments. These exhibits will explain how the numerous living shoreline treatments at the Jefferson Patterson Park and Museum were built, how these treatments have performed and what benefits and functions living shorelines provide in comparison with conventional shoreline stabilization techniques. Funding will be provided by the Chesapeake Bay Trust.

#### **St. Mary's City (Md.) Living Shoreline**

*The Historic St. Mary's City Commission*

St. Mary's City, Md.

Small Watershed Grant: \$39,260

Partner Contributions: \$58,260

'Living shoreline' techniques use natural vegetation and other organic materials to stabilize eroding coastlines, restoring valuable wildlife habitat while protecting shorelines from further erosion. The Historic St. Mary's City Commission will create a living shoreline along the heavily visited waterfront at the *Maryland Dove* dock, located on Millburn Creek in Historic St. Mary's City. The project includes creating a rock spur and adding sand and grass plantings to the waterfront. Project partners include the Historic St. Mary's City Commission and the St. Mary's County Soil Conservation District. Funding will be provided by the Chesapeake Bay Trust.

#### **Susquehanna Watershed Leadership Initiative**

*The Izaak Walton League of America*

Pa., N.Y. and Md.

Small Watershed Grant: \$25,000

Partner Contributions: \$355,470

The Izaak Walton League of America will continue to build the capacity of local communities to participate in watershed restoration and stewardship activities. Project outcomes will include five habitat enhancement or watershed stewardship workshops, the creation of fences along 50,000 linear feet of stream bank and the restoration and/or planting of riparian buffers along 6 miles of stream bank. Up to 125 community representatives will be taught how to restore and protect streams and wetlands. Project partners will include Altria Group, Inc., the U.S. Fish and Wildlife Service, the Hawksglen Foundation, the George and Miriam Martin Foundation, the Knapp Foundation, the National Tree Trust, the Oxford Foundation, the Izaak Walton League of New York, Pennsylvania and Maryland, the Pennsylvania Department of Environmental Protection, the Ressler Mill Foundation and the USDA Natural

Resources Conservation Service. Funding will be provided by the USDA Natural Resources Conservation Service.

#### **Expansion of Community-Based Wetland Restoration and Monitoring at Barren Island**

*The National Aquarium in Baltimore*

Barren Island, Dorchester County, Md.

Small Watershed Grant: \$30,000

Partner Contributions: \$41,100

The National Aquarium in Baltimore will implement community-based restoration and monitoring of 3 acres of tidal wetland at Barren Island. The project will include a five-day planting event at which 54,000 marsh plants will be installed. The event will include activities to train teachers, students and community volunteers in planting and monitoring techniques, as well as the importance of wetland restoration, watershed protection and the role of dredged materials in restoring shoreline habitats within the Chesapeake Bay ecosystem. Project partners will include the Army Corps of Engineers, the Association of Zoological Horticulture, the U.S. Fish and Wildlife Service, the Friends of Blackwater National Wildlife Refuge, the National Civilian Community Corps and the Chesapeake Bay Trust. Funding will be provided by the National Oceanic and Atmospheric Administration.

#### **Large-Scale Community-Based Planting and Monitoring at Poplar Island**

*The National Aquarium in Baltimore*

Talbot County, Md.

Small Watershed Grant: \$40,000

Partner Contributions: \$207,800

The National Aquarium in Baltimore will coordinate a multifaceted effort to involve the community in the restoration and monitoring of 6.4 acres of tidal wetlands on Poplar Island. This effort will include a large-scale planting event in the spring of 2005 to install over 170,000 plants during a two week period. It will also encompass many activities to train teachers, students and community volunteers in planting and monitoring techniques as well as in the importance of wetland restoration, watershed protection and the role of beneficial use of dredged material in the Chesapeake Bay. Project partners will include the Maryland Port Administration, the Maryland Department of Natural Resources and the United States Army Corps of Engineers.

#### **Prettyboy Watershed Forest Stewardship Campaign**

*Trust for Public Land*

Carroll and Baltimore counties, Md.; York County, Pa.

Small Watershed Grant: \$29,000

Partner Contributions: \$75,365

The Trust for Public Land, in partnership with Prettyboy Watershed Alliance, will implement restoration projects and conduct outreach to develop greater awareness of forestry stewardship opportunities among residents of the Prettyboy Watershed. Volunteers will conduct a survey of riparian buffer needs throughout the watershed and will restore 6 acres of riparian buffers. The recipient also will conduct a poetry and poster contest in local elementary schools. Project partners will include the Alliance for the Chesapeake Bay, the Baltimore County Department of Environmental Protection & Resource Management, the Chesapeake Bay Trust and Constellation Energy. Funding will be provided by the USDA Forest Service.

#### **Wave Attenuation by Living Shoreline Marshes**

*University of Maryland Center for Environmental Science, Horn Point Lab*

Cambridge, Dorchester County, Md.

Small Watershed Grant: \$45,000

Partner Contributions: \$79,148

'Living shoreline' techniques use natural vegetation and other organic materials to stabilize eroding coastlines, restoring valuable wildlife habitat while protecting shorelines from further erosion. The University of Maryland, Center of Environmental Science will conduct a field study to quantify the degree of wave attenuation provided by marsh vegetation under different physical and biological conditions and to present these data in a format that will be useful to land owners and coastal engineers. Products include a user-friendly manual and workshop for property owners and coastal engineers. This work will build on a previous study that analyzed the strengths and weaknesses of various methods for creating or restoring living shorelines. Funding will be provided in part by the Keith Campbell Foundation for the Environment and the Chesapeake Bay Trust.

#### **Watershed Financing Training for Local Officials**

*University of Maryland Foundation*

College Park, Md.

Small Watershed Grant: \$25,000

Partner Contributions: None

The University of Maryland Foundation will develop and pilot a training program for local officials and community leaders that will focus on how to implement watershed and natural resource protection plans in the face of limited fiscal resources and unlimited community demands. The goal of this project is to develop a template for a multimedia training tool that will highlight the importance of watershed planning and protection in local communities, and the role of local governments and elected officials in implementing and financing protection and restoration plans. Project partners will include the

Environmental Finance Center, the University of Maryland-Institute of Government Service. Other departments such as the Center for Smart Growth, the School of Public Policy, Landscape Architecture program and Sea Grant College will be engaged when appropriate.

#### **YMCA Camp Letts (Md.) Living Shoreline**

*YMCA of Metropolitan Washington*

YMCA Camp Letts, Anne Arundel County, Md.

Small Watershed Grant: \$50,000

Partner Contributions: \$180,000

'Living shoreline' techniques use natural vegetation and other organic materials to stabilize eroding coastlines, restoring valuable wildlife habitat while protecting shorelines from further erosion. The YMCA of Metropolitan Washington will create a living shoreline treatment along 850 linear feet of the Rhode River and Bear Neck Creek. This project will install a low-profile segmented stone sill and will plant a variety of marsh grasses and native plants, shrubs and trees where needed. It will result in the restoration of approximately 15,300 square feet of tidal marsh and 17,000 square feet of critical area buffer. Partners will include the Anne Arundel Soil and Water Conservation District, the Chesapeake Bay Trust, the Maryland Department of the Environment and the Maryland Department of Natural Resources. Funding will be provided in part by the Chesapeake Bay Trust.

#### **New York**

#### **Meads Creek Watershed Strategic Action Plan and Restoration**

*Schuyler County Soil and Water Conservation District*

Schuyler and Steuben counties, N.Y.

Small Watershed Grant: \$35,000

Partner Contributions: \$57,000

The Schuyler County Soil and Water Conservation District will encourage a long-term watershed ethic for the residents and government officials in the Meads Creek watershed. The District will help residents develop flood reduction strategies, with additional focus on reducing stream bank erosion and enhancing wetland conservation. Data collected will be incorporated into a watershed management plan. Project outcomes will include a 4-acre storm water attenuation wetland and 450 linear feet of stream stabilization for fisheries habitat. Project partners will include Environmental Emergency Services, the Izaak Walton League of America, the Southern Tier Central Regional Planning and Development Board, the Steuben County Soil and Water Conservation District, the Upper Susquehanna Coalition and the U.S. Geological Survey. Funding will be provided in part by the USDA Natural Resources Conservation Service.

**Susquehanna Watershed Leadership Initiative***The Izaak Walton League of America*

Pa., N.Y. and Md.

Small Watershed Grant: \$25,000

Partner Contributions: \$355,470

The Izaak Walton League of America will continue to build the capacity of local communities to participate in watershed restoration and stewardship activities. Project outcomes will include five habitat enhancement or watershed stewardship workshops, the creation of fences along 50,000 linear feet of stream bank and the restoration and/or planting of riparian buffers along 6 miles of stream bank. Up to 125 community representatives will be taught how to restore and protect streams and wetlands. Project partners will include the Altria Group, Inc., the U. S. Fish and Wildlife Service, the Hawksglen Foundation, the George and Miriam Martin Foundation, the Knapp Foundation, the National Tree Trust, the Oxford Foundation, the Izaak Walton League of New York, Pennsylvania and Maryland, the Pennsylvania Department of Environmental Protection, the Ressler Mill Foundation and the USDA Natural Resources Conservation Service. Funding will be provided by the USDA Natural Resources Conservation Service.

**Pennsylvania****Restoration of Lustig's Opossum Creek Segment***Adams County Trout Unlimited, Chapter 323*

Biglerville, Adams County, Pa.

Small Watershed Grant: \$6,100

Partner Contributions: \$6,400

Adams County Trout Unlimited Chapter 323 will repair 250 feet of stream bank and prevent future erosion and siltation of a 0.5 mile of stream bank through the use of bio-engineering techniques. Fish habitat structures and stream devices to funnel water flow to the main stream channel will also be installed, establishing 1,200 feet of stream habitat for fish, waterfowl and other aquatic wildlife. Project partners will include the Adams County Soil Conservation District, the McSherrytown Fish and Game Protective Association and the Watershed Alliance of Adams County.

**Cedar Run Dam Removal and Fish Passage Engineering***American Rivers Inc.*

Lower Allen Township, Cumberland County, Pa.

Small Watershed Grant: \$15,000

Partner Contributions: \$20,000

American Rivers Inc. will create engineering designs for five dams currently blocking fish passage and impairing

water quality on Cedar Run. These dams are projected to be removed in late fall 2005, providing a rapid and tangible example of water quality and habitat improvement in the watershed. Project partners will include the Alliance for the Chesapeake Bay, the Cumberland Valley Chapter of Trout Unlimited, the Pennsylvania Environmental Council, the Pennsylvania Fish and Boat Commission and the URS Corporation.

**Implementation of No-till and Cover Crop Use within the Piney Creek Watershed***Blair County Conservation District*

Blair County, Pa.

Small Watershed Grant: \$28,000

Partner Contributions: \$44,300

The Blair County Conservation District will work with landowners within the Piney Creek watershed to implement agricultural Best Management Practices (BMPs) which address the causes of soil erosion. Approximately 150 acres of farmland will become no-till and/or use cover crops. In addition, 5.5 acres of grassed waterways and diversions will be established to further reduce gully erosion. Project partners will include the Blair County Conservation District, the Pennsylvania Department of Environmental Protection, Trout Unlimited and the USDA-Natural Resources Conservation Service. Funding will be provided in part by the USDA Natural Resources Conservation Service.

**Willow Park Stream Restoration Project***Borough of Camp Hill*

Borough of Camp Hill, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$137,000

The Borough of Camp Hill will rehabilitate 1,400 feet of an urban stream in Camp Hill as part of the Cedar Run restoration initiative, a multi-municipal effort to restore a cold-water fishery in the Yellow Breeches watershed. This portion of the project will include public review of a preliminary concept plan, plan refinement and implementation of restoration measures that are designed to provide both public access to the stream corridor and improvements to downstream channels. Project partners will include the Alliance for the Chesapeake Bay and the Pennsylvania Environmental Council.

**Bradford County Stream Habitat Enhancement***Bradford County Conservation District*

Towanda, Pa.

Small Watershed Grant: \$25,000

Partner Contributions: \$300,000

The Bradford County Conservation District will enhance existing stream stabilization and restoration projects through the added incorporation of wildlife habitat best management practices. Cooperating watershed groups will be educated as to stream and riparian habitat improvement practices through a series of workshops. Participating watershed groups will then be eligible for cost-share funding on existing work sites as an incentive to incorporate habitat enhancements. Training will be provided to six watershed groups, at least 50 individuals, and best management practices will be designed for 10 sites. Project partners will include the Chesapeake Bay Foundation, the Pennsylvania Department of Conservation of Natural Resources, the Pennsylvania Department of Environmental Protection, the USDA Natural Resources Conservation Service and the U.S. Fish and Wildlife Service.

### **Centre County Chesapeake Bay Tributary Strategy**

*Centre County Conservation District*

Centre County, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$310,000

The Centre County Conservation District will install agricultural best management practices on two farms located in impaired sub-basins in Centre County, Pennsylvania. Working with six landowners, this project will install 1,000 linear feet of stream buffer and reduce the sediment and nutrient runoff from the farms to the impaired stream. Fencing will also be constructed along the Little Fishing Creek and Halfmoon Creek, as well as recruitment of landowners to construct fencing along Penns Creek and Slab Cabin Run. These fences will prevent animal access, although alternative water sources will be provided to the animals. A stabilized barnyard will be installed at the animal concentrated area, with the installation of gutters and downspouts above these areas. Trees and live stakes will also be planted at the stream bank, to increase vegetation. Project partners will include California University of Pennsylvania, Centre County Conservation District, USDA Natural Resources Conservation Service, Pennsylvania Department of Environmental Protection, participating landowners, Pennsylvania State University, Project Grass, State College Borough Water Authority and Western Pennsylvania Conservancy.

### **Sinnemahoning Creek Riparian Buffer Initiative**

*Cameron County Conservation District*

Emporium, Cameron County, Pa.

Small Watershed Grant: \$14,000

Partner Contributions: \$14,300

The Cameron County Conservation District will restore at least 12 acres (15,000 linear feet) of riparian forest habitat.

In addition, Technical assistance and tree seedlings will be provided to interested landowners who wish to create riparian buffers. Partners will include the Chesapeake Bay Foundation. Funding will be provided by the USDA Forest Service.

### **Chesapeake Bay Foundation Agricultural Stewardship Project**

*Chesapeake Bay Foundation*

Augusta and Rockingham counties, Va.;

Fulton County, Pa.

Small Watershed Grant: \$50,000

Partner Contributions: \$79,127

The Chesapeake Bay Foundation will provide financial cost-share support and associated outreach to farmers in targeted areas of the Potomac-Shenandoah Watershed in order to increase their capacity to reduce nutrient and sediment pollution. This project will increase on-the-ground conservation by helping enroll landowners in federal Farm Bill programs. At least 20 acres of wetlands and 13 miles of riparian buffer will be restored. Project partners will include the Chesapeake Bay Foundation, the USDA Natural Resources Conservation Service and the Shenandoah Resource Conservation and Development Council. Funding will be provided by the USDA Forest Service and the USDA Natural Resources Conservation Service.

### **Storm Water Abatement Initiative, Phase II**

*Chesapeake Bay Foundation*

Md., Pa. and Va.

Small Watershed Grant: \$40,000

Partner Contributions: \$58,180

The Chesapeake Bay Foundation will enhance the capacity of watershed groups and local governments in Maryland, Pennsylvania and Virginia to strengthen implementation of storm water management programs at the local and state levels. A strategy for the enactment of a storm water utility fee by a local government will be developed, along with the provision of direct technical assistance to organizations promoting effective storm water programs. A generic set of storm water recommendations also will be produced based on varying levels of development (rural, suburban and urban) to be used by organizations across the Chesapeake Bay watershed. Project partners will include Bruce A. Gilmore, the Chesapeake Bay Foundation and the Keith Campbell Foundation for the Environment.

### **Abandoned Mine Drainage Project on Morgan Run: MR-7**

*Clearfield County Conservation District*

Clearfield County, Pa.

Small Watershed Grant: \$40,000  
Partner Contributions: \$2,625

The Clearfield County Conservation District will design and install a passive treatment system that will abate an abandoned mine drainage discharge located at Morgan Run, Pennsylvania. This project aims to make Morgan Run a fishable stream. Throughout this project, the flow and chemistry of the sample location will continued to be monitored. Project partners will include the Bureau of Abandoned Mine Reclamation, the Morgan Run Watershed Group, the New Miles of Blue Stream, the Pennsylvania Department of Environmental Protection, the Senior Environmental Corps and the Susquehanna River Basin Commission.

**Coover Park Riparian Restoration Project - Promoting Sustainable Development**

*Dillsburg Jaycees*

Dillsburg, Pa.

Small Watershed Grant: \$37,000

Partner Contributions: \$60,000

The Dillsburg Jaycees will develop and implement a riparian restoration plan at Coover Park, located along Dogwood Run in Dillsburg, Pennsylvania. Project activities will include two community education workshops, a natural resources inventory, design and construction of 575 feet of riparian buffers and design of a green parking lot. The workshops will educate members of the public about riparian buffers and storm water best management practices. Volunteers will include local Boy Scouts and Kiwanis. Project partners will include the Alliance for the Chesapeake Bay, Carroll Township, Dillsburg Borough, the Land Logics Group, the Pennsylvania Department of Conservation and Natural Resources, the Pennsylvania Department of Environmental Protection and the Pennsylvania League of Women Voters.

**Abandoned Mine Drainage Project on Emigh Run: ER-8**

*Emigh Run Morrisdale Watershed Association*

Morrisdale, Pa.

Small Watershed Grant: \$26,400

Partner Contributions: \$3,975

The Emigh Run Morrisdale Watershed Association will design and install a passive treatment system that will abate an abandoned mine drainage (AMD) discharge, ER-8. ER-8 is a toe of spoil seep emanating along a reclaimed surface mine area. The seep forms a disperse channel which collects in a small pond area along the stream bank. Treating this discharge will remove a pollution load of 25 lbs/day of acidity, 0.2 lbs/day of iron and 2.58 lbs/day of aluminum. Project partners will include Boggs and Morris townships, the Clearfield County Conservation District, the

Moshannon Creek Watershed Coalition, the New Miles of Blue Stream and West Branch Area School District.

**Connecting Forest Buffers and Rotational Grazing in the Endless Mountains Region**

*Endless Mountains Resource Conservation and Development Council, Inc.*

Bradford, Susquehanna, Tioga, Lycoming, Sullivan and Wyoming counties, Pa.

Small Watershed Grant: \$35,000

Partner Contributions: \$712,507

The Endless Mountains Resource Conservation and Development Council, Inc. will restore 38.55 miles of riparian forest buffers presently being grazed, restore 96 acres of wetlands by cattle exclusion, perform outreach to landowners and collect data on local trials of buffer restoration methods. Project partners will include the Bradford County Conservation District, the Chesapeake Bay Foundation, the Northeast Pennsylvania Chapter of Project Grass, the Pennsylvania Department of Environmental Protection, the USDA Forest Service, the Sugar Creek Watershed Association, the Susquehanna County Conservation District, the Towanda Creek Watershed Association, the Wyalusing Creek Watershed Association and the Wysox Watershed Association. Funding will be provided by the USDA Forest Service.

**Juniata County Stream Monitoring Program - Phase II**

*Juniata County Conservation District*

Mifflintown, Juniata County, Pa.

Small Watershed Grant: \$9,900

Partner Contributions: \$7,600

The Juniata County Conservation District will collect baseline data on stream chemistry for all watersheds within Juniata County lying between the Juniata and the Susquehanna rivers. The resulting data will be reported to the Pennsylvania Department of Environmental Protection for monitoring, future implementation and publication. The Juniata County Conservation District will work in cooperation with Penn State Cooperative Extension to develop media outreach to bring greater community attention to the project.

**West Branch, Little Conestoga Creek-Dam Removal and Stream Restoration**

*Little Conestoga Watershed Alliance*

Lancaster County, Pa.

Small Watershed Grant: \$37,000

Partner Contributions: \$10,000

The Little Conestoga Watershed Alliance will restore 2,300 feet of impaired stream in the West Branch of Little Conestoga Creek. Restoration will entail channel

stabilization, installation of forest buffers and the removal of two stream obstructions that are currently acting as dams. This removal will improve fish migration and enhance stream channel conditions. Project partners will include the Lancaster County Conservancy, the Pennsylvania Fish and Boat Commission and RETTEW Associates, Inc. Funding will be provided by the National Oceanic and Atmospheric Administration.

#### **Yellow Breeches Stream Restoration Project**

*Messiah College*

Grantham, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$64,300

Messiah College will restore sections of the Yellow Breeches corridor that traverse campus grounds. This project will design and implement a stream bank stabilization using natural stream channel design techniques and a riparian restoration plan for 800 linear feet of stream. Project partners will include the Alliance for the Chesapeake Bay and the Land Logics Group.

#### **North Branch Muddy Creek, Phase I Stream Restoration Project, Thompson Pasture**

*Trout Unlimited, Muddy Creek, Pennsylvania, Chapter*  
York County, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$162,755

Trout Unlimited's Muddy Creek, Pennsylvania, chapter will survey and restore 3,200 feet of impaired stream in the North Branch of Muddy Creek. The project also will create 0.12 acres of wetland and install fencing along 4,882 feet of stream bank to prevent livestock from entering the stream. The project site is highly visible to the local community from roadways and will demonstrate the effectiveness of stream restoration and riparian vegetation. Project partners will include the Pennsylvania Department of Environmental Protection.

#### **Stream Bank Fencing and Agriculture Best Management Practices**

*Penns Valley Conservation Association*

Centre County, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$15,000

The Penns Valley Conservation Association will increase the number of farms in the Upper Penns Creek Watershed that use agricultural best management practices designed to minimize nonpoint source pollution. Such practices will include stream bank fencing, riparian buffer stabilization and control of storm water runoff from farms, with an emphasis on nutrient and manure management. Project

partners will include the Chesapeake Bay Foundation, Ducks Unlimited, the Penns Valley School District and the U.S. Fish and Wildlife Service.

#### **Growing Native: Get Nuts for Clean Water Initiative and 2005 Fall Seed Collection Season**

*Potomac Conservancy*

Va., Md., Pa. and DC

Small Watershed Grant: \$40,000

Partner Contributions: \$338,400

The Potomac Conservancy will collect native hardwood tree seeds to replenish native seedling stock at state nurseries in Virginia and Maryland. Full-service seed drop-off stations will be established at locations throughout the Potomac watershed. Project partners will include Aveda, the Maryland Department of Natural Resources, the Pennsylvania Department of Environmental Protection, the Potomac Watershed Partnership and the Virginia Department of Forestry. Funding will be provided by the USDA Forest Service.

#### **Abandoned Mine Drainage Project on Loop Run: LR10**

*Rocky Mountain Elk Foundation*

State Game Lands #321, Clinton County, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$4,735

The Rocky Mountain Elk Foundation will install a passive treatment system to reduce unwanted discharges from an abandoned coal mine into Loop Run. The project's objectives are to reduce iron, aluminum and manganese concentrations. The creation of a 240' by 130' aerobic wetland and a sedimentation pond will allow iron and aluminum to precipitate. A 300' by 100' limestone bed will assist manganese removal. Project partners will include the New Miles of Blue Stream and the Pennsylvania Game Commission. Funding for this project provided in part by the Western Pennsylvania Watershed Program.

#### **Rosgen Natural Restoration -- Habitat Enhancement Nature's Way**

*Southern Alleghenies Conservancy, Inc.*

Alum Bank, Bedford County, Pa.

Small Watershed Grant: \$14,000

Partner Contributions: \$15,200

The Southern Alleghenies Conservancy, Inc. will restore a headwater stream in the Juniata River watershed. Twelve hundred linear feet of stream will be restored using natural stream channel design techniques that reproduce natural pool-and-rifle stream sequences and stream meanders. Nineteen hundred linear feet of riparian buffer will be established along the restored stream segment. Project

partners will include the Bedford County Planning Commission, the Juniata Clean Water Partnership, the Mountain Laurel Chapter of Trout Unlimited and the Pennsylvania Department of Conservation and Natural Resources. Funding will be provided by the USDA Forest Service.

#### **Meshoppen-Tunkhannock BMP Implementation**

*Susquehanna County Conservation District*

Susquehanna and Wyoming counties, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$333,715

The Susquehanna County Conservation District will implement a variety of agricultural best management practices (BMPs) that can improve water quality by reducing sediment and nutrient levels from agricultural run-off into adjacent streams. BMPs implemented as a part of this project will include riparian forest buffers, no-till farming and cover crops. Water quality monitoring will help measure the improvements associated with these BMPs. Project partners will include the Chesapeake Bay Foundation, the Pennsylvania Department of Natural Resources, Project Grass and the USDA Natural Resources Conservation Service.

#### **The Portage Creek Stream Bank Restoration Project**

*The Bucktail Watershed Association*

Emporium and Cameron counties, Pa.

Small Watershed Grant: \$16,800

Partner Contributions: \$2,700

The Bucktail Watershed Association will restore and stabilize 350 feet of stream bank, annually reduce more than 1100 cubic feet of sediment entering the Driftwood Branch of the Sinnemahoning Creek and plant 450 feet of forested riparian buffer. Twenty volunteers will help install bioengineering materials for stream bank stabilization and plant trees in the riparian area of the project. The Bucktail Watershed Association will be partnering with the Cameron County Conservation District on this project.

#### **Susquehanna Watershed Leadership Initiative**

*The Izaak Walton League of America*

Pa., N.Y. and Md.

Small Watershed Grant: \$25,000

Partner Contributions: \$355,470

The Izaak Walton League of America will continue to build the capacity of local communities to participate in watershed restoration and stewardship activities. Project outcomes will include five habitat enhancement or

watershed stewardship workshops, the creation of fences along 50,000 linear feet of stream bank and the restoration and/or planting of riparian buffers along 6 miles of stream bank. Up to 125 community representatives will be taught how to restore and protect streams and wetlands. Project partners will include the Altria Group, Inc., the U. S. Fish and Wildlife Service, the Hawksglen Foundation, the George and Miriam Martin Foundation, the Knapp Foundation, the National Tree Trust, the Oxford Foundation, the Izaak Walton League of New York, Pennsylvania, and Maryland, the Pennsylvania Department of Environmental Protection, the Ressler Mill Foundation and the USDA Natural Resources Conservation Service. Funding will be provided by the USDA Natural Resources Conservation Service.

#### **Prettyboy Watershed Forest Stewardship Campaign**

*Trust for Public Land*

Carroll and Baltimore counties, Md.; York County, Pa.

Small Watershed Grant: \$29,000

Partner Contributions: \$75,365

The Trust for Public Land, in partnership with Prettyboy Watershed Alliance, will implement restoration projects and conduct outreach to develop greater awareness of forestry stewardship opportunities among residents of the Prettyboy Watershed. Volunteers will conduct a survey of riparian buffer needs throughout the watershed and will restore 6 acres of riparian buffers. The recipient will also conduct a poetry and poster contest in local elementary schools. Project partners will include the Alliance for the Chesapeake Bay, the Baltimore County Department of Environmental Protection & Resource Management, the Chesapeake Bay Trust and Constellation Energy. Funding will be provided by the USDA Forest Service.

#### **White Deer Creek Stream Restoration**

*White Deer Creek Watershed Association*

White Deer Township, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$297,504

The White Deer Creek Watershed Association will restore 1,700 linear feet of stream to stabilize failing stream banks, improve sediment transport, alleviate flooding, enhance aquatic habitat and facilitate public enjoyment of the restored reach. Five in-stream channel-spanning rock structures will help to protect two highway bridges from scour and will add habitat in the form of pools. Planted riparian vegetation will add root mass to this reach of stream, while abandoned, decrepit and unused infrastructure will be removed from the stream wherever possible. Project partners will include the Canaan Valley

Institute, Lewisburg Borough, the Pennsylvania Chapter of the National Railway Historic Society, the Pennsylvania Department of Transportation, the Pennsylvania American Water Company, the Pennsylvania Department of Environmental Protection, the Pennsylvania Department of Transportation, Skelly and Loy, Inc. and the Union County Conservation District.

### **York County Chesapeake Bay BMP Implementation & Protection Plan**

*York County Conservation District*

York County, Pa.

Small Watershed Grant: \$40,000

Partner Contributions: \$57,812

The York County Conservation District will install Best Management Practices (BMPs) on pastures and grazing lands along headwater stream corridors. Priority practices employed include stream bank fencing, stream crossings, stable cattle walkways, pasture fencing (exterior and interior), riparian buffer planting (forest and grass) and water systems. The project will benefit 72 local municipalities of York County by reducing sediment and nutrient loadings to the Chesapeake Bay and its rivers and tributaries. Project partners will include the USDA Natural Resource Conservation Service, the Penn State Cooperative Extension Service, the Pennsylvania Department of Environmental Protection, the Pennsylvania Fish & Boat Commission, the United States Army Corps of Engineers and the United States Environmental Protection Agency. Funding will be provided in part by the USDA Natural Resources Conservation Service.

## **Virginia**

### **Enhancing the Capacity of Community-Based Restoration for Virginia's National Wildlife Refuges within the Chesapeake Bay Watershed**

*Alliance for the Chesapeake Bay*

Occoquan National Wildlife Refuge (NWR), Rappahannock Valley NWR, Presquile NWR, Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$38,370

The Alliance for the Chesapeake Bay will work with the Potomac River National Wildlife Refuge Complex and the Eastern Virginia Rivers National Wildlife Refuge Complex to increase capacity for community-based restoration projects. Occoquan National Wildlife Refuge (NWR), Rappahannock NWR and Presquile NWR will be the sites of native plant restoration projects totaling over 8 acres. Restoration projects will include a riparian buffer as well as two Bayscape demonstration gardens. Community volunteers will participate in these restoration efforts as well as an invasive species study. Capacity-building

training sessions will be held at refuges and at the James River Restoration Summit. Project partners will include Friends of Potomac River Refuges, the James River Association, Master Gardeners, the Virginia Native Plant Society, the Rappahannock Wildlife Refuge's Friends and Virginia Commonwealth University.

### **Four Mile Run Water Stewardship Teams Program**

*Arlingtonians for a Clean Environment*

Arlington, Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$38,500

Arlingtonians for a Clean Environment will implement the Water Stewardship Team's program to empower residents to connect with their neighbors and their community to achieve concrete improvements in water quality. Thirty new stewardship teams will be produced, each involved in taking neighborhood-based actions to reduce water pollutants, storm water volume and water consumption. A quantitative report compiling the results of the water stewardship teams will be generated, as well as a business plan and marketing materials to disseminate information about this program within the community. Project partners will include Arlington County, the City of Alexandria, the City of Falls Church, the Empowerment Institute, the Spring Creek Foundation and the Virginia Cooperative Extension.

### **Chesapeake Bay Foundation Agricultural Stewardship Project**

*Chesapeake Bay Foundation*

Augusta and Rockingham counties, Va.;

Fulton County, Pa.

Small Watershed Grant: \$50,000

Partner Contributions: \$79,127

The Chesapeake Bay Foundation will provide financial cost-share support and associated outreach to farmers in targeted areas of the Potomac-Shenandoah watershed in order to increase their capacity to reduce nutrient and sediment pollution. This project will increase on-the-ground conservation by helping enroll landowners in federal Farm Bill programs. At least 20 acres of wetlands and 13 miles of riparian buffer will be restored. Project partners will include the Chesapeake Bay Foundation, the USDA Natural Resources Conservation Service and the Shenandoah Resource Conservation and Development Council. Funding will be provided by the USDA Forest Service and the USDA Natural Resources Conservation Service.

### **Stormwater Abatement Initiative - II**

*Chesapeake Bay Foundation, Inc.*

Md., Pa. and Va.

Small Watershed Grant: \$40,000

Partner Contributions: \$58,180

The Chesapeake Bay Foundation, Inc. will enhance the capacity of watershed groups and local governments in Maryland, Pennsylvania and Virginia to strengthen implementation of storm water management programs at the local and state levels. A strategy for the enactment of a storm water utility fee by a local government will be developed, along with the provision of direct technical assistance to organizations promoting effective storm water programs. A generic set of storm water recommendations also will be produced based on varying levels of development (rural, suburban and urban) to be used by organizations across the Chesapeake Bay watershed. Project partners will include Bruce A. Gilmore, the Chesapeake Bay Foundation and the Keith Campbell Foundation for the Environment.

### **Riparian Inventory, Restoration and Monitoring**

*Chesterfield County*

Chesterfield County, Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$16,700

Chesterfield County will protect and restore the county's riparian buffers by creating a new GIS layer of 243 perennial stream miles and 363 intermittent stream miles of riparian buffer vegetation for Swift Creek watershed. This layer will help direct future restoration efforts. County citizens will participate in stewardship implementation and riparian buffer monitoring. Project partners will include the Chesterfield County Office of Water Quality, Virginia Dominion Power, the Friends of Chesterfields Riverfront, the Virginia Department of Forestry, Manchester High School, the James River Soil and Water Conservation District, Chesterfield County Parks and Recreation and the Chesterfield County Department of Public Affairs.

### **Birdfield Suburban Water Quality Improvement Project**

*City of Lexington, Virginia*

City of Lexington, Rockbridge County, Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$25,700

The City of Lexington will coordinate stream bank stabilization efforts, conduct riparian buffer and wetland plantings, design and construct a detention pond and plant a rain garden. Volunteers from Washington and Lee University will conduct water quality sampling at nine locations along Woods Creek. Project partners will include the Boxerwood Education Association, Red Hammer, LLC, and Washington and Lee University.

### **Virginia Beach Fish Passage Project**

*City of Virginia Beach (Va.)*

City of Virginia Beach, Va.

Small Watershed Grant: \$25,000

Partner Contributions: \$27,500

The City of Virginia Beach will construct a fish ladder at a city-owned site to provide access to spawning habitat for anadromous and migratory fish species, including blueback herring and American shad. Community volunteers will assist with the planting of native vegetation at the restored site. Interpretive signage will be installed to help educate community members about the project and its importance to maintaining healthy fisheries. Project partners include the U. S. Fish and Wildlife Service and the Virginia Department of Game and Inland Fisheries. Funding will be provided by the National Oceanic and Atmospheric Administration.

### **Community Engagement in the Occoquan and Four Mile Run Watersheds**

*Friends of the Occoquan (FOTO)*

Occoquan, Alexandria, Prince William, Fairfax and Arlington counties, Va.

Small Watershed Grant: \$10,000

Partner Contributions: \$10,000

The Friends of the Occoquan (FOTO) will educate and engage the local community in the importance of maintaining and preserving waterways. To accomplish this, FOTO volunteers will install 20 Spanish language signs throughout the Occoquan and Four Mile Run watersheds, translate and distribute watershed literature and recruit volunteers for clean-ups. Project partners will include Arlington County, Arlingtonians for a Clean Environment, the Northern Virginia Park Authority, the Occoquan Watershed Coalition, the Prince William Park Authority, the Town of Occoquan and the Virginia Department of Conservation and Recreation.

### **Willow Brook Crooked Run Watershed Initiative**

*Friends of the Shenandoah River*

Warren, Frederick and Clarke counties, Va.

Small Watershed Grant: \$35,000

Partner Contributions: \$98,000

The Friends of the Shenandoah River (FOSR) will build on the Willow Brook-Crooked Run Watershed Initiative by focusing on identifying sources of pollution and developing communication networks with residents. FOSR will install four Best Management Practices (BMPs) in the watershed that illustrate sound environmental practices. In

addition, educational programs will be designed for local residents. Project partners will include DuPont, the Izaak Walton League, the Lord Fairfax Soil and Water Conservation District, the Virginia Department of Environmental Quality, the Virginia Department of Conservation and Recreation and Warren County.

#### **Woodville Plantation -- Park Restoration**

*Gloucester Parks, Recreation & Tourism*

Gloucester, Gloucester County, Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$80,200

Gloucester Parks, Recreation & Tourism will create environmentally sensitive development and construction plans for wetland plantings, parking lot buffers and trail side vistas. It will also include educational public outreach containing interpretive signs about the vegetation and handicap accessible boardwalks. Project partners will include: Park Partners, Inc., the USDA Natural Resource Conservation Service and Tidewater Resource Conservation and Development.

#### **Restorative Forestry Initiative**

*Healing Harvest Forest Foundation*

Copper Hill, Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$20,000

The Healing Harvest Forest Foundation will double the number of Biological Woodsmen Restorative Forestry practitioners in the Chesapeake Bay Watershed. This will be accomplished through the existing educational programs of Healing Harvest Forest Foundation. This project will increase the number to a total of six practitioners. Project partners will include the Chesapeake Bay Restoration Fund, six landowners and the Virginia Department of Forestry. Funding will be provided by the USDA Forest Service.

#### **James River Watershed Restoration Project**

*James River Association*

James River Watershed, Va.

Small Watershed Grant: \$50,000

Partner Contributions: \$60,000

The James River Association will restore critical watersheds along the James River drainage basin area through landowner outreach and conservation easements. Easements will protect and/or restore 5 miles or 30 acres of riparian forest buffers and/or native warm season grass buffers. Two landowner workshops will be held detailing riparian or shoreline restoration options and tax benefits associated with the donation of conservation easements. Additionally, the James River Association will meet with

landowners, citizen groups, and local soil and water conservation districts to present and discuss techniques available to protect and restore riparian lands. Project partners will include American Forests, Alcoa and the Virginia Environmental Endowment. Funding will be provided by the National Oceanic and Atmospheric Administration and the USDA Forest Service.

#### **Pollazzo Condominium Stormwater Management and Restoration Plan**

*Lands and Waters*

Arlington County, Va.

Small Watershed Grant: \$40,000

Partner Contributions: \$143,914

Lands and Waters will install a 12,150-square-foot green roof that will filter and retain water, thereby reducing storm water runoff. The roof will be retrofitted on the Pollazzo condominium, a 7-story, 35-year-old high-rise on a 1.2 acre lot in the heart of the Four Mile Run watershed. Project partners will include Arlington County, the Columbia Pike Revitalization Organization and the Virginia Cooperative Extension.

#### **Lower Machodoc Creek (Va.) Shoreline Assessment**

*Longwood University Foundation, Inc.*

Westmoreland County, Va.

Small Watershed Grant: \$40,500

Partner Contributions: \$40,500

'Living shoreline' techniques use natural vegetation and other organic materials to stabilize eroding coastlines, restoring valuable wildlife habitat while protecting shorelines from further erosion. The Longwood University Foundation will establish a framework for potential living shoreline treatments within the Lower Machodoc Creek watershed. The project includes an inventory of existing shoreline conditions, identification of potential shoreline restoration projects, a hands-on living shorelines stewardship workshop and design of a living shoreline project on Hull Springs Farm. Project partners include Clean Virginia Waterways, Longwood University, the Northern Neck Planning District Commission, the Northern Neck Soil and Water Conservation District, Virginia Commonwealth University and the Virginia Institute of Marine Science. Funding will be provided by the National Oceanic and Atmospheric Administration.

#### **Blackwater Creek Watershed Resource Analysis**

*Lynchburg College*

Campbell and Bedford counties, Va.

Small Watershed Grant: \$30,000

Partner Contributions: \$416,865

Lynchburg College will create a comprehensive database for the Blackwater Creek Watershed by collecting and analyzing existing data sources. Data will be incorporated into a GIS database and a watershed management plan developed for the College Lake watershed. The database will also provide a framework for the subsequent development of a watershed management plan for Blackwater Creek. Project partners will include Bedford County, Campbell County, the City of Lynchburg, the U.S. Army Corps of Engineers and the Virginia Department of Environmental Quality.

#### **Mount Vernon Country Club Stream Bank Restoration**

*Mount Vernon Country Club*

Alexandria, Va.

Small Watershed Grant: \$25,000

Partner Contributions: \$217,900

The Mount Vernon Country Club will restore and stabilize segments of a perennial stream in southeastern Fairfax County. Approximately 3,000 feet of stream bank of the historic North Fork of Dogue Creek will be restored using natural stream restoration techniques, thereby enhancing stream flow, reducing soil erosion and loss of stream bank vegetation and limiting downstream silting. Project partners will include the Fairfax County Board of Supervisors, the Mount Vernon Council of Civic Associations, the U. S. Army Corps of Engineers and the Virginia Department of Environmental Quality.

#### **Occoquan Initiative**

*Northern Virginia Conservation Trust*

Fairfax County, Va.

Small Watershed Grant: \$10,000

Partner Contributions: \$41,400

The Northern Virginia Conservation Trust will continue to work with landowners to generate more interest in land conservation, expand riparian planting activities and conduct at least four community outreach activities. Project partners will include the Audubon Naturalist Society, the Clifton Betterment Association, Fairfax County, Friends of Little Rocky Run, Friends of Mason Neck, the Northern Virginia Conservation Trust and the Northern Virginia Region Park Authority.

#### **Protecting Human Health and Water Quality in the Town of Leesburg and its Watersheds**

*Piedmont Environmental Council*

Loudoun County, Va.

Small Watershed Grant: \$30,000

Partner Contributions: \$50,300

The Piedmont Environmental Council will complete a watershed management plan and implement

demonstration projects to improve storm water management in subwatersheds in Leesburg, Virginia. For these subwatersheds, the council will perform a baseline watershed assessment and identify site opportunities for storm water retrofit, upland pollution prevention, conservation areas and stream corridor restoration. Project partners will include the Altria Corporation, the Center for Watershed Protection and the Town of Leesburg, Virginia.

#### **A Changing Landscape: Urban and Suburban Restoration in the Northern Shenandoah Valley**

*Potomac Conservancy*

Winchester, Va.

Small Watershed Grant: \$25,000

Partner Contributions: \$50,000

The Potomac Conservancy will showcase solutions to curb erosion and improve degraded water quality in the rapidly growing urban and suburban areas of the northern Shenandoah Valley. This project will create two rain gardens, restore 0.5 acres of wetlands and include two educational outreach presentations to homeowners, college students, community planners, developers and landscape design professionals. Project partners will include the Agua Fund, Blandy Experimental Farm, Ducks Unlimited, the Friends of the Shenandoah River, Lord Fairfax Community College, the Lord Fairfax Soil and Water Conservation District, the Natural Resource Conservation Service, the Potomac Watershed Partnership, the Virginia Cooperative Extension, the Virginia Department of Forestry and the Virginia Native Plant Society. Funding will be provided by the USDA Forest Service.

#### **Growing Native: Get Nuts for Clean Water Initiative and 2005 Fall Seed Collection Season**

*Potomac Conservancy*

Va., Md., Pa. and the District of Columbia

Small Watershed Grant: \$40,000

Partner Contributions: \$338,400

The Potomac Conservancy will collect native hardwood tree seeds to replenish native seedling stock at state nurseries in Virginia and Maryland. Full service seed drop-off stations will be established at locations throughout the Potomac watershed. Project partners will include Aveda, Maryland Department of Natural Resources, Pennsylvania Department of Environmental Protection, Potomac Watershed Partnership and Virginia Department of Forestry. Funding provided by USDA Forest Service.

#### **Randolph-Macon College Low Impact Development and Community Outreach**

*Randolph-Macon College*

Ashland, Va.

Small Watershed Grant: \$40,000  
Partner Contributions: \$17,464

Randolph-Macon College will create demonstration sites for eight low-impact development practices on its campus and will document the effect of these practices on nutrients, sediment and storm water hydrology. A community outreach program will educate the public about watershed conservation and the potential benefits of low-impact development strategies. Four community events called "Mechumps Days" will be targeted at local government, businesses and private citizens in the watershed. There also will be a student research report describing the efficacy of the low-impact development for improving storm water quality. Project partners will include the Hanover/Caroline Soil and Water Conservation District, the Town of Ashland and the Williamsburg Environmental Group.

### **People, Land and Streams of the Upper Thornton River Watershed: A Model for Countywide Watershed Management Planning**

*Rappahannock Friends and Lovers of Our Watershed*  
Rappahannock County, Va.

Small Watershed Grant: \$28,700  
Partner Contributions: \$44,070

The Rappahannock Friends and Lovers of Our Watershed (RappFLOW) will develop and implement a community-based watershed management plan for Rappahannock County, Virginia. Work will focus on the Upper Thornton River, which will serve as the model for the rest of the county. A vulnerability assessment will be conducted for the watershed to determine areas most threatened by land development. This information will be incorporated into the watershed management plan. Public input will be solicited at all stages of plan development, and community volunteers will be trained in watershed assessment. A summary of the plan will be distributed to local governments and watershed residents. Project partners will include the Center for Watershed Protection, the Culpepper Soil and Water Conservation District, the Piedmont Environmental Council, the Piedmont Research Institute, the Rappahannock County Government, the Rappahannock League for Environmental Protection, Targeted Learning Corporation and the Virginia Department of Conservation and Recreation.

### **Paradise Creek Eco-Park: Phase I, Design**

*The Elizabeth River Project*  
Portsmouth, Va.

Small Watershed Grant: \$20,000  
Partner Contributions: \$150,500

The Elizabeth River Project will restore and enhance up to 40 acres of creek-side property as a park that will offer the only public access to the Bay tributary. This phase of the project will include topographical surveys, site assessment and design services and public outreach and education. Project partners will include the City of Portsmouth, Peck Land Co., the Virginia Port Authority and the United States Navy. Funding will be provided by the National Oceanic and Atmospheric Administration.

### **Restoring the Elizabeth River through River Stars - Phase II**

*The Elizabeth River Project*

Chesapeake, Norfolk, Portsmouth, and Virginia Beach, Va.  
Small Watershed Grant: \$25,000  
Partner Contributions: \$30,090

The Elizabeth River Project will motivate "River Star" industrial facilities to achieve voluntary pollution prevention and wildlife habitat enhancement in the Elizabeth River watershed, concentrating on the Money Point section of the Southern Branch. This project will document the prevention or reduction of at least 250,000 pounds of hazardous materials from point sources, nonpoint sources and waste reduction. Participating industries will document the conservation and restoration of a minimum of 25 acres of urban wildlife habitat, consisting of riparian buffers, urban forests, oyster reefs, wetlands and wildflower meadows. Project partners will include Businesses for the Bay, the Hampton Roads Sanitation District, River Stars Facilities and the Virginia Department of Environmental Quality.

### **Paradise Creek Plan Implementation 2005: The Mid-Point**

*The Elizabeth River Project*  
Portsmouth, Va.

Small Watershed Grant: \$50,000  
Partner Contributions: \$178,247

The Elizabeth River Project will work to improve water quality in Paradise Creek using a variety of approaches. Eelgrass will be seeded in a pilot area of the creek bottom near an oyster reef, established under a previous Small Watershed Grant in 2004. Five thousand oysters raised by community volunteers will be placed on the new oyster reef. Four teams of volunteers will assist with implementing storm water improvement techniques. Finally, 50 volunteers will help remove 10 tons or more of heavy debris from 1.5 miles of creek bottom and shoreline. Project partners will include the City of Portsmouth, the Craddock Civic League, Craddock Helping Hands, the Craddock Lions Club, the Student National Environmental Health Association, the U.S. Army Corps of Engineers and the Virginia Department of Environmental Quality. Funding

will be provided in part by the National Oceanic and Atmospheric Administration.

### **Living Shoreline Restoration at the Hermitage Foundation**

*The Hermitage Foundation*

Norfolk, Va.

Small Watershed Grant: \$50,000

Partner Contributions: \$87,168

The Hermitage Foundation will restore a tidal pool and its riparian buffer. Management plans include creating 5,625 square feet of native tidal wetlands, restoration of 6,375 square feet of wetlands and restoring 11,635 square feet of riparian buffer with native shrubs and trees along the Lafayette River. This project also will remove rubble and invasive vegetation along the riverbank. Dredging, grading and filling will occur in order to allow restoration. Approximately 20 to 30 students from the Bio-Eco Club at Norfolk Christian High School will donate their time in order to help plant native species. Project partners will include the Algonquin Garden Club, Norfolk Christian High School, the Harborfront Garden Club and the Elizabeth River Project. Funding will be provided by the National Oceanic and Atmospheric Administration.

### **Shenandoah Land Use Network**

*Valley Conservation Council*

Alleghany, Bath, Botetourt, Augusta, Page, Warren, Rockbridge, Rockingham, Shenandoah, Highland and Frederick counties, Va.

Small Watershed Grant: \$26,200

Partner Contributions: \$12,950

The Valley Conservation Council will create a Shenandoah Land Use Network through which local governments in the valley can more effectively share planning resources and expertise. The goal is to help 11 counties in the Shenandoah and Upper James watershed implement ordinances and policies to reduce the adverse impacts of sprawl and protect agricultural and natural areas. Activities will range from offering planning exchange workshops to conducting research on topics of greatest need, acting as a repository and dissemination point for the region and providing public education to increase understanding of options for protecting natural resources even as development increases. Project partners will include the Shenandoah Resource Conservation and Development Council and the 11 counties involved.

## **West Virginia**

### **A Stream Flow Restoration Project for the Potomac Headwaters, Phase II**

*Cacapon Institute*

Hardy County, W. Va.

Small Watershed Grant: \$20,000

Partner Contributions: \$1,150

The Cacapon Institute will determine the hydrologic impact of installing thirty in-stream structures on flow regimes and groundwater levels and the cost of creating landscape water storage in two West Virginia headwater watersheds. In addition, over the life of the project, approximately 15,000 people will be informed of this restoration project through press releases, newsletters and public outreach. Project partners will include the Canaan Valley Institute, the U.S. Bureau of Land Management, the U.S. Fish and Wildlife Service, the USDA Natural Resource Conservation Service, the West Virginia University Extension Service, the West Virginia Conservation Agency, the West Virginia Department of Natural Resources and the West Virginia Department of Environmental Protection. Funding will be provided in part by the USDA Natural Resources Conservation Service.

### **Potomac Headwaters Conservation Initiative**

*Potomac Conservancy*

Alleghany and Garrett counties, Md.;

Hampshire, Hardy, Grant, Mineral and Pendleton counties, W. Va.

Small Watershed Grant: \$50,000

Partner Contributions: \$252,000

The Potomac Conservancy will protect up to 900 acres of forested riparian land in the Potomac Headwaters region; specifically 400 acres in the Cacapon and Lost River watershed and 500 in the South Branch watershed. The project will create a community resource protection strategy through education, research and outreach. Maps detailing forest areas critical to water quality will be developed as well as a database of landowners in key areas. Four workshops for up to 75 West Virginia landowners will be held, and 50 West Virginia professionals (attorneys, appraisers, accountants and realtors) will be educated about permanent land protection for their clients. Project partners will include the Maryland Cooperative Extension Service, Timberland Consulting, the Town Creek Foundation, the WestWind Foundation and the West Virginia Department of Natural Resources. Funding will be provided by the USDA Forest Service.

### **Morgan County Purple Loosestrife Control**

*Sleepy Creek Watershed Association, Inc.*

Berkeley Springs, Morgan County, W. Va.

Small Watershed Grant: \$15,000

Partner Contributions: \$2,750

The Sleepy Creek Watershed Association, Inc. will conduct an informational and educational campaign about the invasive nature of purple loosestrife to landowners and the general population of Morgan County and implement an intensive control program on 15 acres along Warm Springs Run. Project partners will include the Berkeley Springs Chamber of Commerce, the Eastern Panhandle Conservation District, the Fox Glove Garden Club, the Morgan County Master Gardeners Association, the Potomac Headwaters RC&D, the USDA Natural Resources Conservation Service, the West Virginia University Extension Service, the West Virginia Division of Environmental Protection and the West Virginia Division of Natural Resources.

*For more information and descriptions of the 2005 Chesapeake Bay Small Watershed Grants, please visit <http://www.chesapeakebay.net/smallwatergrants.htm>.*