For more information about water and what you can do to help keep it clean, or how you can reach your local watershed group, please contact the following organizations:

Philadelphia Water Department
Public Education Unit
1101 Market Street, 3rd Floor
Philadelphia, Pennsylvania 19107
215-685-6300

Partnership for the Delaware Estuary, Inc.
One Riverwalk Plaza
110 South Poplar Street, Suite 202
Wilmington, Delaware 19801
1-800-445-4935
www.udel.edu/PDE/

Also, check out these exciting websites for more water wisdom:

Academy of Natural Sciences
www.acnatsci.org

Center for Watershed Protection
www.cwp.org

Delaware River Basin Commission
www.state.nj.us/drbc/edweb/edweb.htm

Fairmount Water Works Interpretive Center
www.fairmountwaterworks.com

Pennsylvania Department of Conservation and Natural Resources
www.dcnr.state.pa.us/

Pennsylvania Fish and Boat Commission
www.state.pa.us/fish

Delaware Riverkeeper Network
www.delawareriverkeeper.org

Stroud Water Research Center
www.stroudcenter.org

United States Environmental Protection Agency Office of Water
www.epa.gov/ow/

United States Fish and Wildlife Service
www.fws.gov/

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www.epa.gov/ow/

United States Fish and Wildlife Service
www.fws.gov/
Dear Friends,

June, 2006

The Philadelphia Water Department, with support from the Partnership for the Delaware Estuary, has assembled this guide for educators in the region. The booklet is intended to help “get the word out” about all of the exciting materials and programs that address water-related issues in our region and beyond.

Even though the Delaware Estuary, the tidal portion of the Delaware River, is our region’s most valuable resource, little is taught about it in our schools. It is awesome to think about how the Estuary defines our lives in so many ways: geographically, economically, culturally, historically, and recreationally. And for many of us, it is the source of our drinking water.

This guide will help to connect educators with local environmental issues and resources information. While it is beneficial for students to learn about the endangered species and problems that face places like the tropical rainforests, it is more important that they know about the watersheds where they live. Students should know that their backyards are vital habitats that, like the rainforests, are also home to many endangered species.

We have attempted to make this comprehensive directory a ready reference tool that you will use time and time again. We hope that you find this resource helpful.

Sincerely,

Sincerely,

Drew Brown
Manager of Public Education
Philadelphia Water Department

Kathy Klein
Executive Director
Partnership for the Delaware Estuary

P.S. Please use the form at the back of this booklet to let us know about other organizations and governmental agencies that offer water-related educational programs.
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Map of the Delaware Estuary Watershed                                                              105

- Organizations offering materials and/or programs pertaining to the Schuylkill River watershed.
Mission
DNS, a statewide non-profit membership organization, fosters understanding, appreciation, and enjoyment of the natural world through education; preserves ecologically significant areas; and advocates stewardship and conservation of natural resources.

Organization Description
Delaware Nature Society offers a full array of environmental education programs (Animals, Plants, Ecology, Aquatics, Earth Science, History and Art) including field studies, overnights, outreaches, farm programs, gifted summer programs, teacher graduate courses and district-wide contract programs.
DNS maintains two nature centers – Abbott’s Mill Nature Center (Milford) and Ashland Nature Center (Hockessin) – and manages four nature preserves for biodiversity, research and educational programs: Burrows Run Preserve/Coverdale Farm, Flint Woods Preserve, Marvel Saltmarsh Preserve and Cedar Bog Preserve. Streams Adoption Program is also available for schools. Please call for fees and to find out more about additional materials. Scholarships are available. The Nature Society is an affiliate of the National Wildlife Federation, offering input on national issues that concern citizens in our region.

Materials Available
Book and video resources are available to teachers and society members at no charge. Local field guides are available for purchase.

Programs Offered

Pondering the Pond
Grades PK – K  1½ hours   $2/student
Explore the pond and discover what creatures call it home. While viewing live animals and taxidermy, students learn about mammals, amphibians and reptiles that live here. Discover in what ways pond creatures are the same and what ways they are different. [Topical Pathway 1]

OVERNIGHTS & EXTENDED DAYS AT REDDEN STATE FOREST
Grades 1-8
Overnight
$20/student
10 a.m. on the first day to noon on the second day or 5 p.m. on the first day to 4 p.m. on the second day
Extended Day
$15/student
10:00 a.m. - 8:00 p.m.
Overnights and extended days at Redden State Forest near Georgetown are a special adventure for everyone! Spend a night for an in-depth experience with the outdoors. A great kickoff or culminating activity for your curriculum, your class will enjoy the many hands-on programs offered. A free teacher’s planning guide will be sent to you upon reserving a date.

Pond Study
Grades 1 - 2  2 hours   $3/student
Use dip nets and waders to discover the plant and animal inhabitants of Abbott’s Pond. First grade examines the unique plant life of the pond. Second grade looks at how animals develop, change, and adapt to the pond. [Topical Pathways 2, 3]

Seashore & Saltmarsh
(April-Oct.) Grades 1 – 3  2 hours  $3/student
(Meet at Slaughter Beach). Explore the beach and saltmarsh habitats at Slaughter Beach. Discover the wonders of life while examining plants and animals that live in each area. Learn the value of protecting this fragile ecosystem. [Topical Pathways 2, 3, 4]

Fantastic Fish
Grade 4-8  3 hours  $4/student
Discover biological and ecological adaptations of fish by examining external and internal features. Learn to read a fish by its structure and how that relates to its function. Use a seine net in Abbott’s Pond to collect specimens and learn dissecting skills in our wet lab as we explore all aspects of fish life. [Grade 4-5 Topical Pathway 1, Grade 6-8 Topical Pathways 1]

Beach Ecology
(April – Oct.) Grades 4 – 8  3 hours  $4/student
Study the beach, seine the bay and use sampling methods in the saltmarsh to compare and contrast these three habitats and the unique organisms that occupy each site. Focus on shorebirds, horseshoe crabs and their interactions in the Delaware Bay. (Meet at Slaughter Beach) [Grade 4-5 Topical Pathway 1, 2; Grade 6-8 Topical Pathways 1,2,3]

Stream Study
Grade 4  2½ hours  $3/student
Examine stream dynamics, including size, flow and temperature, in Johnson’s Bay. Learn how to measure turbidity. Discover how humans and wildlife impact our stream and identify four basic types of stream pollution. [Topical Pathway 5]
Stream Ecology
Grades 4 – 8
3 hours
$5/student
Determine a stream’s health by examining its biological, chemical and physical attributes. Catch and classify insects and other macro-invertebrates. Use test kits to measure pH and dissolved oxygen levels. Then use microscopes in our wet lab to reveal the tiniest inhabitants of the stream. These skills provide students in grades 6-8, the ability to “adopt” and monitor a local stream of choice. [Grade 4-5 Topical Pathways 2, 5; Grade 6-8 Topical Pathways 2, 4]

Pond Ecology I
Grades 4 – 5
2½ hours
$3/student
Use seining, dipping, other sampling methods and microscope examination to learn about the many inhabitants of Abbott’s Pond. Fourth graders examine and compare the structures of insects, amphibians and reptiles. Fifth graders perform water quality testing. [Topical Pathways 1, 2]

Exploring by Canoe
Grade 5 – 8
3 hours
$8/student max. 28 students
After learning basic paddling skills, explore Abbott’s Pond, home to beaver, turtles, and waterfowl. Use seine nets and microscopes to capture and examine underwater life. Observe manmade changes and their impact on the pond ecosystem. 6th grade focuses on classification around the pond. 7th grade looks at the pond and its watershed. 8th grade looks at adaptations of life in the pond. [Grade 5 Topical Pathway 2, Grade 6-8 Topical Pathways 1, 2, 4]

Pond Ecology II
Grades 6 - 8
3 hours
$4/student
Use seining, dipping, other sampling methods and examination by microscope to learn about the many inhabitants of Abbott’s Pond. 6th grade students examine and identify plant life using a key. 7th grade students use pH meters, dissolved oxygen kits and other test equipment to discover watershed quality. Students discuss possible threats to the watershed. 8th grade students look at adaptations of plants and animals, and energy transfer through food webs. [Topical Pathways 1, 2, 4]

Biodiversity at Blair’s Pond
Grades 6 – 8
2½ hours
$3/student
Identify conditions that affect biodiversity along the Blair’s Pond Loop Trail. Investigate and measure the biotic and abiotic components of a lowland moist forest, upland forest and field/forest edge. Discuss invasive species at this unique site and learn to recognize those species that imperil this location. 7th grade students will examine how invasive organisms affect the biodiversity of the watershed. (Meet at Blair’s Pond parking lot). [Topical Pathways 1, 2, 4]

Buoyancy, Displacement & Canoes
Grades 6 – 8
1½ hour
$4/student max. 28 students
Learn how canoes float, how they work in water, and how to maneuver a canoe. Pond flora and fauna will be explored along the way. This short program is designed for individual classes. [Topical Pathway 1]

ESTUARINE ECOLOGY - For students entering grade 7 – July 10-14, 2006
Explore and study ocean, bay and tidal areas. Explore a saltmarsh by canoe, collect brackish and salt water organisms, visit University of Delaware’s marine biology lab, conduct an experiment on a component of the Delaware estuary, and dissect shark, squid and bony fish.

Ecology of Coastal Delaware (Apr.-Oct.)
Grade 8
includes pre-trip and three-hour trip
$7/student
The pre-trip prepares the students for the activities of the trip and focuses on adaptations. The trip is a three-hour field study at Slaughter Beach. Students will learn how valuable data about horseshoe crabs is collected through counting and tagging. Students will also explore the adaptations of dunes and saltmarsh flora and fauna, plus food webs. [Topical Pathway 2]

Stream Ecology & Stream Watch
Grades 9-12
4 hours
$5/student
Learn about Delaware Stream Watch and variables that indicate the health of a body of water. Collect macro-invertebrates and perform physical/chemical testing, such as pH and dissolved oxygen, in Johnson’s Branch. Students examine water samples under a microscope, looking for the minute plants and animals that are the basis of the stream food chain. Emphasis is placed on the possible harmful effects of human activity in the watershed. These Stream Watch skills provide students the ability to “adopt” and monitor a local stream of choice. [Indicators of Achievement 1, 2, 3, 7]

Pond Biodiversity by Canoe
Grades 9-12
4 hours
$8/student (Max. 15 including teacher)
Explore Abbott’s Pond by canoe! Learn how to use the canoe, then paddle out and examine what lives in and around the pond. Students look for aquatic plant life, reptiles and amphibians, and birds that call Abbott’s Pond home. Complete visual surveys, record data and drag a plankton net. Back at the nature center examine the microscopic life found in the pond. [Indicators of Achievement 1, 2]

Teacher in Service Workshops – call for more information.
The Academy of Natural Sciences

Ms. Timshel Purdum, Manager, Elementary Science Education
1900 Benjamin Franklin Parkway
Philadelphia, PA 19103-1195
(215) 299-1057, Fax #: (215) 299-1165
E-mail: Purdum@acnatsci.org

Mission
Our mission is to create the basis for a healthy and sustainable planet through exploration, research, and education.

Materials Available
Website educational supplements—Water: The River to You and Water: Sky to Sea
Living Downstream Interactive Watershed Exhibit-A hands-on display that connects human activities on land to the health of our water bodies.

Educator Workshops-Teachers learn alongside Academy scientists about watersheds and wetlands within the Delaware River watershed.

Educator’s Night Out-Preview Academy education lessons and outreach programs. Receive pre and post-visit materials for lessons. Find out if your school is grant-eligible for a free Academy visit.

Programs Offered
18 interactive lessons available including two watershed lessons:

Water, Water Everywhere Grades 3-5 $75 for up to 30 students
What’s Your Watershed Address? Grades 6 and up $75 for up to 30 students
Watery Worlds Grades preK-2 $75 for up to 30 students

12 traveling lessons are available to grades 3 and up including 2 watershed lessons. Prices vary.

Alliance for a Living Ocean (ALO)

Carol Elliott, Program Coordinator
2007 Long Beach Blvd.
North Beach Haven, NJ 08008
(609) 492-0222, Fax #: (609) 492-6216
Website: www.livingocean.org

Mission
To promote and maintain clean water and a healthy coastal environment through education, research and active participation. We recognize the need to manage our watershed, bay, and ocean holistically since all water flows from “the raindrop to the ocean.”

Materials Available
Various fact sheets about nonpoint source pollution, marine life, and ocean pollution.

Programs Offered

Coastal EnviroScape $75.00
Eco-tour of a Barrier Island $100.00
Scavenger Hunt $30.00
Adopt-a-Beach $50.00
(Donations accepted)
Alliance for a Sustainable Future

Susan Curry, President
316 Edgewood Drive
Ambler, PA 19002
215-591-1551
E-mail: suscurry@comcast.net
Website: www.asustainablefuture.org

Organization Description
Working in the Delaware Valley for a cultural change in consciousness that results in preservation and restoration of natural ecosystems and wise planning to form sustainable communities.

Programs Offered (Speaker topics:)
Sustainability and Lifestyle Choices
Watersheds and Water Quality
Renewable Energy and Air Quality
Organic Food Systems and CSA’s
Voluntary Simplicity
Animal Welfare
The New Cosmology: Epic of Evolution
The Natural Step: Earth Systems Science
The Earth Charter: Ethics for Global Citizenship

Appoquinimink River Association

Sara Wozniak, Executive Director
P.O. Box 341
Middletown, DE 19709
(302) 382-0335
E-mail: sara.wozniak@state.de.us
Website: www.riverassoc.org

Organization Description
The ARA works to preserve, protect and enhance the rivers and related natural resources of the Appoquinimink watershed which includes Middletown, Odessa and Townsend, Delaware.

Materials Available
Delaware Nonpoint Source Educational Materials Survey—booklet providing a listing of nonpoint source educational materials available and applicable for use in Delaware
Our Little Piece of Paradise—brochure describing the plight of the Appoquinimink watershed and includes things that everyone can do to protect water quality.

Programs Available
Classroom presentations on the Appoquinimink watershed, water quality, and things children can do to help prevent water pollution.
Aqua Trails Kayak Tours

McDoell’s Marina
956 Ocean Drive
Cape May, NJ 08204
(609) 884-5600
Website: www.aquatrails.com

Mission
To introduce people to the great sport of kayaking while touring the salt marshes of Southern New Jersey. Paddlers are taught how the ecosystem works and about the many creatures that live there.

Materials Available
Brochures are available at no charge.

Programs Offered
Tours are available to students at a 20% discount, teachers are free. Girl and Boy Scouts and members of the armed forces are also eligible for the 20% discount.

Artesian Water Company

Nancy Parker, Conservation & Environmental Initiatives Coordinator
664 Churchmans Road
Newark, DE 19702
(302) 453-6953, Fax #: (302) 453-6957
Website: www.artesianwater.com

Organization Description:
A public water utility.

Programs Offered
An outreach program on water conservation and water resource protection is available at no charge for Delaware 4th grade students.
Mission
DNS, a statewide non-profit membership organization, fosters understanding, appreciation, and enjoyment of the natural world through education; preserves ecologically significant areas; and advocates stewardship and conservation of natural resources.

Organization Description
Delaware Nature Society offers a full array of environmental education programs (Animals, Plants, Ecology, Aquatics, Earth Science, History and Art) including field studies, overnights, outreaches, farm programs, gifted summer programs, teacher graduate courses and district-wide contract programs.

DNS maintains two nature centers – Abbott’s Mill Nature Center (Milford) and Ashland Nature Center (Hockessin) – and manage four nature preserves for biodiversity, research and educational programs: Burrows Run Preserve/Coverdale Farm, Flint Woods Preserve, Marvel Saltmarsh Preserve and Cedar Bog Preserve. Streams Adoption Program is also available for schools. Please call for fees and to find out more about additional materials. Scholarships are available. The Nature Society is an affiliate of the National Wildlife Federation, offering input on national issues that concern citizens in our region.

Materials Available
Video (VHS): “Protecting Our Water: Who’s got the power?”
Delaware’s Freshwater and Brackish-Water Fishes: a Popular Account
Amphibians and Reptiles of Delmarva
National Wildlife Federation Teacher Packets and Posters
DNS Newsletter Nature’s Voice
DNS seasonal program brochures for School programs, Group programs and Members programs

Programs Offered
Summer Graduate Teachers Courses
Offered through the University of Delaware for those with a master's degree seeking intensive professional development through a course of study approved for a plus 15 salary increment.

ENWC 501 Natural History for Teachers 3 Credits
Background information, methods, and materials for covering basic concepts of ecology, environmental problems, field natural history, particularly as applicable to Delaware. Lecture and discussions supplement outdoor studies in the field, forest, stream and estuary.

SCEN 567 Delaware’s Ecosystems 3 Credits
Learn the basics of ecosystem structure and function while comparing Delaware’s major ecosystems in the field. Integration with ecosystem and wetland kits, science standards and performance indicators; use of field technology; international ecological connections; associated environmental issues.

EDUC 643 Environmental Education 3 Credits
Survey of and practice with existing environmental education materials and programs; the development of lessons in environmental education; practical experience with a curriculum development and teaching procedures.

EDUC 808 Internship in Education 3 Credits
Permission required by instructor Helen Fischel – 302-239-2334, ext. 114 or helen@delawarenaturesociety.org

(Continued)
Student Aquatic Programs

Aquatic Habitats  Grades K-3  1 ½ Hours  $4/ Student
Use your senses to explore a marsh, pond, and stream and discover the importance of water as a habitat. Observe animal adaptations and the stages of life cycles as we investigate these habitats.

Marsh Walk  Grades K-5  1 Hour  $5/ Student
Using nets, our senses and soil samplers, venture into a marsh to discover how this habitat helps a diverse group of animals survive. Come eye to eye with native live turtles, frogs, and snakes from our collection and learn about their adaptations.

Spring Amphibians  Grades K-8  1 ½ Hours  $5/ Student
Explore the world of amphibians during the time when they are chorusing and laying eggs. Learn how amphibians in Delaware survive the seasons. Using nets and other collecting equipment, look for these exciting animals and the food that they might eat.

Pond Ecology  Grades 4-12  2 Hours  $7/ Student
Using dip nets, collect a variety of aquatic organisms found in the pond. Examine the structures of pond organisms that help them survive in their environment. Identify and classify macro-invertebrates and create a pond food web. Use individual microscopes and a video microscope to view organisms in your samples.

Stream Ecology  Grades 4-12  2 Hours  $7/ Student
Determine a stream’s health by examining its biological, chemical, and physical attributes. Catch and classify stream macro-invertebrates, and use test kits to record pH and oxygen. Discuss pollution types affecting the Red Clay Creek.

Watershed  Grades 6-8  2 ½ Hours  $8/ Student
Evaluate the environmental quality of the Red Clay Creek at Ashland Nature Center of Burrows Run at Burrows Run Preserve. Classify existing land uses, survey macro-invertebrates, test pH, dissolved oxygen, and nitrate levels. Measure soil loss in the watershed by examining stream sedimentation and bank scouring. Plant trees to contribute to stream health.

Springs and Streams  Grades 6-12  2 Hours  $6/ Student
Visit two springs to test and compare them chemically, physically, and biologically. Follow the flow of water downstream and record the changes—biological and physical—as they flow towards Burrows Run. Included in the program cost is a teacher naturalist visit to your school to prepare your students for the trip.

Paddling the Dragon  Grades 6-12  4 Hours  $32/ Student
Canoe Dragon Run, a freshwater marsh near Delaware City, home to bald eagles, beaver, muskrats, herons and egrets. Hike along its shore and survey plant and animal life to discover the functions and importance of wetlands. Canoes, paddles and life preservers provided, no canoeing experience required.

Student Summer Science Enrichment Programs

Freshwater Aquatic Biology (For students entering grade 6 & 7)
Explore and study freshwater systems. Canoe Brandywine River, use collecting equipment to survey streams/marshes/ponds; dissect fish, maintain individual aquariums and conduct research on a component of freshwater biology. This program is offered in partnership with the Department of Education. Registration through Ashland Nature Center – (302) 239-2334.

Estuarine Ecology (For students entering grade 7 & 8)
Explore and study ocean, bay, and tidal areas. Explore a saltmarsh by canoe, collect brackish and salt water organisms, visit University of Delaware's marine biology lab, conduct an experiment on a component of the Delaware estuary, and dissect shark, squid, and bony fish. This program is offered in partnership with the Department of Education. Registration through Abbott’s Mill Nature Center – (302) 422-0847.
Awbury Arboretum
Jennifer Karsten, Education Coordinator
Francis Cope House, 1 Awbury Road
Philadelphia, PA 19138-1505
(215) 849-2855 x14, Fax #: (215) 849-0213
E-mail: Jennifer@awbury.org
Website: www.awbury.org

Mission
Our mission is to preserve and interpret Awbury's historic house and landscape, thereby connecting an urban community with nature and history.

Materials Available
A free Teacher's Information Packet is sent when a trip is scheduled. The packet included pre and post-trip activities.

Programs Offered (see website for PA Standards Info and program details)

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<tr>
<th>Program</th>
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<td>Nature's Recycling II</td>
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<td>2-5</td>
<td>$4/student</td>
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<tr>
<td>Words at Work</td>
<td>5-8</td>
<td>$4/student</td>
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Native American Loan Box—$25 for 2-week rental, plus $25 deposit against loss and damages

Bayshore Discovery Project
Diane Stephenson, Scheduler
2800 High Street (Bivalve)
Port Norris, NJ 08349
(856) 785-2060 x103, Fax #: (856) 785-2893
E-mail: info@bayshorediscovery.org
Website: www.bayshorediscovery.org

Organization Description:
The Bayshore Discovery Project is located in Bivalve, NJ – the former ‘oyster capital of the world’. Our mission is to motivate people to take care of the environment, the history and the culture of New Jersey’s Bayshore region through education, preservation and example. To this end we offer educational sail programs onboard the historic 1928 oyster schooner A.J. Meerwald, guided educational tours of a local 4,200 acre salt marsh, and guided educational tours through the Delaware Bay Museum housed in the historic Bivalve Shipping Sheds.

Materials Available:
To prepare students and enhance their experience onboard the A.J. Meerwald, a packet of classroom materials and resources is mailed to the teacher. These materials cover the ‘Learning Stations’ that include watershed connections, schooner A.J. Meerwald and the oyster industry, estuarine species, oysters and oystering, water quality, plankton, food webs, energy cycling, petroleum and wetlands. This packet addresses New Jersey Core Curriculum standards in social studies, science and mathematics. The ‘what to expect onboard’ section prepares teachers and students to get the most from their sail.

Programs Offered:
BDP offers a 3-hour interactive hands-on Education Sail for 40 students and 5 chaperones onboard our floating classroom the A.J. Meerwald for $725 from April through October.
We also offer 3-hour Bivalve Discovery Tours consisting of a 2-hour guided tour of the local salt marsh and a 1-hour guided tour of the Delaware Bay Museum. This program is often combined with the education sail making it a full day for students for $900. The Bivalve Discovery Tour stands alone as an educational program for 20 students ($190) or 40 students ($375).
BDP staff tailors programs to meet a school’s need that may include maritime industry tours, math, or any particular discipline within estuary sciences.
Berks County Conservancy

Tami Shimp, Director of Development
25 N. 11th Street
Reading, PA 19601
(610) 372-4992, Fax #: (610) 372-2917
E-mail: Info@berks-conservancy.org
Website: www.berks-conservancy.org

Mission
The Berks County Conservancy is the leading agent for the conservation of the environment in Berks County. Our work includes serving as a land trust, conducting watershed restoration, land protection, and conservation of natural and historical resources.

Programs Offered
Conservancy staff members will visit schools to speak about water quality issues, natural habitats, land protection, smart growth (conservation sensitive development). Travel expenses apply. Materials are available based upon the needs of the presentation.

Bicycle Coalition of the Delaware Valley

100 South Broad Street, Suite 1355
Philadelphia, PA 19110
(215) Bicycle, Fax #: (267) 514-2324
E-mail: info@bicyclecoalition.org

Mission
To promote and extend the opportunities to travel safely by bicycle through education and advocacy.

See Website for event schedules and materials available
Bombay Hook National Wildlife Refuge

Tina Watson, Outdoor Recreation Planner  
2591 Whitehall Neck Road  
Smyrna, DE 19977  
(302) 653-6872, Fax #: (302) 653-0684  
Website:  http://www.fws.gov/northeast/bombayhook/

Mission  
The primary mission of Bombay Hook National Wildlife Refuge is to provide resting and feeding habitat for migratory waterfowl, migratory shorebirds, and other migratory bird species, while also maximizing habitat for non-migratory, resident birds, mammals, reptiles, amphibians, and plant life. Our programs educate about wildlife and habitat conservation and the National Wildlife Refuge System.

Materials Available (all at no charge)
Bombay Hook NWR brochure  
Environmental Education Materials Packet: Wetlands  
Bombay Hook NWR Auto Tour brochure Lesson  
Plan 1: Freshwater Marsh Investigations  
Bombay Hook NWR Bird checklist Lesson  
Plan 2: Salt Marsh Investigations  
Boardwalk Trail brochure Lesson  
Plan 3: Delaware Bay Estuary Investigations  
Bear Swamp Trail brochure Lesson  
Plan 4: Forest Investigations  
Parson Point Trail brochure

Programs Offered (free to schools)
A wildlife management tour of the refuge describing management techniques used on the refuge to enhance habitat for wildlife (can be self-guided). There are nature walks covering various ecological topics emphasizing wetland value and identifying wildlife and their signs. Trails range from ¼ to 1 mile in length. Four habitat studies are available for grades three through twelve. These studies identify specimens found in these habitats and define the characteristics of each habitat. Groups can select from the following habitats:

Freshwater Lesson Plan:  Students use dip nets to capture and study aquatic specimens. May include water quality analysis.

Brackish and Salt Marsh Lesson Plan:  Students use dip nets to capture and study brackish water specimens. May include water quality analysis.

Bay Lesson Plan:  In the fall students use a seine net to capture specimens found in Delaware Bay. In the spring the horseshoe crab and shorebird connection is studied. May include water quality analysis.

Forest Lesson Plan:  Students search the forest floor for specimens and determine species identification and characteristics.

A video on the National Wildlife Refuge System is available. Presentations on wildlife and habitat conservation may also be available with advanced notice. All programs require reservations. Teacher workshops are available.
Brandywine Valley Association (BVA)

Giselle Cosentino, Education Director
1760 Unionville-Wawaset Road
West Chester, PA 19380
(610) 793-1090, Fax #: (610) 793-2813
E-mail: gisellec@bva-rcva.org
Website: www.brandywinewatershed.org

Organization Description
The Brandywine Valley Association is the oldest small watershed organization in the country. Its mission is to promote the restoration, preservation, conservation and enjoyment of the natural resources of the Brandywine Valley Watershed through educational programs, environmental studies, projects and technological advocacy.

Materials Available
In-service learning opportunities are available throughout the year for teachers. Stipend and credit courses are offered to college students in the science or education fields. All training focuses on how to teach environmental education in an outdoor, hands-on, experiential manner using the Pennsylvania Academic Standards in Environment and Ecology. Free teacher kits and resources are available to participants in certain workshops. Contact Connie Shapiro, Director of Teacher Training, at connies@bva-rcva.org for more information.

Programs Offered
More than fifty on-site and outreach programs are offered for ages 4-18. Prices per student range from $5 to $10. All programs are correlated to the Pennsylvania Academic Standards in Environment and Ecology as well as Science and Technology. Programs include habitat exploration, watershed and wetland programs and Brandywine Creek water quality studies and canoe trips. On-site programs take place at the Myrick Conservation Center, a 318-acre property located six miles west of West Chester and three miles east of Unionville, PA. Programs are also offered at our Saalbach Farm facility, just miles from downtown Coatesville, PA. The Association also offers Summer Camp and Homeschool Science programs. Visit our website for program and pricing details.

Additional Education Opportunities: The Association hosts a Local Issues Series for municipal leaders and also offers professional seminars and adult workshops related to protecting our water resources.
Brandywine Zoo

Jill Karlson, Curator of Education
1001 North Park Drive
Wilmington, DE  19802
(302) 571-7850 x208,  Fax #: (302) 571-7480
E-mail:  jill.karlson@state.de.us
Website:  www.brandywinezoo.org

Mission
The Brandywine Zoo’s Education Department Mission is to enhance and enrich peoples’ understanding and respect of the complex relationships among all living things and inspire wildlife conservation.

Brandywine Zoo is located in beautiful Brandywine Park in Wilmington, DE. Delaware's only zoo is open 365 days a year, 10 a.m.-4 p.m. The zoo is home to a variety of species of mammals, birds, reptiles, and amphibians from North and South America and temperate Asia.

Programs Offered
Teacher In-service Programs and Workshops through the Delaware Teacher Center; Cargo for Conservation Loan Kit; Ocean Resource Kit; Coral Reef Resource Kit; Habitats “Realm of the Tiger” Resource Kit. Kits are free to use, however a deposit on some may be required.

Formal education programs are developed to provide Delaware students with engaging, entertaining and science standards-based programs that enhance and enrich Delaware’s curriculum based on National Science Standards and Delaware Performance Indicators.

On-Site Programs: Discovery Tours such as Fabulous Five, Creature Categories, ZOOrganisms, Animal Adaptations, Tropical Rainforest Trek, Dem Bones, Saving Species, Structures of Live, Zoo Drama, Animal Classification, Zoo To Do’s, BiodiverZOOty, Seasons of Change. Fee: $4 or $5 per person, scholarships available.

Outreach Programs: Traveling Zoo Programs such as Senses, Jungle, Adaptations, Pet’s-Farm-or Wild?, “The Mitten”, “My Little Sister Ate One Hare,” “The Day Jimmy’s Boa Ate the Wash,” Mammals, Happenin’ Habitats, Food Chain, What’s for Dinner?, Endangered, Snakes-Toads and more, Zoo Careers. $4 per person, scholarships available.
Briar Bush Nature Center

Description of Organization
Briar Bush is a 12 acre nature center that includes a windmill-fed pond, bird observatory, native wildflower gardens and nature trails. The museum at Briar Bush contains a simulated Pennsylvania cave, hands-on exhibits, reference library, live animal displays, an observation beehive and more. BBNC provides environmental education to individuals and groups of all ages through on-site and outreach experiences.

Materials Available
Edu Crates/Loan boxes—$25 per week
Research Library and Videos

Programs Offered
1 hr. @ $50 for Abington Schools, 1 hr. @ $75 for non-Abington Schools
1 hr. @ $200 for StarLab (portable planetarium)
Fees will differ depending on length of program and multiple hours of programming.
Trail Hikes; Programs: Animal (Critters to Kids, Reptiles Are the Rage, Worlds Most Wanted, etc.), Native American (Lenape Living, Primitive Skills, etc.), Pond Study, Scouts
Ages: Range from 18 month old children through Middle School children

Bucks County Audubon Society (BCAS) / Honey Hollow Environmental Education Center

Mission
Our mission is to foster an awareness, understanding, and above all, a sense of stewardship of the environment.

Organization Description
The Bucks County Audubon Society (BCAS) is a private, non-profit organization founded as a chapter of the National Audubon Society in 1969. Since its inception, BCAS has been dedicated to conserving wildlife, promoting awareness of environmental problems, watching birds, educating the community about the interdependence of humans and their world, and furthering the wise use of land, air, and water.

The Honey Hollow Environmental Education Center is located on the Honey Hollow Watershed in Solebury Township. The Center is open to school and community groups for educational programs throughout the year. Because of the early conservation work carried out by local farmers and the Soil Conservation Service, the entire watershed of the Honey Hollow Creek was designated as a National Historic Landmark in 1969. It remains the only agriculturally based National Historic Landmark in the United States. Educational programs have been conducted here for over 60 years. The land is owned jointly by the Bucks County Audubon Society, Heritage Conservancy and the Crooks family. The Center is operated by the Bucks County Audubon Society.

(Continued)
**Materials Available:**
Pre and post trip materials that compliment lessons at Honey Hollow Environmental Education Center

**Programs offered:**
School Class Trips: $5.00/student ($60 minimum)
Classroom Outreach: $125
Topics include: Insects, Wetlands and Watersheds, Animal Evidence, etc.
All classes help teachers address the PA State Standards for ecology and the environment

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**Bucks County Conservation District**

Mary Ellen Noonan, Environmental Educator
1456 Ferry Road, Suite 704
Doylestown, PA 18901
(215) 345-7577  Fax #: 215-345-7584
E-mail: maryellennoonan@bucksccd.org
Website: www.bucksccd.org

**Mission**
To provide for the wise use, management and development of Bucks County soil, water and related natural resources.

**Materials Available**
Various videos on soil and water resources.

**Programs Offered**
Bucks County Envirothon
Programs on soil and watersheds—call for information

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**Cape May County Department of Mosquito Control**

Peter Bosak, Director / Entomologist
P.O. Box 66
Cape May Court House, NJ 08210
(609) 465-9038  Fax #: (609) 465-7228 (or 4109)

**Mission**
To perform mosquito research and control in the most environmentally sound, economically feasible, legal, safe and effective way possible.

**Materials Available**
We have a number of handouts and fact sheets available at no charge.

**Programs Offered**
Two programs are offered at this time: Mosquito Biology and a general Introduction to Entomology. Trips to our facility are preferred for the most complete program, but can also be done at your facility.
Cape May-Lewes Ferry
Charisse Rudolph, Customer Service Manager
P.O. Box 827
N. Cape May, NJ 08204
(609) 889-7255  Fax #: (609) 886-1021
E-mail: charisse.rudolph@drba.net
Website: www.capemaylewesferry.com

Mission
To provide the most professional delivery of transportation and tourism services to our customers, ashore and afloat, to ensure that their experience with us will be regarded as “the best ride in America”; to be so much fun that all our customers will praise our effort; and that our operation will be safe and on-time as it becomes standard for the industry.

Materials Available
Lighthouse Pete Coloring Book  Free

Programs Offered
Land Tour  Free
Round-Trip Boat Ride (Foot Passenger)  $6.00 per person

Cape May National Wildlife Refuge
Howard Schlegel, Refuge Manager
24 Kimbles Beach Road
Cape May Court House, NJ 08210
(609) 463-0994  Fax #: (609) 463-1667
Website: www.fws.gov/northeast/capemay

Mission
To preserve important habitat for hundreds of thousands of migratory birds which pass through each year. Birds include shorebirds, raptors, woodcock, waterfowl and songbirds.

Materials Available
Posters
Various Brochures
Handouts
Educational Guides

Programs Offered
Public use trails are available for wildlife observation, education, and interpretation with interpretive signs.
Mission
To educate the general public about natural systems and the way they function. In addition the CCEEC hopes to instill values, attitudes, and behaviors that will best conserve and improve our environment.

Materials Available
A loan library of books, videos, slides and natural specimens are available without charge. Also water test kits are available for loan.

Programs Offered
Birds of Prey
Snakes & Reptiles
Bats: Fact & Fiction
The Changing Earth
Insects
Seeds & Plants
Food Chains
Stream Study
A variety of programs are offered, and are tailored to meet the needs of individual groups. Programs range in price from $67-$225 depending on location and number of participants.

Annual Events
Busy Bodies
Cornfield Maze
Annual Rafting Trek
Envirothon
Conservation Camp
Creepy Crawlers
Ranger Rick Club
Recycling Contest
Center in the Park/Senior Environmental Corps (CIP/SEC)

Fred Lewis, Volunteer Coordinator
Johnnie Henderson, Program Coordinator
5818 Germantown Avenue
Philadelphia, PA 19144
(215) 848-7722  Fax #: (215) 848-0979
E-mail: fleevis@centerinthepark.org
Website: http://www.centerinthepark.org/prog-sec.html

Organization Description
Center in the Park Senior Environment Corps provides opportunities for older adults to play active, visible roles in protecting and improving the environment. Volunteers monitor the water quality of the Wissahickon Creek and its tributaries promoting the restoration, preservation and stewardship of the Lower Wissahickon Watershed through educational programming, community outreach initiatives, data collection activities, and field trips.

Materials Available
- Local maps and historical information
- Water quality database (Wissahickon, Monoshone, Cresheim, and Rock Creeks), protocols and test kits
- Classroom materials
- GLOBE Program support

Programs Offered
Partnerships with local public and private schools to enhance the classroom curriculum with hands-on activities, educational resources, community service opportunities, and field trips. Programs and projects are tailored to fulfill individual school requests and accommodate CIPSEC volunteers. Please call for more information.

Chester County Parks & Recreation Department

Glenn Nelson, Education Coordinator
601 Westtown Road, #160
P.O. Box 2747
West Chester, PA 19380-0990
(610) 344-6415  Fax #: (610) 344-5469
E-mail: gnelson@Chesco.org
Website: www.chesco.org/ccparks

Mission
To preserve large tracts of open space for public use while providing educational programs and recreational facilities.

Programs Offered
Environmental and cultural education programs are provided to increase awareness of natural and cultural resources and encourage the conservation of these resources. Customized wetlands & watershed education programs are available to schools with design to help Pennsylvania teachers meet the new Department of Education Wetland Standard for 4th, 7th, 10th & 12th grades.
Chester Ridley Crum Watersheds Association

Anne Murphy, Executive Director
c/o Ridley Creek Sate Park
1023 Sycamore Mills Road
Media, PA  19063
610-892-8731  Fax #:  610-892-8732
E-mail:  crc@nni.com
Website:  www.crcwatersheds.org

Organization Description
Nonprofit watershed organization working towards the protection and enhancement of land and water resources in Chester and Delaware counties, Pennsylvania.

Programs Offered
Limited number of programs available, please call for listings and costs.

Citizens for Pennsylvania’s Future (PennFuture)

Christine Knapp, Eastern Pennsylvania Outreach Coordinator
1518 Walnut Street, Suite 1100
Philadelphia, PA  19102
(215) 545-9692  Fax #: (215) 545-9637
E-mail:  knapp@pennfuture.org
Website:  www.pennfuture.org

Organization Description
PennFuture works to create a just future where nature, communities, and the economy thrive.

Programs Offered
Speakers are available to give presentations or conduct workshops. Please visit our website for the Speakers Bureau list.
Coalition for Natural Stream Valleys, Inc.
Dorothy P. Miller, Corresponding Secretary/Treasurer
430 Orchard Road
Newark, DE 19711-5137
(302) 366-8059

Mission
To promote the wise use of and/or preservation of natural stream valleys. A true coalition, members include most of the major conservation organizations in the region.

Programs Offered
The Coalition is happy to talk to anyone with an interest in White Clay Creek or other stream valley regions.

Conserve Wildlife Foundation of NJ
Maria Grace, Education and Outreach Manager
501 E. State Street, PO Box 400
Trenton, NJ 08625-0400
(609) 984-0621 Fax #: (609) 984-1414
Email: maria.grace@conservewildlifenj.org
Website: www.conservewildlifenj.org

Organization Description
The Conserve Wildlife Foundation of NJ is dedicated to conserving and protecting NJ’s rare, threatened, and endangered species.

Materials Available
Reptile and Amphibian Resource Package for Teachers (includes curriculum guide, 2 CD’s, and 2 field guides) = $24.95 plus S&H
The Peregrine Falcon Project Curriculum Guide = FREE
CD of Frog and Toad Calls of NJ = $10.00 plus S&H
Field guide to NJ’s reptiles and amphibians = $10.00 plus S&H

Programs Offered
Inservices and Professional Development workshops focusing on NJ’s rare, threatened, and endangered wildlife vary in price but average $40 donations per teacher.
Classroom/School programs about NJ’s rare, threatened, and endangered wildlife vary in price but average $150 donations.
Please visit www.conservewildlifenj.org for more information or call (609) 984-0621
Cumberland-Salem Conservation District

Garry Timberman, District Manager
1516 Route 77
PO Box 68
Deerfield, NJ 08313
(856) 451-2422 Fax #: (856) 451-1358
E-mail: cumbsoil@aol.com
Website: http://cumberland-soil.deeweb.com

Description of Organization
Enforcement of State law for soil erosion.

Materials Available
Pamphlets

D&R Greenway Land Trust
Friends for the Marsh

Linda Mead, Executive Director
One Preservation Place
Princeton, NJ 08540
(609) 924-4646 Fax #: (609) 924-5577
E-mail: info@drgreenway.org
Website: www.drgreenway.org; www.marsh-friends.org

Organization Description
Founded in 1989, D&R Greenway Land Trust is central New Jersey’s non-profit land preservation organization. D&R Greenway Land Trust's mission is to: Preserve and protect a permanent network of natural lands and open spaces, creating the conditions for a healthy and diverse environment to flourish; Provide the public with appropriate access to these areas, encouraging active lifestyles and a greater appreciation of the natural world; Inspire a conservation ethic promoting policies, educational programs and partnerships that result in a public commitment to land preservation.

Friends for the Marsh formed in 2002 under the aegis of D&R Greenway to expand educational & outdoor programs at the Hamilton-Trenton-Bordentown Marsh, and develop a nature center.

Materials Available
Various print materials including Greenways, D&R Greenway’s newsletter (available at www.drgreenway.org), the Hamilton-Trenton-Bordentown Marsh brochure, and A Ride with the Tide through the Marsh canoe and kayak trail guide.

Programs Offered
The Good Time Galas for the Greenway provide opportunities to have a great time all year long while raising funds to protect our treasured open space. In fact, many of the Galas take place on land preserved by D&R Greenway. Please visit www.drgreenway.org/good_time_galas.html for more information.

Nature walks, kayak trips, and art shows organized by Friends for the Marsh are listed at www.marsh-friends.org.
Delaware Aquatic Resources Education Center

Gary Kreamer, Bob Jones, Trina Cale-Rosario
4876 Hay Point Landing Road
Smyrna, DE 19977
(302) 653-2882 Fax #: (302) 653-3431
E-mails: gary.kreamer@state.de.us, robert.jones@state.de.us, trina.rosario@state.de.us

Mission
To increase public awareness of and appreciation for Delaware’s aquatic resources; to provide educators with opportunities, resources and knowledge to assist with development and delivery of wetlands education programs statewide; to increase public understanding of aquatic resource use and management issues and provide opportunities for activities in stewardship of those resources.

Materials Available (all programs are free)
Workshops and loan kits for hands-on learning about Delaware wetlands, along with workshops and curricula for fisheries education are available. There are also workshops and support materials for horseshoe crab/shorebird education and for groups participating in the state’s successful Adopt-a-Wetland Program. Facilities, field equipment, loan kits, and assorted informational and curricular materials are available upon request at the Center and through participation at the various workshops described below.

Programs Offered
ARE Center Facilities Use: contact Janet Dennis, Administrative Assistant, 302-653-2882 x113, janet.dennis@state.de.us
Located in the scenic Woodland Beach Wildlife Area on the marshlands bordering Delaware Bay - the ARE faciliies complex – including conference rooms, overnight lodge (with 40 beds), pavilion, 940-foot salt marsh boardwalk trail, anch-and-release fishing ponds, and assorted other habitats and amenities - are available year-round to school, youth and other groups, free-of-charge for aquatic education related usage. Group leader attendance at a three-hour facilities use orientation workshop is required for use/booking privileges. An optional Facilities 2 training provides educators with a notebook of lesson plans for over 50 loan activity kits (keyed to DE curriculum standards) available for use by visiting groups.

Hooked on Fishing – Not on Drugs (HOFNOD): contact Robert Jones, Aquatic Education Training Administrator, 302-653-3441, or robert.jones@state.de.us
This project offers training and support, as well as access to loaner equipment and a nationally-recognized curriculum (sponsored by the Future Fishing Foundation), to school teachers and other youth leaders, towards the goal of providing fishing experiences and developing positive life skills for today’s youth.

Eco-Explorers Field Trip Programs: contact Mary Rivera, Eco-Explorers Field Program Coordinator, 302-653-2882 x115, or mary.rivera@state.de.us
These programs are available fall and spring at the AREC to 5th grade classes statewide as an extension of the Smithsonian Ecosystems classroom curriculum. Students rotate in small groups through a series of hands-on, inquiry-based “Eco-Stations”, each focusing on different components of the tidal salt marsh system. Throughout the 3-hour program, students are challenged to gather, record and interpret data about the ecosystem, explore adaptations of plants and animals to conditions there, and role play the work of scientists in surveying such habitats. Extensive pre-trip, post-trip, and assessment materials are provided to participating teachers. Field activities are facilitated with the help of trained college interns & volunteers.

Green Eggs & Sand (Horseshoe Crab/Shorebird Education Project): contact Gary Kreamer, Aquatic Education Training Administrator, 302-653-2882 x114, or gary.kreamer@state.de.us
This award-winning project provides area educators with field experiences and an interdisciplinary, activity-and-video-rich curriculum package (keyed to national curriculum standards) developed to explore the Delaware Bay horseshoe crab/shorebird phenomenon and the management controversy surrounding it. Through a unique coalition of state (DE/MD/NJ) natural resource agencies, environmental education centers, non-profit organizations and teachers, four sequential learning modules have been developed, each featuring an introductory video “teaser”, followed by a series of interactive exercises that deepen student understanding of the concepts and issues. Workshops are held each spring coastwide, including one on Delaware Bay. As part of the program, teachers are offered instruction and tips on how to hatch, grow, and care for juvenile horseshoe crabs in the classroom.

(Continued)
WADE (Wetland Activities for Delaware Educators): contact Gary Kreamer, Aquatic Education Training Administrator, 302-653-2882 x114, gary.kreamer@state.de.us
WADE consists of a set of eight innovative, interactive, self-contained, curriculum-standard-correlated, learning stations, developed to provide grade 4-8 teachers with an effective hands-on tool for “WADE-ing” into wetland education. Kits are available for free (two-week) loan, contingent upon teacher attendance at a 6-hour WADE workshop (offered annually). Copies of the WADE teacher’s guide and the popular “WOW! The Wonders of Wetlands” activity book are provided free to workshop participants.

Junior Duck Stamp (JDS) Art Design Competition: contact Trina Cale-Rosario, Volunteer Services Coordinator, 302-653-2882 x104, or trina.rosario@state.de.us
Co-sponsored by the Delaware Greenwings Planning Committee and Friends of Kent County Ducks Unlimited, this popular program provides an opportunity for K-12 students throughout Delaware to participate in a national art competition keyed to native waterfowl and wetland values. Artwork is judged in K-3, 4-6, 7-9 and 10-12 grade categories, with various prizes awarded and the state “Best of Show” entered into the National Federal JDS Competition. Contest entry packets (due on March 15 of every year) curriculum materials and sponsorship brochures are available through the AREC.

Adopt-a-Wetland (AAW) Program: contact Marlene Mervine, Adopt-a-Wetland Program Coordinator, 302-653-2882 x109, or marlene.mervine@state.de.us
This is a volunteer-oriented program aimed at promoting public awareness of wetland values and functions, while offering opportunities for citizen-based monitoring and stewardship of these precious Delaware resources. Coordination, support, and training are provided through Delaware AREC, in partnership with the Division of Water Resources Watresheds and Wetlands Sections, and with the help of dedicated volunteer coordinators in each county. Special training workshops for veteran, new and potential “adopters” are offered annually at the AREC. Two 20-25 minute video programs: one describing “The Wealth & Worth of Delaware Wetlands”, the other profiling the “Working for Wetlands” efforts of AAW adopters, are available for group loan. Adoption group leaders are provided with a comprehensive Adopters Guidebook and access to 5 different resource-rich loan kits for wetland monitoring.

Certified Citizen Naturalist (CCN) volunteer program: contact Trina Cale-Rosario, Volunteer Services Coordinator, 302-653-2882 x104, or trina.rosario@state.de.us
This exciting Delaware program is geared, as a learn-and-serve initiative, to creating a network of volunteers who are trained as specialists for assisting with various projects that enhance Delaware’s environment and natural resources. This network promotes communication between and among Delaware’s communities, while assisting state scientists, educators, and managers in monitoring, restoring and protecting wildlife populations and habitats. Workshops, specialized training, guides and other informational materials are provided jointly through the Delaware Division of Fish and Wildlife’s Aquatic Education, Wildlife and Natural Heritage programs.

Delaware Audubon Society
PO Box 1713
Wilmington, DE  19899
(302) 428-3959
E-mail:  dasmail@delawareaudubon.org
Website:  www.delawareaudubon.org

Organization Description
Incorporated in 1977, the Delaware Audubon Society is a statewide chapter of the National Audubon Society. Delaware Audubon is dedicated to developing a better appreciation of our natural environment and working for species and habitat conservation. We advocate for environmental issues; and sponsor programs, field trips and school education. Our focus is on protection of the Delaware Bay and the Coastal Zone.

Please see website for program and material details.
Delaware Bay Institute, Inc.

Joseph Lomax, President
PO Box 57
Cape May Court House, NJ 08210
(609) 465-9300
E-mail: delawarebayinst@earthlink.net

Organization Description
Nonprofit corporation dedicated to education, research and public service in the Delaware Estuary.

Programs Offered
Lectures: Origin and Ecology of the Delaware Estuary, Safety in the field, Wildlife of the Delaware Estuary
Field trips to teach the teacher: Horseshoe crabs and shorebirds, Estuarine Ecology

Delaware Center for Horticulture

Sarah Deacle, Education Manager
1810 N. Dupont Street
Wilmington, DE 19806
(302) 658-6262 x36 Fax #: (302) 658-6267
E-mail: sdeacle@dehort.org
Website: www.dehort.org

Organization Description
We’re a non-profit community resource organization dedicated to promoting knowledge and appreciation of gardening, horticulture, and conservation. DCH’s two community program areas–Educational Programs and Greening Initiatives– focus on the greening of our urban environment and include educational programs for children, teens, and adults. Our work includes community gardens, public landscaping, roadside beautification, tree programs, and community events.

Materials Available
Several lighted grow labs available for loan (maintenance/materials fee). School garden resource books to loan. Tree-related curricula provided to schools participating in Arbor Day programs.

Programs Offered
Arbor Day programs offered in partnership with Wilmington Department of Parks & Recreation for Wilmington Schools. Garden, Tree, and Plant Science classroom programs available ($100 per class fee, negotiable).

Delaware Department of Natural Resources and Environmental Control (DNREC)

Jennifer Holmes, DE Project WET Coordinator
4008 N. DuPont Highway, Suite A
Georgetown, DE 19947
(302) 739-9921 or (302) 856-5488
E-mail: jennifer.holmes@state.de.us

Mission
To protect and manage the states’ vital natural resources, protect public health and safety, provide quality outdoor recreation and to serve and educate the citizens of the First State about the wise use, conservation and enhancement of Delaware’s environment.

Programs Offered
Project WET (2.5 credit)
National Project WET is an interdisciplinary water education program intended to supplement an educator’s existing curriculum. The goal is to facilitate and promote the awareness, appreciation, knowledge, and stewardship of water resources through the dissemination of classroom-ready teaching aids. Teachers K-12 can obtain the guides by attending in-service workshops.
Delaware Department of Natural Resources and Environmental Control
Division of Water Resources

Kevin C. Donnelly, Director
89 Kings Highway
Dover, DE 19901
(302) 739-9949
E-mail: kevin.donnelly@state.de.us
Website: www.dnrec.state.de.us

Mission
To protect and enhance the quality and quantity of Delaware’s water and wetlands.

Materials Available
Informative and educational materials available on TMDLs, water quality, wells, water supply, wetlands, wastewater treatment and disposal, groundwater and environmental laboratory testing and analysis. No charge for materials.

Programs Offered
Technical staff available for classroom presentations on any of the above topics.

Delaware State Parks

Ray Bivens, Chief of Interpretation and Environmental Education
152 South State Street
Dover, DE 19901
(302) 739-9191  Fax #: (302) 739-6967
E-mail: raymond.bivens@state.de.us
Website: www.destateparks.com

Mission
To provide Delaware’s residents and visitors with safe and enjoyable recreational opportunities and open spaces, responsible stewardship of the lands and the cultural and natural resources that we have been entrusted to protect and manage, and resource-based interpretive and educational services.

Programs Offered
Onsite environmental and historical programming
Outreach environmental and historical programming
Overnight programming
Red Cross Canoe Certification, Guided kayak, canoe and pontoon trips

Programs vary from park to park and seasonally. Please check website or contact individual nature center for programs.

Bellevue S.P.  Dorothy Payton  (302) 793-3046
Brandywine Creek S.P.  Barbara Woodford  (302) 655-5740
Brandywine Zoo  Jill Karlson  (302) 571-7788
Cape Henlopen S.P.  Richard Julian  (302) 645-6852
Delaware Seashore S.P.  Jim Hall  (302) 227-6991
Fort Delaware S.P.  George Contant  (302) 834-7941
Killens Pond S.P.  Matt Ritter  (302) 284-4526
Lums Pond S.P.  Angel Burns  (302) 836-1724
Port Penn Interpretive Center  George Contant  (302) 836-2533
Trap Pond S.P.  Matt Ritter  (302) 875-5163
White Clay Creek S.P.  Angel Burns  (302) 368-6560
Wilmington State Parks  Barbara Woodford  (302) 577-7020
Delaware Division of Parks and Recreation - Fort Delaware State Park

Becky Webb, Park Superintendent
P.O. Box 170
Delaware City, DE 19706
(302) 834-7941, Fax #: (302) 836-2539
E-mail: william.koth@state.de.us

Organization Description
A Civil War prisoner of war site.

Materials Available
Teaching with Delaware’s Historic Places Packet with activities
Fort Delaware Illustrated Program Guide

Programs Offered
Interactive Living History Tour
Children’s Infantry Drill and Musketry Demonstration
Heavy Artillery Battery Drill
The Fort Delaware Laundress
The African-American Experience at Fort Delaware
Civil War Games
Behind the Scenes Tour
Hands-on Blacksmithing
Civil War Cooking
Civil War Photography
Political Prisoners at Fort Delaware: Rev. Isaac Handy
Herons & History Walk
Programs on living history are available at Fort Delaware on Pea Patch Island, end of April through September. Contact the park office for reservations and exact days and hours of operation.

Events
Days of Blue and Gray
Candlelight Ghost Tours
Memorial Day: Reawakening and Remembrance
Appetites for Apparitions
Halloween Ghost Tours
4th of July Picnic
Camp of Instruction
Field Music School

IMPORTANT NOTE: Fort Delaware will be closing after July 31, 2006 for restoration. The Fort will reopen on weekends as of the last weekend in April, 2007.
**Delaware Forest Service**

Ashley Warde, Trainer/Educator  
2320 S. Dupont Highway  
Dover, DE  19901  
(302) 698-4551  Fax #: (302) 697-6245  
E-mail: ashley.ward@state.de.us  
Website: www.state.de.us/deptagri/forestry/index.shtml

**Organization Description**  
The DFS has two education centers (Blackbird and Redden) that are free of charge. Project Learning Tree workshops provide teachers with an environmental education curriculum that can reinforce and compliment the K-5 FOSS science kits.

**Programs Offered**  
In-class programs (free)  
Project Learning Tree workshops (free)

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**Delaware Museum of Natural History**

Stephen Reynolds, Director of Education and Public Programming  
4840 Kennett Pike  
P.O. Box 3937  
Wilmington, DE 19807  
(302) 658-9111 x 306  Fax #: (302) 658-2610  
E-mail: SReynolds@delmnh.org  
Website: www.delmnh.org

**Mission**  
To excite and inform people about the natural world. The main focus of our collection is birds, mollusks and mammals from around the world, however, our programs span a variety of natural history topics.

**Materials Available**  
Loan Kits on a variety of topics  
Teacher In-Services

**Programs Offered**  
Guided ($6/child) and self guided ($5/child) tours through the galleries on a variety of topics.  
Outreaches (Please call Bonnie Jones, Outreach Coordinator, for prices)  
Pre-Tour Activities
Delaware National Estuarine Research Reserve

Kate Marvel, Estuarine Educator
Katy O’Connell, Education Coordinator
818 Kitts Hummock Road
Dover, DE 19901
(302) 739-3436  Fax #: (302) 739-3444
E-mail:  kmarvel@state.de.us
Website: http://www.dnrec.state.de.us/DNREC2000/Divisions/Soil/DNERR

Mission
To provide students with an opportunity to learn what makes an estuary unique and provide them with the tools to make difficult decisions about the future of these valuable resources.

Materials Available
Pre and post-visit activities at no charge.

Programs Offered
Muckless Marsh Walk
A walking tour of the reserve. Values and functions of estuaries, watershed health, and wetland ecology are discussed. Students will identify plants and animals of the tidal marsh ecosystem.

Watershed Pollution and Water Quality
Focus on the water cycle, watersheds and the difference between point and non-point source pollution. Students conduct water quality tests to determine the health of the St. Jones River Estuary.

Beach Ecology
A look at the relationship of plants and animals and how they adapt to dunes, sandy beaches and coastal water zones. Activities include beach combing and seining. Takes place at North Bowers Beach.

Boat Trip—Salt to Fresh
Limited to small groups:  13 maximum canoe trip (ages 12 and up)
15 maximum boat trip, 24’ Carolina Skiff (ages 4 and up)
Students sample water, discuss salinity changes and learn about the tidal process. Area history and local flora and fauna are discussed.

People and the Land
Students learn how Native Americans and colonists lived off the land making use of the plants, animals and other natural resources on this Reserve trail hike.

A Fishy Situation
Students look at how the form of an estuarine fish correlates to its function for survival. An instructor dissects a fish and explains internal adaptations for living in the estuarine environment.

Horseshoe Crabs are for the Birds
Investigation of the management issues of and the scientific relationships between horseshoe crabs, shorebirds and humans through hands-on problem solving activities. May and June are best suited for this program.

Outreach Programs Offered
Introduction to the Estuary
Slide presentation and age appropriate activities. Plants and animals are involved depending upon their availability.

Non-Point Source Pollution/Watersheds
Students will learn to identify non-point sources of pollution and understand the health of a watershed. Pollution prevention techniques are discussed so that students may begin to take action themselves.

Horseshoe Crabs
Discussion of the crab’s anatomy, life history, ecological and economic importance, and possible reasons for their recent decline. Live horseshoe crabs are included depending on their seasonal availability.
Delaware Nature Society (DNS)

P.O. Box 700
Barley Mill & Brackenville Roads
Hockessin, DE 19707
Phone #: (302) 239-2334, Fax #: (302) 239-2473
E-mail: webpage@dnsashland.org
Website: www.delawarenaturesociety.org

Organization Description
The Delaware Nature Society, a non-profit membership organization, fosters understanding, appreciation, and enjoyment of the natural world through education; preserves ecologically significant areas; and advocates stewardship and conservation of natural resources.

We maintain two nature centers, Abbott’s Mill Nature Center (Milford) and Ashland Nature Center (Hockessin), and manage four nature preserves for biodiversity, research and educational programs: Burrows Run Preserve/Coverdale Farm, Flint Woods Preserve, Marvel Saltmarsh Preserve, and Cedar Bog Preserve. The Nature Society is an affiliate of the National Wildlife Federation, offering input on national issues that concern citizens in our region.

Please see the individual listings for Ashland Nature Center and Abbott’s Mill Nature Center elsewhere in this guide for information about materials and programs.

Delaware River Basin Commission (DRBC)

Clarke Rupert, Communications Manager
25 State Police Drive
P.O. Box 7360
West Trenton, NJ 08628
(609) 883-9500 x260, Fax #: (609) 883-9522
E-mail: clarke.rupert@drbc.state.nj.us
Website: www.drbc.net

Organization Description
The DRBC was formed by compact in 1961, marking the first time that the federal government and a group of states joined together as equal partners in a river basin planning, development, and regulatory agency. The commission is responsible for water resources management of the 13,539-square-mile river basin, which stretches over 300 miles from the Delaware River’s headwaters in the Catskill Mountains of New York State to the mouth of the Delaware Bay where it meets the Atlantic Ocean. DRBC programs include pollution control, water supply and conservation, drought management, flood loss reduction, regulatory review (permitting), watershed planning, and education/outreach. The commission members are the governors of the four basin states (Delaware, New Jersey, New York, and Pennsylvania) and a federal representative appointed by the president.

Materials Available
Annual (and other) reports
Flyers on a variety of interesting topics related to the watershed (baseball rubbing mud, etc…)
Maps
Bookmarks (bald eagle and American shad)
Customized packets
Ed. Web – This special section of the DRBC website helps teachers and students of all ages learn about the Delaware River Basin and general water issues. It features many useful links to other education-related sites and can be found at www.drbc-edweb.net.

Programs Offered
No formal programs are offered, but every effort is made to fill requests for speakers.
Delaware River Steamboat Floating Classroom

Bart Hoebel, Professor
207 Harley Avenue
Princeton, NJ 08540
(609) 921-6612  Fax #: (609) 258-1113
E-mail: info@steamboatclassroom.org
Website: www.steamboatclassroom.org

Organization Description
Come aboard steamboat “SPLASH” (Student Participation in Learning Aquatic Science & History) and embark on a voyage of learning! Professional crew helps you with environment-based teaching of science, social studies and/or technology. Splash boards in Lambertville, NJ and carries 49 passengers on covered and open decks. A replica of a local 1880 steamboat, SPLASH is a Coast Guard certified vessel. Programs (covering everything from “patriots to plankton” can be tailored for any school or youth group.

Materials Available
Project WET Seminar on the Steamboat (by Kevin Koop) $50 for one day
Lesson Plans—Environment based education in most school disciplines

Programs Offered
2-hour educational, fun trips from Lambertville, NJ or New Hope, PA. Cost varies—typically $19 per person, $695 min. Longer and shorter trips are available.
Delaware Riverkeeper Network

P.O. Box 326
Washington Crossing, PA 18977-0326
(215) 369-1188 Fax: (215) 369-1181
E-mail: drkn@delawareriverkeeper.org
Website: www.delawareriverkeeper.org

Mission
The Delaware Riverkeeper is the voice of the Delaware River and its streams, championing their rights as living members of our community, and is leader for the Delaware Riverkeeper Network. The Delaware Riverkeeper and the Delaware Riverkeeper Network stand as vigilant protectors and defenders of the River, its tributaries and its watershed committed to restoring the natural balance where it has been lost and ensuring its preservation where it still exists.

Materials Available
25 Ways to Protect Your Stream and Streamside Property - A free brochure designed to help homeowners improve their management of streamside properties. Includes a list of plants and riparian buffers.

Stream Restoration in Pennsylvania: Ten Case Studies - A 76 page full color booklet outlining restoration projects. ($5.00, one copy free to nonprofits or watershed groups)

Adopt-A-Buffer Toolkit - A manual, designed for the Delaware Riverkeeper Network's Adopt-A-Buffer Initiative and other programs that implement stream restoration projects, that includes a menu of low-cost, effective monitoring protocols and maintenance fact sheets that can be used to ensure the success of stream restoration projects (call for price & availability info).

Muddy Waters: A Citizen’s Guide to Investigating and Reducing Sediment Pollution - A detailed guide to promote understanding about erosion and sediment control issues (Cost $10.00).

Stormwater Runoff: Lost Resource or Community Asset? A Guide to Preventing, Capturing and Recovering Stormwater Runoff - A user-friendly guide to preventing, capturing and recovering stormwater and reducing flooding and pollution (Cost: $15.00).

In Defense of Watersheds: protecting your community from flooding without dams, including case study: "The Demise of the Dark Hollow Dam" - This publication explains how nonstructural solutions and preventive conservation efforts work better and provides a step by step guide for how to make better alternatives a reality in your community (Cost: $5 for CD; $15 for complete printed document with Appendix; or $10 for printed document without Appendix).

Abandoned Mine Drainage in the Schuylkill River’s Headwaters - A free reprint based on a 5-part series from our quarterly newsletter, River Rapids.

Also, a variety of issue fact sheets and background information on watersheds can be found at www.delawareriverkeeper.org.
Delaware Valley Earth Force

Colleen Contrisciane, Program Coordinator
100 Greenwood Avenue
Wyncote, PA 19095
(215) 884-9888 Fax#: (215) 884-9895
E-mail: c.contri@verizon.net
Website: www.earthforce.org

Mission
To engage young people as active citizens who improve the environment and their communities now and in the future. Founded in 1999, DVEF works with teachers and youth leaders in schools and after school sites in southeastern Pennsylvania.

Materials Available
Teacher/leader manual with lesson plans, student manuals, student skill building Tips Cards, Force for Change Video, Protecting Our Watersheds Manual and Posters (connecting water quality analysis with action to improve water quality), access to our network of professionals and experts in the environmental field, opportunities for recognition, kick off activities with youth, options for additional activities (including participation in the Earth Force Youth Summit), networking events with other teachers and project support. Wherever possible, Earth Force secures funding to make these resources available without charge to teachers who make a commitment to complete an Earth Force project.

Programs Offered
CAPS, the Earth Force Community Action and Problem Solving program, engages youth in applying academic knowledge to local environmental problem solving. After investigating local environmental issues and resources, CAPS participants select a problem to address and work to make a long-term improvement in their environment and community through a service project. This project-based framework provides a meaningful and relevant context that motivates students with a real-world purpose for developing literacy, problem solving and citizenship skills. CAPS is appropriate for schools and after-school programs that serve upper elementary, middle, and high school students. Earth Force provides educators and after school leaders with professional development in CAPS, outstanding materials, and ongoing support as they implement the program with their students or youth groups. CAPS provides an effective and coherent framework for addressing Pennsylvania Academic Standards for Reading, Writing, Listening, and Speaking, and for Environment and Ecology. Delaware Valley Earth Force provides Act 48 credits to all teachers who complete CAPS trainings or attend Earth Force teacher workshops.

Delaware Valley Regional Planning Commission

ACP Building, 8th Floor
190 N. Independence Mall West
Philadelphia, PA 19106
(215) 238-2873 Fax #: (215) 592-9125
E-mail: clinn@dvrpc.org
Website: www.dvrpc.org

Organization Description
Created in 1965, the Delaware Valley Regional Planning Commission (DVRPC) is an interstate, intercounty and intercity agency, which provides continuing, comprehensive and coordinated planning to shape a vision for the future growth of the Delaware Valley region. The region includes Bucks, Chester, Delaware, Montgomery and Philadelphia counties in Pennsylvania; and Burlington, Camden, Gloucester, and Mercer counties in New Jersey. DVRPC provides technical assistance and services; conducts high priority studies that respond to the requests and demands of member state and local governments; fosters cooperation among various constituents to forge a consensus on diverse regional issues; determines and meets the needs of the private sector; and practices public outreach efforts to promote two-way communication and public awareness of regional issues and the Commission. Working across state, county, and city lines, DVRPC advises on regional policy and capital funding issues such as transportation, economic development, the environment, and land use.

DVRPC is also the administrative agency for the Delaware Estuary component of the Pennsylvania Coastal Zone Management (CZM) program. The PA CZM program is the result of federal legislation enabling all coastal states to obtain federal funds to manage their coastlines in an environmentally sound manner. CZM grants aim to improve water quality, preserve natural, historic and cultural resources, improve public access to coastal waters, promote watershed management and educate the public about coastal resources.
East Falls Tree Tenders

Cynthia Kishinchand, Coordinator
3114 W. Coulter Street
Philadelphia, PA  19129-1002
(215) 849-2474  Fax #: (215) 849-2474
E-mail:  crk3114@msn.com

Organization Description
Neighborhood volunteer organization

Mission
To restore East Falls’ urban forest and to generate environmental stewardship.

Programs Offered
“Street Tree” slide presentation (no charge, however, honorariums are appreciated)

Ecological Research & Development Group, Inc. (ERDG)

Glenn Gauvry, President
931 Nassau Road
Lewes, DE  19958
(302) 644-8129
E-mail: ERDG@horseshoecrab.org
Website: www.horseshoecrab.org

Description of Organization
A 501c3 nonprofit organization dedicated to the conservation of the world’s four remaining horseshoe crab species.

Materials Available
Educational brochures on horseshoe crabs, no charge
Life-size anatomical horseshoe crab model for sale via web site “Company Store”

Programs Offered
In-classroom presentation, “Horseshoe Crab Conservation and the Arts” (fee based)
Annual student language and visual arts competition (no charge)
Annual student art show (no charge)
Educational Information and Resource Center (EIRC)

Erik Mollenhauer  
606 Delsea Drive  
Sewell, NJ 08080  
(856) 582-7000 Fax: (856) 582-4206  
E-mail: erikm@eirc.org  
Website: http://www.eirc.org

Mission
Provide educational programs and services to schools and communities in New Jersey and beyond.

Programs Offered
A New Jersey public agency with a 38-year history, EIRC provides educational programs and services to teachers, school administrators, students and parents. A number of EIRC programs have received national awards and are used by schools in many other states and countries. EIRC provides an array of workshops and professional development experiences for teachers and educators throughout the year, both at its facility in Gloucester County (20 minutes from the Walt Whitman Bridge) and off-site at various New Jersey locations and other states. These experiences range from single day workshops to longer-term institutes and courses. Staff also provides curriculum services and programs directly to schools and maintains a lending library of educational materials at its facility.

A number of EIRC science and social studies programs feature environmental issues. Since 1990, nearly 1,000 teachers from 38 states and provinces have participated in EIRC’s Earth Education/Hands Across the Water program with Australia, Costa Rica, England, Japan, Mexico, Netherlands, New Zealand, Russia or Sweden. EIRC staff also coordinates NJ Teachers for Biodiversity, a network of educators interested in bringing biodiversity issues to the classroom. In the past four years EIRC has trained nearly 900 elementary and middle school teachers from NJ, DE, PA, MD, NY, OH, CT, Ontario and Manitoba to use Monarch Butterflies as an exciting, hands-on, cross-content teaching tool. These teachers are supported through a growing Monarch Teacher Network that shares information and enables distance learning between US, Canada and Mexico classrooms (by 2050 one of four Americans will be Hispanic in origin). EIRC collaborates with many local, state, regional and national environmental and education organizations to carry out its programs and is collaborating with NASA to bring a Challenger Space Education Center to southern NJ.
Environmental Youth Education Services, Inc.

Kevin Kopp, President
1269 Harrow Crescent
Yardley, PA  19067
(215) 321-3930  Fax #:  (215) 321-3930
E-Mail:  kkopp.eyes@comcast.net
Website:  eyeshome.com

Description of Organization
E.Y.E.S. Inc. seeks to open and enhance the idea that all education can be environmental education. Our mission is to help educators, students, and the general public explore and develop avenues for becoming aware and knowledgeable of their relationship to the environment. This awareness and knowledge will move them to become actively involved in the protection and enhancement of the Earth for humans, plants and animals.

Material Available
Project WET
Project Learning Tree
Project Wild
Earth Matters
Counting on People
Curriculum design and evaluation—fees variable, Program design and evaluation—fees variable

Programs Offered
Teacher Training Workshops

The Water All Around You! - $350 per show

Interactive Field Trips—2 hours each, $85 per class
MARSH MEANDERS: Who Cares About the Muddy Marsh? What does it do for me? Through a discussion of natural filtration, biodiversity, and reproductive habitat, students will learn the value of clean water and the importance of the Hamilton/Trenton Marsh. Through water testing and specimen collection, students will investigate the health of the marsh. Site: The Hamilton/Trenton Marsh

LIVELY WATERS: Where Does Water Come From? Through a discussion of the water cycle, nonpoint source pollution, and human impact, students will learn the value of clean water. Through water testing and specimen collection, students will investigate the health of the site. Site: A small pond or stream near your school.

The Delaware and Raritan Canal—Past, Present and Future: How did that funny looking river get there? During a walk along the D&R Canal, participants will learn canal history and water use, and students will learn the value of clean water and the importance of the D&R Canal to Trenton, NJ. Site: The Delaware & Raritan Canal
Fairmount Park Commission
Environment, Stewardship & Education Division

Debbie Carr, Director of Environmental Education
One Parkway, 10th Floor
1515 Arch Street
Philadelphia, PA 19102
(215) 683-0218

Mission
To utilize the unique resources of Fairmount Park to promote environmental understanding, appreciation, and stewardship. From neighborhood to region to world, our actions impact our environment and our environment impacts our quality of life.

Education Centers
Wissahickon Environmental Center (See Listing in this Guide)
Pennypack Environmental Center, 8600A Verree Road at Pennypack Creek, Philadelphia, PA 19115, 215 685-0470
Fox Chase Farm, 8500 Pine Road (at Pennypack Creek between Shady Lane and Bloomfield Avenue) Call (215) 685-0470 for public programs, and (215) 728-5008 for school group programs

Programs Offered
On-site field trips, outreach programs, summer nature camps, service learning opportunities, watershed education, restoration projects, public programs including bird walks, plant walks, campfires, and special events including maple sugar day, sheep shearing, applefest, holiday greens sales.

Federation of Gloucester County Watersheds

Christine Nolan, Program Manager
P. O. Box 233
Glassboro, NJ 08028
(856) 881-2269
E-mail: Contact@sjwatersheds.org
Website: www.sjwatersheds.org

Mission
Preserve and protect the water resources and land within the watersheds of Gloucester County and adjoining areas through public education, advocacy, increased scientific understanding, and habitat preservation.

Materials Available
Free Teachers Guide to the Watersheds of Gloucester County
Free copy or downloadable link on our website

Programs Offered
List of events on our website
On-going Programs: Classroom presentation of Watersheds & Water Pollution, and storm drain labeling program
Fort Mercer/Red Bank Battlefield at National Park

Megan Giordano, Museum Curator
Gloucester County Parks and Recreation
6 Blackwood-Barnsboro Road
Sewell, NJ 08080
(856) 853-5720

Mission
To preserve and interpret the history of the James and Ann Whitall House, Fort Mercer/Red Bank Battlefield, located on the Delaware River (New Jersey side) as it affected the lives of the family whose land was used to create Fort Mercer in Revolutionary Times. To share the rich heritage and impact of the house used as a field hospital after the 2nd successful battle.

Programs Offered (at no charge)
The house and site, which are located on the Delaware River opposite Fort Mifflin, are available as a learning laboratory for a wide variety of ways to utilize sight resources. Also offered are tours, educational programs and exhibits concerning the utilization of the Delaware River and its impact on 18th Century lives to present, focusing on food, transportation and trade, how it functions and the fascinating life that dwells within.

Fort Mifflin

Lee Anderson
1 Fort Mifflin Road
Philadelphia, PA 19153
(215) 685-4167 Fax #: (215) 685-4166
E-mail: lee.anderson@phila.gov
Web site: www.fortmifflin.com

Mission
To develop, preserve and interpret Fort Mifflin as a National Historic Landmark whose unique history, original fabric and surrounding environment will be protected and used to educate and enrich students and families, and serve as a significant regional tourist resource.
Freehold Soil Conservation District

Karen Rowe, Education Coordinator
4000 Kozloski Road—PO Box 5033
Freehold, NJ 07728-5033
(732) 683-8500  Fax: (732) 683-9140
E-mail: info@freeholdscd.org
Website: www.freeholdscd.org

Organization Description:
Freehold Soil Conservation District is part of the New Jersey Conservation Partnership. Our goal is to provide leadership and to administer programs to help people conserve, improve, and sustain our natural resources and environment. As a conservation district we offer a variety of services to residents of Middlesex and Monmouth Counties.

Materials Available:
We provide an assortment of natural resource activity books, coloring books and literature for residents of Middlesex and Monmouth Counties, at no charge. We also have a videotape lending library with a varied selection of environmentally related topics.

Programs Offered:
We tailor programs for schools and groups on an as requested basis, usually geared toward 20-30 students at a time. We have a tabletop Enviroscape Model that vividly depicts the effects of non-point source pollution. We sponsor annual poster and bumper sticker contests, provide three $1,000 college scholarships and are the host district for the 2006 New Jersey Envirothon competition. No charge for programs.

Friends of the Manayunk Canal (FMC)

Nicole Galdieri, President
450 Shurs Lane
Philadelphia, PA 19128
(215) 508-4343
E-mail: fmc@manayunkcanal.org
Website: www.manayunkcanal.org

Organization Description
Friends of the Manayunk Canal (FMC) is grass-roots "Friends of Fairmount Park" group that was organized in the Spring of 1996 to provide stewardship to Manayunk's parkland, which is adjacent to the Schuylkill River and consists of Venice Island, the Manayunk Canal and the Towpath. Friends of the Manayunk Canal is dedicated to the protection, restoration and preservation of the natural and historical resources of these areas. It is our goal to promote and maintain our cultural resources through public education programs, community volunteerism and advocacy. We are committed to citizenry actions that respect and support the fundamental balance between cultural history, the natural environment and humanity. Most recently, FMC has played an active role in advocating for more responsible land use on Venice Island, as the area has faced tremendous development pressures, to insure the protection of our watershed and riverfront resources.

Materials Available
Historical information on the website including maps, articles and photographs. Additionally, there are archived articles of the past, present and future challenges facing the area.

Programs Offered
Check our website for the latest schedule of events. Annually have historical/environmental tour, dog ownership awareness event and clean ups.
Friends of Poquessing Watershed, Inc.

Donna Smith-Remick, President
PO Box 63264
Philadelphia, PA 19114-8264
(215) 638-0832, Fax #: (215) 638-0832
Website: www.FriendsofPoquessing.org

Organization Description
Dedicated to the conservation and beautification of the Poquessing Creek and its environs.

Friends of Tacony Creek Park

Fred Maurer, Vice President, Conservation Issues
645 Brill Street
Philadelphia, PA 19120
(215) 324-8942, Fax #: (215) 745-3463
E-mail: hkranz@netzero.net

Mission
Conservation and representation of Tacony Creek Park and waterway.

Materials Available
Newsletter is available (one free) with a membership fee of $15 annually or $25 for two years.

Local history book of Tacony Creek Watershed, 204 pages ($20.00 + $3 s&h)

Programs Offered
Volunteer opportunities are available for community service
Lecture at book sales
Facilitator for Fairmount Park education programs
**Friends of the Wissahickon**

Tom Pelikan, Executive Director  
8708 Germantown Avenue  
Philadelphia, PA 19118  
(215) 247-0417  Fax #: (215) 247-9329  
E-mail: pelikan@fow.org  
Website: www.fow.org

**Mission**  
To preserve the natural beauty and wildness of the Wissahickon Valley and stimulate public interest therein.

**Materials Available**  
Trail Map of the Wissahickon Valley ($6)  
Archive of historical documents and photos of the Wissahickon ($4 charge per use)  
List of invasive and indigenous plants  
Bird list

**Programs Offered**  
The Friends is a volunteer “watchdog” group that works in the park. There are no formal programs.

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**Gloucester County Nature Club**

Deb Maka  
619 Quincy Street  
Glassboro, NJ 08028  
(856) 863-0330  
Website: www.gcnatureclub.org

**Mission**  
To promote sound conservation practices and to educate people about nature and the environment.

**Organization Description**  
A private, nonprofit 501c3 group made up of residents, all volunteers, of Gloucester and surrounding counties who share a common interest, curiosity, and love of the natural world.

**Programs Offered**—all open to the public and include people of all ages  
Monthly programs on various topics  
Monthly field trips to regional sites  
Gloucester County Bird Quest (May)  
Gloucester County Vulture Festival (Feb/March)  
Gloucester County Christmas Bird Count (December)
Great Swamp Outdoor Education Center

Jenny Gaus, Asst, Superintendent of Environmental Education
247 Southern Boulevard
Chatham, NJ 07928
(973) 635-6629  Fax #: (973) 701-0193
E-mail: jgaus@morrisparks.net
Website: www.morrisparks.net

Mission Statement
The GSOEC is dedicated to proving the residents of Morris County and beyond with high quality educational programs on myriad natural history topics. Emphasis is placed on instilling responsible values and developing a kinship with the natural world.

Materials Available
Pre and Post-Trip Lesson Plans related to our school lesson offerings

Programs Offered
1 to 2 hour school lessons $100 per class (depending on lesson)
Scout programs $50.00 for up to 15, $75 for up to 25
Public programs on a wide variety of topics for all ages, year round

Green Valleys Association
Dawn Kauffman, Director of Education
1368 Prizer Road
Pottstown, PA 19465
(610) 469-8646  Fax #: (610) 469-4990
E-mail: dkauffman@greenvalleys.org
Website: www.greenvalleys.org

Organization Description
Green Valleys Association is a nonprofit organization founded in 1964 to protect the watersheds of Northern Chester County.

Mission Statement
To protect the lands and waters of the Northern Chester County region; educate the community on environmental issues; advocate environmental guidelines that will preserve the watersheds of our region.

Materials available
Environmental education resources for lessons (free)

Programs Offered
PA Environment and Ecology Standards classroom outreach program (fee)
Teacher training (fee)
Adult/family programs
Scouts
Summer camp
Volunteer opportunities
Haskin Shellfish Lab – Rutgers University

Kathryn A. Ashton-Alcox, Field Researcher III
6959 Miller Avenue
Port Norris, NJ  08349-9736
(856) 785-0074 x4322  Fax #: (856) 785-1544

Organization Description
The Haskin Shellfish Research Laboratory (HSRL), located at Bivalve and Cape Shore on the Delaware Bay, is a New Jersey Agricultural Experiment Station (NJAES) and a field station for the Institute of Marine and Coastal Sciences (IMCS) both located at Cook College, Rutgers University. This dual role permits HSRL to draw upon the strengths of both research results, and working cooperatively with state and federal agencies and the fisheries and aquaculture communities in southern New Jersey. The close ties to state agencies and the fisheries industry are exemplified by an office of the New Jersey Department of Environmental Protection housed within its Bivalve facility, and the history of frequent meetings of the various shellfish organizations. HSRL generates and disseminates research information directly applicable to all aspects of fisheries and aquaculture science, concentrating on species of commercial importance to New Jersey. The HSRL maintains two facilities, one in Bivalve and one at Cape Shore. A third facility, being built in Cape May, will be a commercial-scale Multispecies Aquaculture Demonstration Facility (MADF). This facility will be a commercial scale finfish and shellfish aquaculture facility and will be coordinated with the hatchery program at Cape Shore and research program at Bivalve. The MADF will provide a fully equipped hatchery building and nursery facility for shellfish and finfish, ponds for finfish grow-out, and leased grounds in Delaware Bay and along the eastern New Jersey coast for shellfish grow-out. An associated facility located on Cape May Harbor houses the MADF administrative office, and dormitory space for 8 people.

The Bivalve facility has well-equipped laboratories for investigations on microbiology, histopathology, shell structure, shellfish physiology and pathophysiology, analytical chemistry, cytogenetics, and biochemistry, as well as a dark room, wet laboratory and docking facilities. A shellfish modeling program is also housed at Bivalve. A number of small research vessels, including the 11 m (Eddy), 8 m (Veliger) and 7 m (Swirl) support in site investigations and periodic surveys. Associated dormitories house 16 people at Bivalve and 12 people at Cape Shore.

The Cape Shore field station adjacent to the tidal flats of Cape May County is the location of a shellfish hatchery and grow-out site, and is the focal point for the HSRL oyster genetics program. In addition to supporting aquaculture development and research, the Cape Shore facility has served as a base for ecological studies, ranging from nutrition in Laughing Gull chicks to the ecology of Horseshoe Crabs, and as a base for training summer interns in marine biology.

Materials Available
Handouts on the Delaware Bay
Information about oysters

Programs Offered
Tours of the labs and facilities are available with no fee.
Hawk Mountain Sanctuary

Keith L. Bildstein, Director of Conservation Science
410 Summer Valley Road
Orwigsburg, PA 17961
(570) 943-3411 x108  Fax #: (570) 943-2284
Web site: www.hawkmountain.org

Mission
To protect raptors worldwide.

Materials Available

Enjoying Hawk Mountain Teacher Guide
Grades 6-8  $35
“Enjoying Hawk Mountain” was developed to help schools implement local, regional, and national science guidelines and requirements. The guide covers two subject areas, raptors and the central Appalachian Mountain forest. The latter includes topics such as animals, pond life, geology, and Hawk Mountain history. Teachers are encouraged to use the Sanctuary to teach about the natural environment.

The Return of Magic
Grades 3-5  $10.00
A children’s story book that follows the development of a young American Kestrel on his first migration.

Raptors of Hawk Mountain
Grades 1-3  $6.00
A coloring book with text that introduces children to birds of prey, their ecology, and how to identify them.

Programs Offered

Birding with Binoculars
3-4 Hours  $100 + $3/student
This program begins in the Common Room with a 30-minute video presentation introducing you to raptors and the Hawk Mountain story; then it’s into the field to learn how to use binoculars to identify raptors and other wildlife. Naturalists lead a hike to one of the Sanctuary’s lookouts where students can practice their newly learned binocular skills to spot and identify real raptors on migration. On the way to the lookout, you will stop to observe and learn about trees, wildflowers, migratory songbirds, mushrooms, insects, and other Appalachian flora and fauna.

The Acorn Project
3-4 Hours  $100 + $3/student
Oak trees and acorns are used to introduce students to Appalachian Mountain habitat, biology and ecology. The program begins with a 30-minute video presentation introducing you to the Hawk Mountain story and then it’s into the woods on an acorn scavenger hunt or other outdoor activity.

Raptors Over the Ridge
45 Minutes  $25 + $3/student
How did Hawk Mountain become a Sanctuary? What brings so many raptors to Hawk Mountain in the fall? Just what is a raptor? This program answers these and other questions about birds of prey and Hawk Mountain Sanctuary.

Other programs are available on special request.
Hidden River Venture

Suzanne Marinell, Director
3174 Colony Lane
Plymouth Meeting, PA 19462
(610) 828-1895
E-mail: smarinel@localnet.com

Organization Description
A nonprofit unit of Resources for Human Development, Inc. Hidden River Venture is a place where children happily learn about art and nature and how the two disciplines can closely relate to each other. They learn to view their community as important for its natural assets, especially provided by the Schuylkill River, and as a place where art is vital and exciting.

Programs Offered
After school programs for small groups of children, 6-10, combining art and nature activities and focusing on the Schuylkill River. Outreach programs to schools and community organizations are available. Fees vary.

Historic Bartram’s Garden

Melanie Snyder, Director of Education
54th Street & Lindbergh Blvd.
Philadelphia, PA 19143
(215) 729-5281 x104   Fax: (215) 729-1047
E-mail: msnyder@bartramsgarden.org
Website: www.bartramsgarden.org

Mission
The John Bartram Association preserves, interprets, and enhances Bartram's Garden and its National Historical Landmark Bartram House; and builds awareness of the Bartram legacy of botany, art and natural science.

Materials Available
Teachers' packets are available with field trips (no charge)

Programs Offered
Colonial naturalist John Bartram's 45-acre farm on the grassy banks of the Schuylkill River provides a unique and fun outdoor classroom for quality education programs in natural history, colonial history and environmental science. Kids really enjoy learning here! Classes and programs are available all year for pre-school through high school students. Choose from a variety of programs including cider-making, botanical illustration, apiculture, ornithology, Native Americans, archaeology, colonial food preparation, medicinal herbs and more.

Program Information: Length: 90-120 minutes   Time: Lessons begin at 10 a.m. Monday-Friday, rain or shine.
Indoor activities provided during inclement weather. Group Size: Minimum 15, maximum 75. Fee: $4.00 per student.

Traveling Trunk Programs:
Bartram's Garden also offers several Traveling Trunk Programs. Let our costumed interpreter come to your school or organization and provide hands-on activities and demonstrations on Colonial Candlemaking, Native American Life, Bartram's Travels, Medicinal Herbs and Environmental Education. The $100 fee includes all materials for up to 35 students. 1-2 hours.
Mission
To preserve open space and natural resources, provide state parks and facilities and offer educational and recreational opportunities, all contributing to an enhanced quality of life for present and future generations.

Materials Available
HARBINGER – Hunterdon County Park System Newsletter
Maps and guides for park properties

Programs Offered
Seasonal Nature Walk 1-1½ Hours ½-1½ Miles $1/student
An old fashioned walk with a naturalist to point out natural features, wildlife and interesting plants.

Birding 1½-2 Hours Grades 3+ $30
Students will learn the basics of how to identify birds, what interesting behavior to look for, and how to find them, then they will hike through the park to look at them.

Stream Study 1½-2 Hours Grades 1+ $30
Available April through September at Echo Hill. Participants “wet their feet” finding and identifying stream creatures. They will learn how their findings indicate water quality.

Fishing Clinic 2 Hours Grades 1+ $30 + $1/person for bait
Learn the basics of fishing, including safety, equipment, how to cast, taking fish off the hook, and more. Includes plenty of time to practice in the pond. A limited number of fishing rods are available to borrow. The park system will provide bait, hooks, weights and bobbers.

Other nature topics and annual maple sugaring program are also available. Call for details.
Independence Seaport Museum

Bill Ward, Museum Educator
Penn’s Landing
211 S. Columbus Blvd. & Walnut St.
Philadelphia, PA 19106-3199
(215) 413-8649  Fax #: (215) 925-6713

Mission
To collect, preserve, exhibit and make available art, artifacts and archival materials pertaining to the rich maritime history and traditions of the Delaware River, bay and tributaries.

Materials Available
Teacher Packets are sent upon request.

Programs Offered
Whales and Whalers
The Urban Ecologist
Explorers of the Delaware
Please call (215) 413-8630 to schedule a lesson.

Iron Hill Museum
Delaware Academy of Science

Laura M. Lee, Museum Director
1355 Old Baltimore Pike
Newark, DE 19702
(302) 368-5703  Fax #: (302) 369-4287
E-mail: ironhillmuseum@verizon.net
Website:  www.ironhillmuseum.org

Mission
To serve as the primary educational resource for the study of human and natural history in the Iron Hill region. Our programs, collections, and library interpret the relationships between the people and the land.

Materials Available
Educator’s Guide to Programs at the Iron Hill Museum  no charge
State Education Standards Guide  no charge

Programs Offered
Field Trips  1 ½ Hours  $4.50/student
In-class Programs  $4.50/student + $10 travel fee
All-day Earth Science Field Trip  $225/class of 30
Isles, Inc.

Kevin Kopp, Environmental Education Consultant
10 Wood Street
Trenton, NJ 08618
(609) 341-4738  Fax #: (609) 393-9513
E-mail: kkopp.eyes@comcast.net

Mission
To foster community development through self-help programs such as environmental education, community gardening, affordable housing, community outreach and at-risk job training. Isles, Inc. promotes individual and community empowerment, helping people see the positive results of their own efforts.

Programs Offered
Water Watch Series:  2 Hours Each  Ages 11-15  no fee
The Lively Pond
Through a discussion of the water cycle, students will learn the value of clean water and the importance of the ponds to Cadwalader Park. Through water testing and specimen collection, students will investigate the health of the ponds.

The Delaware and Raritan Canal Past, Present and Future
Through a discussion of the canal history and water use, students will learn the value of clean water and the importance of the Delaware and Raritan Canal to Trenton. Through water testing and specimen collection, students will investigate the health of Delaware and Raritan Canal.

Marsh Meanders
Through a discussion of natural filtration, biodiversity and reproductive habitat, students will learn the value of clean water and the importance of the Hamilton/Trenton Marsh to Trenton. Through water testing and specimen collection, students will investigate the health of the Hamilton/Trenton Marsh.

James and Ann Whithall House

Megan Giordano, Museum Curator
Gloucester County Parks and Recreation
6 Blackwood-Barnsboro Road
Sewell, NJ 08080
(856) 853-5720

Mission
To preserve and interpret the history of the James and Ann Whitall House, Fort Mercer/Red Bank Battlefield, located on the Delaware River (New Jersey side) as it affected the lives of the family whose land was used to create Fort Mercer in Revolutionary Times. To share the rich heritage and impact of the house used as a field hospital after the 2nd successful battle.

Programs Offered (at no charge)
The house and site, which are located on the Delaware River opposite Fort Mifflin, are available as a learning laboratory for a wide variety of ways to utilize sight resources. Also offered are tours, educational programs and exhibits concerning the utilization of the Delaware River and its impact on 18th Century lives to present, focusing on food, transportation and trade, how the river functions, and the fascinating life that dwells within it.
Jacques Cousteau National Estuarine Research Reserve
Jacques Cousteau Coastal Education Center

Janice McDonnell, Education Coordinator & Lisa Auermuller, Coastal Training Programs Coordinator
130 Great Bay Boulevard
Tuckerton, NJ 08087
(609) 812-0649  Fax #: (609) 294-8597
E-mail: Janice McDonnell - mcdonnel@marine.rutgers.edu and Lisa Auermuller – auermull@marine.rutgers.edu
Web site: www.jcnerr.org

Organization Description
The JCNERR supports education, stewardship and research activities to promote the best management and protection of estuarine resources in southern New Jersey, in particular, the Mullica River/Great Bay watershed. The education programs of the JCNERR are designed to enhance public understanding of the estuarine habitats and basic scientific principles, and to provide K-12 educators with scientific content, pedagogy and curriculum resources to integrate marine and environmental concepts into existing class curricula. The JCNERR accomplishes this goal with support from its managing agency, the Institute of Marine and Coastal Services at Rutgers University, as well as other partners, including the NJ Department of Environmental Protection, the U.S. Fish & Wildlife Service, the Pinelands Commission, Richard Stockton College, and the Tuckerton Seaport.

Materials Available
A variety of materials are available to teachers in conjunction with professional development opportunities offered throughout the JCNERR, including curricula, books, posters, CD-ROMs, and field and classroom equipment. Copies of brochures detailing professional development opportunities for educators are available upon request.

Programs Offered
MARE (Marine Activities, Resources and Education) - K-8 whole-school program that capitalizes on students’ natural fascination with the ocean as a vehicle for creative learning across subjects. A summer institute is held every August and supplementary MARE programs are offered throughout the year.

The COOL Classroom (www.coolclassroom.org)- an Internet-based collection of lesson plans that feature the technology and real-time data used by oceanographers at the Rutgers University Coastal Ocean Observation Lab (COOL). On-line lessons for middle and high school teach basic life, earth and physical science concepts and skills.

Kalmar Nyckel Foundation

Aundrea Y. Trader, Development Director
1124 E. 7th Street
Wilmington, DE 19801
(302) 429-7447  Fax #: (302) 429-0350
E-mail: education@kalnyk.org
Website: www.kalnyc.org

Organization Description
The Kalmar Nyckel Foundation is a not-for-profit educational corporation chartered by the State of Delaware in 1986. The Foundation launched the Kalmar Nyckel in 1997. An authentic re-creation of the 17th century vessel that carried the first permanent European settlers to the Delaware Valley, the tall ship Kalmar Nyckel serves as an educational outreach tool to thousands of school children and families throughout Delaware and the northeast region.

Materials Available
Pre-visit Teachers Information Package (sent when tour is scheduled)
Videos on the history of the Kalmar Nyckel ($20)
Various books (starting at $10)

Programs Offered
Deck and Shipyard Tours (language arts, social studies, math, and science standards)
Student Sails on the Christina River and the Delaware Bay (language arts, social studies, math, and science standards)
Kent Conservation District
Michelle Jacobs, Administrative Manager
800 Bay Road, Suite 2
Dover, DE 19901
(302) 741-2600 x3 Fax #: (302) 741-0347
Website: www.kentcd.org

Description of Organization
The Kent Conservation District is a governmental subdivision of the state of Delaware. The District functions to focus attention on land, water and related resource problems; develop programs to solve the problems; enlist and coordinate help from public and private sources to accomplish the District goals; and increase awareness of the inter-relationship between human activities and the natural environment.

Materials available
The District has on hand a limited supply of miscellaneous videos and brochures on various topics such as backyard conservation, the Conservation Reserve Program, conservation planning, forestry, nutrient management, wetlands, erosion, etc.

Programs Offered
Delaware Envirothon

Kent County Levy Court Department of Community Services
Division of Parks
Carl J. Solberg, Parks Division Director
555 Bay Road
Dover, Delaware 19901
(302) 744-2490 Fax #: (302) 760-4757

Mission
Plan, promote, and develop recreational facilities and activities, protect, conserve, and enhance natural resources, develop and promote Greenways as recreation and conservation resources, encourage positive environmental stewardship, provide technical assistance for open space planning and management, and provide a wide range of active and passive recreation opportunities on County Park Lands.

Programs Offered
The Parks Division, in cooperation with the St. Jones Research Reserve, can provide tours of the riparian habitat communities of the St. Jones River and its tributaries. Demonstration sites of upland and wetland habitat restoration and construction undertaken by the Division may also be toured elsewhere in the County. The Native Plant Garden of Brecknock County Park offers a superior opportunity to see a backyard conservation landscape design, stormwater infiltration and a rain garden during all seasons of the year.

Non-tidal wetland and upland forest habitat trails are accessible at County Parks at Big Oak County Park, Tidbury Creek Park, Brecknock County Park, and Browns Branch County Park. Each of these trail experiences offers close viewing proximity to sensitive natural areas representative of the Coastal Plain. The habitats and walking trails of the new Hunn Recreation and Conservation Area on the St. Jones River will be open to the public by appointment beginning in the summer of 2007. Ongoing archaeological investigations of the freed slave community of “Hunn Town” may be available by appointment in 2007.

The Division sponsors the St. Jones Greenway Commission, the Annual Earth Day environmental volunteer celebration on the fourth Saturday of April, and other opportunities to visit, recreate, and volunteer within County Park lands.
**Lower Merion Conservancy**

Lindsay Smith, Education Coordinator  
1301 Rose Glen Road  
Gladwyne, PA 19035  
(610) 645-9030  Fax #: (610) 645-9031  
E-mail: programs@dragonfly.org  
Website: www.lmconservancy.org

**Mission**
The Lower Merion Conservancy protects and enhances our quality of life by engaging residents in preserving open space, the natural environment, and the historic character of the community. Through education, advocacy and research, we promote collective responsibility for these shared resources.

**Materials Available**
Mill Creek Report  
Birds of Lower Merion

**Programs Offered**
Field trips and classroom workshops for K-12 (fee)  
Internships and group/individual service learning opportunities  
Children’s Earth Day Forest Event  
Water monitoring (chemical & biological)  
Bird monitoring

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**Manayunk Development Corporation (MDC)**

Kay Sykora, Planning and Projects  
111 Grape Street  
Philadelphia, PA 19127  
(215) 482-9565 x206  Fax #: (215) 487-9137  
E-mail: ksykora@manayunk.org  
Website: www.manayunk.com

**Organization Description**
MDC is a non profit 501(c)3 community development corporation formed to encourage economic development that benefits the entire community.

**Materials Available**
Guides and brochures for the Manayunk Canal, Schuylkill River Trail, Schuylkill River Heritage Corridor, and Pennsylvania Canals (appropriate for middle school or high school students). A Manayunk Canal Towpath Walking Tour booklet for elementary to middle school students is available.

**Programs Offered**
No formal programs are offered, but MDC would be able to schedule times to meet with students and discuss the history of the canal and the plans for renovation.
Marine Mammal Stranding Center
Melanie Reding, Education/Outreach Coordinator
3625 Brigantine Blvd., PO Box 773
Brigantine, NJ 08203
(609) 266-0538 Fax #: (609) 266-6300
E-mail: mmsc@verizon.net
Website: www.mmsc.org

Organization Description
Dedicated to the rescue, rehabilitation, and release of marine mammals and sea turtles.

Programs Offered
On and off-site programs are available. Please call or email for information.

Maritime Exchange for the Delaware River and Bay
Dennis Rochford, President
240 Cherry Street
Philadelphia, PA 19106
(215) 925-2615 Fax #: (215) 925-3422
E-mail: exchange@maritimedelriv.com
Website: http://www.maritimedelriv.com

Mission
To promote commerce on the Delaware River and Bay. Since 1875, the Maritime Exchange has provided the port business community with quality maritime and ship intelligence.

Materials Available
The Maritime Exchange has a collection of resource information that focuses upon the regional port and shipping industries. National and international issues that affect the area are also documented. Individual copies of certain publications are available upon request.

Melrose Park Neighbors Association
Andrew Rudin, President
7217 Oak Avenue
Melrose Park, PA 19027
(215) 635-1122 Fax #: (215) 635-1903
E-mail: andrewrudin@earthlink.net

Mission
To abate the pollution of Mill Run.

Programs Offered
Information is available upon request.
Merrill Creek Reservoir

Jane Bullis, Naturalist
34 Merrill Creek Road
Washington, NJ 07882
(908) 454-3339  Fax #: (908) 454-2747
Website:  MerrillCRP@aol.com

Organization Description
A utility-owned 650 acre reservoir and 290 acre environmental preserve, its basic purpose is to provide stored water that can be released to the Delaware River to make up for the evaporative water usage at certain electric generating units in times of low flow in the river.

Programs Offered
Wide arrays of environmental education programs, which can be tailored to meet your groups needs, are available free of charge for grades K-adult.

Monroe County
Environmental Education Center

Roger Spotts, Environmental Education Coordinator
8050 Running Valley Road
Stroudsburg, PA  18360
(570) 629-3061  Fax #:  (570) 629-3063
E-mail:  monroecd@ptd.net
Website:  www.mcconservation.org

Organization Description
The MCEEC is dedicated to fostering a community environmental awareness by providing quality environmental education programs for people of all ages.

Materials Available
A resource library including activity guides, natural history guides, and other information.

Programs Offered
Field trips to one of three outdoor study sites
Environmental education programs at school sites
Program fees range from $2.50 to $5.00 per student.  A program brochure is available.
Montgomery County Conservation District

Susan Greth, Watershed Specialist
143 Level Road
Collegeville, PA 19460
(610) 489-4506  Fax #: (610) 489-9795
E-mail: sgreth@montgomeryconservation.org

Mission
To protect and improve the quality of life of the residents of Montgomery County and surrounding communities by providing, in cooperation with others, timely and effective service, educational and technical guidance for the wise use of our soil, water and related resources.

Materials Available
MCCD is a source of educational materials focused on the following topics (no charge):
- Soil conservation
- Water conservation
- Water quality and wetlands
- Land use issues
- Native & invasive plants
- Stormwater issues
- NPS Enviroscape

Programs Offered
MCCD is available to speak to schools, community groups, and municipalities about the wise use of our soil, water and related resources (no charge). We also coordinate the Montgomery County Envirothon for elementary, middle and high schools.

Morris Arboretum of the University of Pennsylvania

Liza Hawley, Visitor Education Coordinator
100 Northwestern Avenue
Philadelphia, PA 19118
(215) 247-5777 x128  Fax #: (215) 247-7862
E-mail: efhawley@pobox.upenn.edu
Website: www.morrisarboretum.edu

Organization Description
The Morris Arboretum of the University of Pennsylvania is a historic public garden and educational institution. It promotes an understanding of the important relationship between plants, people and place through programs that integrate science, art and the humanities.

Materials Available
“Understanding Wetlands” through classroom materials and on the web (free)
Teacher training in “Understanding Wetlands” (fee)

Programs Offered
Tour—“Understanding Wetlands” that helps students determine the components of a wetland by observing what lives in our wetland. The tour explains the implications of the loss of wetlands and helps students develop an action plan to address local wetland issues.
National Park Service

U.S. Department of the Interior
Websites:  www.nps.gov/ - information about the National Park Service
          www.nps.gov/nero/ - information about the National Park Service’s Northeast Region

Organization Description:
The National Park Service (NPS) cares for special places saved by the American people so that all may experience our
heritage. NPS helps conserve natural resources, create recreational opportunities and preserve America’s rich heritage.

Materials Available
http://www.cr.nps.gov/history/park_histories/index.htm
  • Allows users to search by national park name or region for park histories
  • By clicking on a link provided, users can access the Maritime Heritage Program, which includes educational tools for
teachers, links to maritime parks, and information about lighthouses and ships.
National Wild & Scenic Rivers program materials available through NPS:
  • “Our National Wild & Scenic Rivers System: Questions & Answers”
  • Partnership Rivers News
  • NPS guide to the Maurice River, a Scenic & Recreational River
Program materials are also available through NPS partners:
  • White Clay Creek Watershed Association at http://mercury.ccil.org/~wcwa/
  • White Clay Creek Watershed Management Committee at http://mercury.ccil.org/~wcc_ws/
      Linda Stapleford, River Administrator (302-731-1756)
  • Citizens United to Protect the Maurice River & its Tributaries at http://www.cumauriceriver.org/
      Jane Morton Galleto, President (856-327-1161)

Programs Offered
  • http://www.nps.gov/ - public link to NPS Interpretation & Education, which includes LearnNPS, a resources for teachers
and students. LearnNPS contains park based curricula, field trip planning, workshops and other resources for teachers.
There are sites for kids that include WebRangers and a park fun guide. There is also a link to specific natural resource
topics through “Nature & Science,” including water resources.
  • National Wild & Scenic Rivers related programs and materials available through NPS partners, as noted above
  • Valley Forge National Historical Park – No organized schedule of programs, but will accommodate school groups and
teachers for natural resource based interpretive programming. Contact Natural Resources Manager at 610-783-1041.
The Nature Conservancy in New Jersey

Brent Burke, Manager of Outreach & Education Programs
2350 Route 47
Delmont, NJ 08314
(609) 861-0600  Fax #: (609) 861-4420
E-mail: brent_burke@tnc.org
Website: www.nature.org

Mission
The Nature Conservancy is an international conservation organization, and our mission is to preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive.

Programs Offered
Depending on the Delaware Bayshores Office schedule, in-class presentations and field trips to nature preserves and managed lands may be available for local schools in Cape May, Cumberland, Salem and Atlantic Counties. Themes include shorebird migration and marshes/wetlands. There is no charge for these presentations.

The Nature Conservancy in Pennsylvania

Su Fanol, Director, Delaware River Program
15 East Ridge Pike, Suite 500
Conshohocken, PA  19428
(610) 369-7867
E-mail: sфанол@tnc.org
Website: http://nature.org

Organization Description
The Nature Conservancy's mission is to preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive. We have developed a strategic, science-based planning process, called Conservation by Design, which helps us identify the highest-priority places—landscapes and seascapes that, if conserved, promise to ensure biodiversity over the long term. In other words, Conservation by Design allows us to achieve meaningful, lasting conservation results.
New Castle County Conservation District

Richard Mickowski, Conservation Planner / Education Coordinator
2430 Old County Road
Newark, DE 19702
(302) 832-3100 x113  Fax #: (302) 834-0783
Rick.mickowski@state.de.us

Organization Description
We provide coordination of leadership and services to help people conserve and improve Delaware’s natural resources and environment.

Materials Available
Various soil, water and natural resource related materials—call for availability
“Water Wise” materials available for 2006

Programs Offered
Nonpoint Source Pollution Watershed Model
Career in Conservation
Delaware Envirothon—a natural resource challenge of grades 9-12

New Jersey Academy for Aquatic Sciences

Sharon Morrell, Academic Programs Manager (856) 361-1025
Estelle Stroup, Outreach Programs Manager (856) 361-1024
1 Riverside Drive
Camden, NJ 08103
Fax #: (856) 365-3318
E-mails: smorrell@njaas.org, estroup@njaas.org
Website: www.njaas.org

Organization Description
Building on a faithful commitment to environmental stewardship and creative methods, The New Jersey Academy for Aquatic Sciences has become a premiere source for quality programming. As a private non-profit group, NJAAS has provided science-based education for children and families throughout the Greater Philadelphia region for over a decade. The New Jersey Academy for Aquatic Sciences promotes the understanding, appreciation and protection of aquatic life and habitats through research, education and youth development programs.

Materials Available:
Teachers booking field trips to Adventure Aquarium can request copies of the “Tide & Seek” scavenger hunt, produced by the Academy.

Programs Offered:
The Academy offers an assortment of exciting professional development and interdisciplinary workshops for teachers! The New Jersey Academy for Aquatic Sciences is a registered professional development provider (#424) with the NJ Department of Education. Please visit our website for more information and upcoming programs.

The Academy also offers on-site classes, off-site outreach lessons, and distance learning programs. Information for all programs, including pricing, can be found at our website at www.njaas.org, or a brochure can be mailed to you. Call Sharon Morrell at 856-361-1025 for on-site and distance learning programs or Estelle Stroup at 856-361-1024 for Outreach traveling programs.
New Jersey Audubon’s Nature Center of Cape May

Gretchen Ferrante, Sanctuary Director
1600 Delaware Avenue
Cape May, NJ  08204
(609) 898-8848  Fax #:  (609) 898-8512
E-mail:  nccm@njaudubon.org
Website:  www.njaudubon.org/centers/nccm

Organization Description
A family-oriented center located on the southern shores of Cape May Harbor. Natural history programs serve the regional communities and seasonal tourists. Environmental educational programs increase awareness and understanding of coastal ecology and how it relates to human behaviors. The center is a complex of several buildings housing exhibits, aquariums, classrooms, offices, a lookout tower, lecture hall, children’s activity corners, a nature store, and public restrooms. Display gardens, natural wildlife habitats and picnic areas comprise the grounds.

Materials Available
All of our resources are available for review and loan to area teachers. The Nature Store has many teacher’s guides and materials for sale with a 20% discount for educators.

Programs Offered
Field trip and outreach programs focusing on NJ coastal habitats including aquatic food chains, habitats, horseshoe crabs and shorebirds, plankton lab, migrating monarchs, and much more. (Fee for programs)

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New Jersey Audubon Society (NJAS)

Dale Rosselet, Vice President for Education
Department of Education at CMBO Center for Research & Education
600 Route 47 North
Cape May Court House, NJ  08210
(609) 861-0700  Fax:  (609) 861-1651
E-mail:  dale.rosselet@njaudubon.org
Website:  www.njaudubon.org

Mission
Preservation of habitat and bio-diversity in New Jersey through conservation, education and research.

Materials Available
Bridges to the Natural World (Grades Pre-K – 6) $30  -  A natural history guide for teachers.
New Jersey WATERS (Grades 7-12) $35  -  A 218 page book of background, lessons, and appendices, which takes a watershed approach to teaching the specific ecology of New Jersey. The program is aligned to the NJ Core Curriculum Content Standards and is adaptable to special needs students.

Programs Offered
Programs including field trips, classroom presentations, assembly programs and teacher workshops are available at each of our centers throughout New Jersey.

NJAS Rancocas Nature Center

Mary Belko. Program Director
NJAS Rancocas Nature Center
794 Rancocas Road
Mount Holly, NJ  08060
(609) 261-2495  Fax:  (609) 261-9916
E-mail:  mary.belko@nyaudubon.org
Website:  www.njaudubon.org/centers/rancocas

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New Jersey Coastal Heritage Trail Route

Carole Brodkin, Park Ranger – Interpretive Specialist
National Park Service
P.O. Box 568
389 Forescue Road
Newport, NJ 08345
(856) 447-0103  Fax #: (856) 447-0108
Email: carole_brodkin@nps.gov

Organization Description
This vehicular trail links destinations along 300 miles of New Jersey coastline under five interpretive themes. It is a partnership among the National Park Service, the State of New Jersey, and many organizations working to preserve the State's natural and cultural heritage.

Materials Available
Brochures: New Jersey Coastal Heritage Trail full-color brochure and brochures for the Sandy Hook, Barnegat Bay, Cape May/Absecon, and Delsea regions.


Video: “Down Jersey” explores the cultural landscape of the Trail in Cape May, Cumberland, and Salem counties. Artisans, fishermen, ship builders, naturalists, and historians show you the South Jersey they have come to know and love.

Teacher's Guides: Down Jersey – Celebrating our Sense of Place Teacher's Curriculum is a teacher’s guide and activity book on New Jersey’s Delaware Bayshore and the film Down Jersey by New Jersey Network (NJN).
Go to www.cumauriceriver.org for more information.
New Jersey Department of Environmental Protection
Division of Watershed Management,
Watershed Education and Outreach Program

Kerry Kirk Pflugh, Manager
Office of Watershed Education, Estuaries and Monitoring
P.O. Box 418
401 East State Street
Trenton, NJ 08625
(609) 292-2113 Fax #: (609) 633-1458
E-mail: watershed@dep.state.nj.us
Website: www.nj.gov/dep/watershedmgt

Organization Description
The NJDEP has many tools to assist with education and outreach programs.

Materials Available
Newsletters, educational brochures, booklets

Programs Offered
Project WET teacher workshops (fee)
Watershed Education Conference
Harbor Watershed/Urban Fishing Program
Clean Water “Raingers” Program
New Jersey Watershed Ambassadors Program
Watershed Watch Volunteer Monitoring Program

New Jersey Department of Environmental Protection
Information Resource Center (IRC)

Mary Kearns-Kaplan, Manager
432 East State Street
P.O. Box 409
Trenton, NJ 08625-0409
(609) 984-2249 Fax #: (609) 292-3298
E-mail: mary.kearns-kaplan@dep.state.nj.us
Web site: http://www.state.nj.us/dep/dsr/irc

Organization Description
The Information Resource Center (IRC) is the research library of the New Jersey Department of Environmental Protection (NJDEP). It is the mission of the IRC to support the work of the NJDEP’s staff and to make our information resources available to the general public.

Materials Available
The general public is welcome to use all services of the IRC that do not incur fees, such as database searches. An appointment is required.
New Jersey Division of Fish, Game and Wildlife

Jim Sciascia, Bureau Chief
Office of Information and Education
P.O. Box 400
Trenton, NJ 08625-0400
(609) 984-6295  Fax #: (609) 984-1414
www.njfishandwildlife.com

Organization Description
The Division of Fish & Wildlife is a professional organization dedicated to the protection, management and wise use of the state’s fish and wildlife. The role of the division is to protect habitat and to manage all of the state’s wildlife for the benefit of the people of New Jersey.

Materials Available
Marine Education Resource Guide (call 609/748-4347 to obtain a copy).
Reptiles & Amphibians of NJ Resource Package for teachers ($28.45)
NJ Wildlife Viewing Guide ($11.95)
Wild Places and Open Spaces Map ($4.00)
Aquatic WILD & Project WILD
WILD School Sites
Peregrine Project Curriculum (Free from website)

Programs Offered
The Pequest Trout Hatchery & Natural Resource Education Center offers all types of programs for school groups and the public. Overnight workshops on marine ecology are offered to educators at the Sedge Island Natural Resource Education Center.

New Jersey Marine Science Consortium
Claire Antonucci, Director of Education
Building #22  Sandy Hook Field Station
Fort Hancock, NJ 07732
(732) 872-1300 x 22  Fax #: (732) 291-4483
E-mail: cantonucci@njmsc.org
Website: www.njmsc.org

Mission
The NJMSC is a private, non-profit organization dedicated to promoting greater understanding of New Jersey’s marine, coastal and estuarine resources. This mission is accomplished through education, outreach, and research.

Materials Available
Marine science lesson plans (available on-line)
Lesson “kits” available for borrowing

Programs Offered
Field Trips   Grades Pre-K – 12   Fee based
Professional Development Workshops   Fee based and grant funded
Family Science Programs   Fee based
Undergraduate and Graduate Courses   Tuition based
Summer Day Camp, Pre-school Programs, In-school and after-school programs, Curriculum Integration Services
Scout Badge Program
Internships for pre-service science educators
Coast Day NJ– public outreach event, 2nd Sunday in October
Coast Day NJ- public outreach event, 2nd Saturday (Long Beach Island) Sunday (Cape May) in October. Free admission
Ocean Fun Days - Annual Open House at Island Beach and Sandy Hook, each May. Free admission
New Jersey Mosquito Control Association

Rutgers University
180 Jones Avenue
New Brunswick, NJ 08901-8536
For the contact in your area see: www.rci.rutgers.edu/insects/njmos.htm

Mission
To promote cooperation among those interested in mosquito control and related work, stimulation of educational activities to increase knowledge of and advance mosquito control and related environmental objectives in New Jersey.

Materials Available
Select county mosquito control agencies can supply literature about watersheds, mosquito habitat management, aquatic biology, mosquito history and outlines for science projects. Counties may loan biological models and rearing container and supply live specimens.

Programs Offered
Select counties will make presentations in the school customized to class age and topic.

New Jersey Nature

Steve Serwatka, Director
2353 Delsea Drive
Delont, NJ 08314
(609) 961-2886 Fax #: (609) 961-1308
E-mail: NewJerseyNature@netzero.net

Programs Offered
Educational programs on insects, birds of prey, endangered & rare species, reptiles, amphibians, etc. using live animals and specimens. Call for details of materials available.

New Jersey Project Learning Tree

Elizabeth Faircloth, Coordinator
Forest Resource Education Center
370 East Veterans Highway
Jackson, NJ 08527
(732) 833-9816 Fax #: (732) 928-8472
E-mail: elizabeth.faircloth@dep.state.nj.us
Website: www.plt.org

Organization Description
Hands-on, interactive, multi-disciplinary activities for students, PreK-12, that use the forest as a “window on the world” to increase decision making skills and critical thinking on behalf of the environment.

Programs Offered
Free or low cost professional development workshops for educators
City of Newark (DE)

Kelley Dinsmore, Stormwater Program Coordinator  
220 Elkton Road  
Newark, DE  19711  
(302) 366-7040  
E-mail:  kdinsmore@newark.de.us  
Website:  http://newark.de.us/does/departments/stormwater_program.html

Description of Organization  
City (municipal) government

Materials Available  
Stormwater coloring books, nonpoint source pollution prevention tip cards and brochures  
Occasionally, stormwater textbook covers

Programs Offered  
Call for current details

Old Pine Farm Natural Lands Trust

Joan Tracy, Chairperson  
340 Pine Avenue  
Deptford, NJ  08096  
(856) 232-1109  
E-Mail:  jtracy@gccnj.edu  
www.bigtimbercreek.org

Organization Description  
32 acres of open space along Big Timber Creek with forest, meadow, wetlands, and many species of wildlife.

Programs Offered  
School visits—no charge, Trail Guides—no charge

PA CleanWays

Karen H. McCalpin, President of External Affairs  
105 W. 4th Street  
Greensburg, PA  15601  
(724) 836-4121  Fax #:  (724) 836-1980  
E-mail:  kmccalpin@pacleanways.org  
Website:  www.pacleanways.org

Materials Available  (see website for details)  
Open Your Eyes to Litter coloring book  (s&h only)  
OYEL Vol. 1  (s&h only)  
OYEL Vol. 2—Our Littered Past  (s&h only)  
OYEL Vol. 3—Think Before You Toss  (s&h only)  
OYEL Vol. 4—In a Watershed  (s&h only)  
Teacher’s Guides for 1,2, & 3  (s&h only)  
PACW Environmental & Ecology Curriculum for Intermediate Students ($25 + s&h)

Programs Offered  
Litter Hawk (A youth award program)  
Sue Wiseman Scholarship Program  
Youth volunteer cleanup opportunities  
Litter IQ Board and Recycling Board—Two different educational boards, shipping cost would be shared, $15 each way
Mission Statement

The mission of the Partnership for the Delaware Estuary, one of 28 National Estuary Programs, is to lead collaborative and creative efforts to protect and enhance the Delaware Estuary, and its tributaries, for current and future generations.

Organization Description

The Partnership for the Delaware Estuary Inc., is a nonprofit organization established in 1996 to take a leadership role in promoting wise conservation and management of the Delaware Estuary by increasing the awareness and understanding of this magnificent resource. Through education, action projects, and consensus building, the Partnership works with all levels of government, business, environmental organizations, community groups, academia, and citizens to enhance and preserve the Estuary’s living resources.

Materials Available (all materials are available at no cost)

Our materials list is extensive - Please visit our website to see a current listing of what we have to offer.

Programs Offered (See website for details, or call)

Annual Southeast Pennsylvania Coast Day (September)
Dozens of fun, interactive display booths, treasure hunt, prizes, entertainment, and the annual Philly Fun Fishing Contest. Dive in and bathe your brain with watershed knowledge! Great family day, suitable for ALL ages.

Annual Storm Drain Marking Program (Philadelphia)
Yo! No Dumping—Drains to the River! Hundreds of volunteers hit the Philly streets each spring to glue medallions with this message on thousands of stormdrains. Volunteers also distribute educational flyers that explain the program to residents.

Delaware Estuary Watershed Workshops for Teachers
Through a mixture of laboratory and field experiences teachers will be provided with the opportunity to explore the differences between urban and rural watersheds, and compare the upper portions of the Delaware Estuary with the mouth of the bay. Teachers will gain hands-on experience performing water chemistry tests, identifying macroinvertebrates, sampling fish populations, studying wetland functions and taking part in various other environmental activities. (See back of this guide for more information.)

A Sense of Place: Restoring Native Plant Communities
A school yard habitat initiative that addresses the loss of biological diversity through the restoration of locally native vegetation at school sites within the Delaware Estuary region. The project provides a model for watershed approach to land management by controlling invasive plants, reducing pesticide use, and improving wildlife habitat thereby reducing negative impacts to our waterways.

Annual Drawing Contests (Jan-Mar) in Philadelphia and Delaware; fun, recognition at ceremonies, and PRIZES (for teachers too!) Every participant gets a calendar featuring winning entries. See website for current details.

Classroom presentations, (within the Estuary region) featuring nonpoint source pollution discussion with PowerPoint presentation and Enviroscope coastal model. ($50.00)

Other programs may be available—check website for current listings!
Parvin State Park Appreciation Committee, Inc.

Linda A. DuBois, Program Sub Committee Chair
846 Almond Road, Building A
Pittsgrove, NJ 08318-3927
(856) 358-5370 Fax #: (856) 358-7670
E-mail: ParvinVolunteers@aol.com
Website: www.FriendsofParvin.org

Mission
The Parvin State Park Appreciation Committee was organized to promote the use of the park by the public and to educate visitors on its rich history and to support the park through available funding.

Programs Offered
Volunteer service, history lectures, hay rides and tram tours. Ride costs are $3/person + $30 insurance.

Peace Valley Nature Center

Gail Hill, Environmental Education Director
170 Chapman Road
Doylestown, PA 18901
(215) 345-7860 Fax #: (215) 345-4529
E-mail: ghill@co.bucks.pa.us
Website: www.peacevalleynaturecenter.org

Organization Description
750 acres of diverse habitat utilized as an outdoor “classroom”. Field studies support various program subjects that are available year round (upon request) for school groups, civic groups, and the community.

Mission Statement
To provide, manage and maintain an outdoor living museum and environmental education facility for Bucks County which will: 1) Serve as a refuge and diverse habitat for wildlife—both plants and animals. 2) Set aside a place where county citizens and other visitors can enjoy the peace and beauty of a natural area. 3) Encourage and promote environmental awareness through a variety of educational experiences.

Programs Available
Wetlands; Adaptations of Freshwater Macroinvertebrates Middle-High School $4/student ($40 min.)
Stream Study; Wetlands & Watersheds K-6 $4.50/student ($45 min.)

Materials Available
Reference library with extensive collection of natural history and education materials.

Pennsylvania Association for Environmental Educators

Angela Belli, Environmental Education Center Director
C/o Schuylkill Conservation District
1206 AG Center Drive
Pottsville, PA 17901
E-mail: angela.belli@email.stvincent.edu
Website: www.paee.net

Saint Vincent College Environmental Education Center
300 Fraser Purchase Road
Latrobe, PA 15650

Materials Available
Goodbye Orange Water Activity Booklet: Mine drainage and wetland education activities
Nature Interrupted: The Story of Abandoned Mine Drainage-watershed and mine drainage curriculum.
Pennsylvania Bureau of State Parks - Delaware Canal State Park

Bonnie Tobin, Environmental Education Specialist Supervisor
11 Lodi Hill Road
Upper Black Eddy, PA 18972
(610) 982-5560 Fax #: (610) 982-0160
E-mail: nrsptobin@state.pa.us

Mission
At Delaware Canal State Park, our educational mission is to foster an awareness of the ecology and heritage of the lower Delaware River region and an understanding of the interrelationship between humans and river systems. The PA Bureau of State Parks provide opportunities for enjoying healthful outdoor recreation and serve as outdoor classrooms for environmental education. In meeting these purposes, the conservation of the natural, scenic, aesthetic, and historical values of the parks are given first consideration. Stewardship responsibilities are carried out in a way that protects the natural outdoor experience for the enjoyment of current and future generations.

Teacher Training Opportunities
PA State Parks Watershed Education
Project Learning Tree
Project WILD & Aquatic WILD
PA Songbird Curriculum
& Other specialized programs (fee for materials and administration)

Programs Offered
On site student learning experiences such as, water quality monitoring, river cleanups, historic/interpretive mule drawn barge, river island ecology and individual service learning projects are available upon request.

Pennsylvania Bureau of State Parks –
Nolde Forest Environmental Education Center

Tamara Peffer, Watershed Education Coordinator
2910 New Holland Road
Reading, PA 19607
(610) 796-3688 Fax #: (610) 796-3698
Website: Noldeforest.sp@state.pa.us

Organization Description
Nolde Forest Environmental Education Center is operated by the Pennsylvania Department of Conservation and Natural Resources, Bureau of State Parks and dedicated to educating children, teachers and community about the environment; assisting them to develop their knowledge and skills to take positive environmental action and be good stewards of our environment.

Materials Available
Watershed Education Activities for Environmental Learning.

Programs Offered
Watershed education—no charge
Field learning experiences—$15 per instructor
Public programming—no charge
Teacher workshops—no charge or fee dependent on accrediting body
Junior Environmental Forum, and Environmental Forum
School outdoor classrooms
Urban programs
- Call for information
Pennsylvania Department of Environmental Protection (PA DEP)

Lynda Rebarchak, Community Relations Coordinator
2 East Main Street
Norristown, PA 19401
(484) 250-5820  Fax #: (484) 250-5943
E-mail: LRebarchak@dep.state.pa.us
Website: www.depweb.state.pa.us

Mission
To protect Pennsylvania’s air, land and water from pollution, and to provide for the health and safety of its citizens through a cleaner environment.

Materials Available
PA DEP maintains an extensive website on the Internet with information specifically geared toward teachers and students, Keyword: Environmental Education.

Programs Offered
Regional Speaker’s Bureau is a group of assorted technical staff to handle presentation requests from schools and community groups on a variety of environmental subjects at no charge. (3-4 week advance notice requested).

Pennsylvania Department of Environmental Protection
Bureau of Watershed Management
Nonpoint Source Management Program

Fran Koch, Environmental Planning Supervisor
400 Market Street
P.O. Box 8555
Harrisburg, PA 17105-8555
(717) 783-2289 Fax #: (717) 787-9549
E-mail: fkoch@state.pa.us
Website: www.dep.state.pa.us (Keyword: NONPOINT SOURCE MANAGEMENT)

Mission
To protect Pennsylvania’s air, land and water from pollution and to provide for the health and safety of its citizens through a cleaner environment. We will work as partners with individuals, organizations, governments and businesses to prevent pollution and restore our natural resources.

Materials Available
See website: www.dep.state.pa.us, look down left margin and click on Forms and Publications
Pennsylvania Department of Environmental Protection
Coastal Zone Management Program

Andrew Zemba, Assistant Director and Coastal Resources Program Manager
Water Planning Office, Pennsylvania Department of Environmental Protection
400 Market Street, 2nd Floor
Harrisburg, PA 17105-2063
(717) 772-4785, Fax #: (717) 783-4690
E-mail: azemba@state.pa.us
Website: www.dep.state.pa.us/subjects/ choose: Water Planning Office

Mission
The Water Planning Office coordinates Pennsylvania's responsibilities as a member of interstate river basin organizations and develop strategies to utilize established river basin commissions and interstate associations as vehicles to advance partnerships. In the Delaware Estuary and Lake Erie watersheds, the Office coordinates and implements the Department's Coastal Resources Management Program (CRM), which is a federally funded and approved management program for Pennsylvania's two coastal areas.

Materials Available
Fact Sheet: The Pennsylvania Coastal Zone Management Program
Pennsylvania Department of Environmental Protection
Environmental Education and Information Center

Jack Farster, Director of Environmental Education
P.O. Box 2063
Harrisburg, PA 17105-2063
(717) 772-1828  Fax #: (717) 705-4093
E-mail: jfarster@state.pa.us

Mission
To protect Pennsylvania’s air, land and water from pollution and to provide for the health and safety of its citizens through a cleaner environment, working as partners with individuals, organizations, governments and businesses to prevent pollution and restore our natural resources.

Materials Available
Use Water Wisely Brochure
Fact Sheet: Water Pollution Control in PA
Fact Sheet: Watershed Management and TMDLs
Pennsylvania Stream Releaf: Plan for restoring & conserving buffers along Pennsylvania streams
Forest Buffer Toolkit: Replanting Pennsylvania’s Streamsides
Local Solutions to Pennsylvania’s Pollution: PA’s Nonpoint Source Management Program
DEP Environmental Education Grants Program Manual and Forms
Do Your Share: Learn About the Land (land use activity poster)
Learning About Land, A Guide for Educators (packet)
Air Quality for Teacher, Do Your Share! (packet)
Is your drinking water safe?
Clean Watersheds, Clean Water (activity poster)
Water education activities (K-9)
Sustainability Education (packet)

Materials Available in Limited Supply
STREAMS (Science Teams in Rural Environments for Aquatic Management Studies) - An interdisciplinary environmental education and water study program incorporating national science and math standards, authentic assessment, field studies, technology and student/community activism
A-maze-ing Water
Project WET Curriculum and Activity Guide
Environmental Heroes Trading Cards & activity sheet

Programs Offered
Speakers are available as scheduling allows.
Pennsylvania Fish and Boat Commission

Kristen Beckert, Environmental Education Specialist
101 Swamp Rd
Newtown, PA 18940
(215) 968-3631
E-mail: kbeckert@state.pa.us
Website: www.fish.state.pa.us

Organization Description:
The PA Fish and Boat Commission is to provide fishing and boating opportunities through the protection and management of aquatic resources. Educational programs provide boating training and certification, fishing instruction, teacher workshops, and offer various free materials for instructors and the public. By promoting preservation and safety, the PFBC educates groups and individuals in recreation and resource protection, reaching out to conservation programs, schools, parks, and other groups that encourage an informed and involved public.

Materials Available
Project WILD Aquatic and PA Amphibians & Reptiles courses are offered free of charge to educators. Act 48 credit is available. Information about courses and free materials can be accessed and ordered via the www.fish.state.pa.us website, under the education link. These items include various handouts, maps, booklets, and videos that are available to interested individuals at no cost. Please order 4 weeks in advance.

Programs Offered
Boating and Water Safety Awareness (BWSA), Basic Boating, and Fishing Skills are available to schools and other interested groups. The commission emphasises providing instructor training to qualified individuals as a method of providing these courses. Act 48 credit is available. Information about these programs can be found on the PFBC web site listed above.

Pennsylvania Resources Council

Sue Cochrane, Manager of Environmental Education
3606 Providence Road
Newtown Square, PA 19073
(610) 353-1555 Fax #: (610) 353-6257
E-mail: Cochrane@prc.org
Website: www.prc.org

Description of Organization
PRC is Pennsylvania’s oldest environmental education organization. We have been providing environmental education since 1939 through offices in suburban Philadelphia and Pittsburgh.

Programs Offered
Act 48 programs on a variety of environment and ecology topics. Call for schedule. (small charge)
Watershed Awareness, Forest and Stream Ecology, Songbirds, Energy Conservation, Greener Lifestyles, Viewfinders Too, Litter & Recycling, Organic Gardening and Composting. (Call for fees)
Pennsylvania Wildlife Federation

2426 N. Second Street
Harrisburg, PA 17110
Website: www.pawildlife.org

Mission
To educate Pennsylvanians about our environment and inspire them to protect, conserve and nurture our natural resources.

Materials Available
Please visit website for current materials

Programs Offered
Please visit website for current programs

Pennypack Ecological Restoration Trust

David J. Robertson, Executive Director
2955 Edgehill Road
Huntingdon Valley, PA 19006
(215) 657-0830 Fax #: (215) 657-1679
E-mail: contact@pennypacktrust.org
Website: www.pennypacktrust.org

Organization Description
The Trust’s mission is to protect, restore and preserve the lands of the central Pennypack Creek valley so that they: enhance the quality of life of both residents and visitors, offer habitat for native plants and animals, and become a standard of excellence for innovative restoration and stewardship practices that can be shared with others joined in a common commitment to the environment.

Materials Available
Trail maps and a library of field guides, natural history books and periodicals are available for use.

Programs Offered
School groups can come to the Trust for self-guided walks on our trails. We do not have any guided programs. We can work with schools for service learning projects on our preserve as well.
Pennypack Farm Education Center for Sustainable Food Systems

Susan Curry, Education & Development Director
685 Mann Road
Horsham, PA 19044
(215) 591-1551  Fax#: same (call first)
E-mail: suscurry@comcast.net
Website: www.pennypackfarm.org

Organization Description
Through educational programs and a community supported agriculture demonstration farm (CSA), we increase understanding of the health, economic, ecological and social issues involved in creating sustainable local food systems.

Materials Available
Act 48 Workshop on “Food, Land, and People” - binder comes with $35 workshop fee

Programs Offered
Classroom presentations of vegetable variety and nutrition; on IPM—no charge currently
Field trips to Farm include tour of organic farming practices to manage weeds and pests without chemicals. Kids harvest and eat 3 vegetables, and work in the children’s garden when time permits. No charge currently.

The Peopling of Philadelphia Collaborative, Inc. (POPCI)

Marlene M. Robinson, Director
1416 Second Street
Delanco, NJ 08075
(856) 824-9399  Fax #: (856) 824-1489

Mission
To bring high quality, relevant, age-appropriate, activity-based educational programs to students in the three-state area; to counteract the violence around us by promoting understanding among youths by helping them appreciate the contributions of all ethnic and racial groups that came here to live and work, and by encouraging pride in one’s own heritage and respect for that of others; to work with teachers to connect POPCI social history and environmental programs to classroom needs that meet local and state academic standards.

(Continued)
Materials Available
A teacher notebook of pre-, post- and site lesson, background information, timeline, map activities and NJ & PA standards met by each are available upon request. Also, a journal is offered free to participating students.

Programs Offered
The Peopling of Philadelphia Program (POP) traces the development of the city and the arrival and contributions of the diversity of people who settled here. Using the collections of 14 social history and ethnic museums, POP hands-on activities involve students in problem solving, critical thinking, and communication skills. POP reaches the 2nd through 12th grades.

The Urban Ecology Program focuses on the environmental consequences of population growth and technological advancement from the 1600’s to the present. More than 12 museums and scientific organizations provide resources that document water usage of the Schuylkill and Delaware Rivers to the 4th through 12th grades. In each program, students carry a journal on their museum visits. The Peopling journal is a passport to the cultural diversity of the city, while the Water Log allows students to record scientific tests and personal reactions. The charge is $100/class for each museum lesson. All students participate in producing their own newspaper at the Philadelphia Inquirer.

Perkiomen Watershed Conservancy

Crystal Gilchrist, Executive Director
1 Skippack Pike
Schwenksville, PA 19473
(610)-287-9383, Fax #: 610.287.9237
E-mail: cgilchrist@perkiomenwatershed.org
Website: www.perkiomenwatershed.org

Description of Organization
The PWC's mission is to conserve and protect the land and water resources of the Perkiomen watershed through a commitment to and leadership in environmental education, watershed stewardship and conservation programs. Our educational focus is on children from 2 1/2 yrs through middle school with age appropriate, hands-on programming that encourages real scientific learning and develops a respect for the natural world. In addition, the PWC works with high school and adult learning organizations to increase awareness about stormwater management and riparian buffers conservation.

Materials Available
"Managing Our Water Resources, Stormwater Best Management Practices" , a DVD outlining 8 different BMP's that can be used in new or retrofitted developments. The DVD is provided for a small shipping & handling charge only.

Programs Offered
Please visit our website for extensive list. All programming is fee for service. Visit www.perkiomenwatershed.org for all the details.
Philadelphia Recycling Center

1401 JFK Boulevard
Room 780 MSB
Philadelphia, PA 19102-1664
(215) 686-5504  Fax #: (215) 686-5455
Website: www.phila.gov/streets

Organization Description
Oversees City of Philadelphia’s recycling activities and planning.

Materials Available
Call for information. School visits available.

Philadelphia Water Department

C. Drew Brown, Manager, Public Education Programs
1101 Market St., Third Floor
Philadelphia, PA 19107
(215) 685-6098  Fax #: (215) 685-6031
E-mail: drew.brown@phila.gov

Mission
The Philadelphia Water Department is a regional, municipally-owned and operated, drinking-water, sewage-treatment, and stormwater-management utility. The Department’s varied educational programs are designed to raise awareness in adults and children about water environment issues and to promote stewardship of the region’s vital water resources.

Materials Available
“Let’s Learn About Water” activity book
“Philadelphia Schools & Their Watersheds” wall map
“Water Quality Data for Philadelphia”
“What's With Water?” curriculum supplement with lessons and activities for 4th, 5th, and 6th grades
“Stormy Weather” video
“All Washed Up” video or DVD
Educational brochures on watersheds, drinking water treatment and distribution, sewage collection and treatment, and stormwater runoff pollution prevention.

Programs Offered
Tours and lessons at the Fairmount Water Works Interpretive Center (see next listing)
Tours and lessons at a drinking water treatment plant and at a sewage treatment plant
Watershed walking tours
In-class speakers
Philadelphia Water Department
Fairmount Water Works Interpretive Center

Ed Grusheski, General Manager, Public Affairs Division
Philadelphia Water Department
1101 Market Street, 5th Floor
Philadelphia, PA 19107-2994
(215) 685-6110 Fax #: (215) 685-4915
E-mail: ed.grusheski@phila.gov
Website: www.fairmountwaterworks.org
For reservations, please call Gwendolyn Myers, (215) 685-0723

Mission
The Philadelphia Water Department (PWD) supplies drinking water, sewage treatment, and stormwater management services to the City and several suburban communities. PWD actively promotes good stewardship of the Delaware River Watershed through its day to day water and sewer operations, through its Office of Watersheds, and through its public education programs. The Fairmount Water Works Interpretive Center (FWWIC), an educational initiative of PWD installed in one of Philadelphia’s most historic sites, provides educational programs for groups and individuals of all ages. Located on the east bank of the Schuylkill River near Center City Philadelphia, the FWWIC tells the story of the region’s water resources and people’s connection to them throughout history. The FWWIC aims to protect our vital water resources by inspiring all citizens to understand, care for, and make wise decisions about land and water use far into the future.

Materials Available
“Let’s Learn About Water” activity book
“Philadelphia Schools and Their Watersheds” wall map
“What’s With Water?” curriculum supplement with lessons and activities for 4th, 5th, and 6th grades
“Water Quality Data for Philadelphia”
“Stormy Weather” video
“All Washed Up” video or DVD

Programs Offered
Lessons offered to groups at the FWWIC include “Water in Our World”, “The Scoop on Poop”, “Choose It, Use It...Abuse It?...Lose It!”, and “Ready? Set. Navigate!” Special evening programs for adults and weekend/school break programs for families are offered as advertised. Visit the website for the latest offerings. Donations to the Interpretive Center are appreciated. Consider combining your group’s visit to the FWWIC with a lesson at one of PWD’s drinking water or wastewater treatment plants.

Philadelphia Wooden Boat Factory

Geoff McKonly, Executive Director
2126 W. Moyamensing Avenue
Philadelphia, PA 19145
(215) 755-2400 Fax #: (215) 755-2600
E-mail: info@woodenboatfactory.org
Website: www.woodenboatfactory.org

Organization Description
Maritime education organization providing project based learning programs based upon boat building.

Programs Offered
Please call for Marine Education Initiative pricing
Mission
The Philadelphia Zoo, America’s first zoo, is dedicated to its mission of conservation, science, education and recreation. The core purpose is to advance discovery, understanding, and stewardship of the natural world through compelling exhibition and interpretation of living animals and plants.

Materials Available
Pre and post visit materials are available with all programs. Loan Kits containing pre- and post-visit activity handbooks, taped animal sounds, videos, scales, and other materials are free of charge with every primate program booked in the Independence Schoolhouse.

Programs Offered
Zoo on Wheels
Little Zoo on Wheels
Teacher Workshops and Summer Institute
Classroom Programs and Independence Schoolhouse Primate Classes (including loan kits)
Distance Learning Programs
Youth Programs and Internships
After-School Programs

Classroom programs (including teacher materials):
Five Alive (Grades PK-2) - Discover how animals use their senses to survive.
Wild Colors (Grades PK-2) Learn how an animal's color can help it to survive.
What Am I? (Grades K-2) - Uncover the mysteries of animal classifications.
Habits and Habitats (Grades 2-6) - Discover adaptations that help animals survive in their habitats.
Links of Life (Grades 3-8) - Explore how animals are linked together as part of a larger ecosystem.
Reptiles Rock (Grades 3-12) - Come face to face with snakes, lizards, turtles and crocodilians.
Creepy, Buggy, Scaly, Slimy (Grades 3-12) - Discover the importance of animals that people often fear.
Going, Going, Gone (Grades 6 -12) - Examine why wildlife is disappearing from the face of the earth.
Genetic Jumble (Grades 9-12) - Learn how the Zoo uses genetics as part of its conservation efforts.
Primates at Home (Grades K-6) - Discover the habitats of primates and how they are built to survive.
Primate Watch (Grades K-12) - Learn what it take to be a field researcher and how primates are studied.

Zoo on Wheels Programs:
Built to Survive (Grades 1-5) - Examine the unique features of live animals and see how they have adapted to survive in their own habitat. Outrageous Reptiles (Grades 1-12) - Students will come face to face with snakes, turtles, and lizards, and learn about their reptilian lifestyles. Who's Who at the Zoo? (Grades 1-5) - Using artifacts and live animals, discover which features are clues to an animal’s classification. Born in the USA (Grades 1-12) - Discover fascinating creatures found in the United States and how we can protect them. Winter Wonderland (Grades 1-8, November - January). You will discover how animals spend the winter season in the wild. Remarkable Rainforests (Grades 3-8) - Discover some creatures from the world's rainforests and learn about threats to their habitat. Myths and Misunderstandings (Grades 3-8) - Discover what real animal behaviors lead to commons myths and misunderstandings. Keeper Caper (Grades 5-8) - Explore a day in the life of a zoo keeper and learn what it takes to care for the Zoo's 1500 animals.

Little Zoo on Wheels (PK-K):
Around the World - Learn about animals from different continents. Ears, Eyes, Nose and Toes - Learn how animals use their senses to survive. Fur, Feathers, Scales and Skin - Discover which animals have soft fur, fluffy feathers and dry scales. Over the Rainbow - Discover how an animal's color can help it survive. Rainforest Safari - Discover some rainforest creatures and where they live. Zooper Heroes - Learn about the special skills that animals use to survive. Wild and Wonderful Winter (November - January) - Meet animals that migrate and hibernate. Backyard Bandits - Discover animals that live in our backyard and how to coexist with them. Desert Dwellers (June - September) Explore the animals that like the heat and how they survive.
Pinelands Preservation Alliance

Mike Hunninghake, Director of Education of Communication
17 Pemberton
Southampton, NJ 08088
(609) 859-8860  Fax #: (609) 859-8804
E-mail: mikeh@pinelandsalliance.org
Website: www.pinelandsalliance.org

Description of Organization
Pinelands Preservation Alliance is the only private, nonprofit organization solely dedicated to preserving and protecting the one million acres of the New Jersey Pinelands.

Materials Available
The Pine Barrens: Up Close and Natural Curriculum
The Pine Barrens: Upclose and Natural Film
The Pine Barrens: Upclose and Natural Teacher’s Guide

Programs Offered
Pinelands Summer Teacher Institute (program stipend for teachers)
Barrens to Beaches field programs (fees vary)

Piney Run Park & Nature Center

Kelly Vogelpohl or Erica Starr
30 Martz Road
Sykesville, MD 21784
(410) 795-6043  Fax #: (410) 795-6237
E-Mail: pineyrun@carr.org

Organization Description
An interpretive facility located in Carroll City, MD featuring environmental & conservation education as well as natural history programming. The 800 acre park features a 300 acre lake with many recreational opportunities.

Materials Available
Pamphlets and newsletters, etc.

Programs Offered
We offer a variety of educational, environmentally focused programs ranging from hikes to boat rides. Please call the Nature Center to obtain a program guide.
Prime Hook National Wildlife Refuge

William J. Jones, Outdoor Recreation Planner Visitor Services Manager
11978 Turckle Pond Road
Milton, DE 19968
(302) 684-8419  Fax #: (302) 684-8504
E-mail: Bill_J_Jones@fws.gov

Mission Statement
Established in 1963 under the Migratory Bird Conservation Act “...for use as an inviolate sanctuary, or for any other management purpose, for migratory birds.” This 10,000 acre refuge is a mosaic of fresh and saltwater wetlands, forests, fields, and Delaware Bay shoreline that provide habitat for tens of thousands of waterfowl and shorebirds, the endangered Delmarva Peninsula fox squirrel, bald eagles, and countless mammals, reptiles, amphibians, fish, insects, and other birds.

Programs Offered
Field trips interpreting the natural resources of the Refuge are available upon demand; however self-guided trips are encouraged. Please call for reservations. No charge.

Pyramid Mountain Natural Historic Area

Douglas Vorolieff, Sr. Teacher Naturalist
472 A Boonton Avenue
Boonton, NJ 07005
(973) 334-3130  Fax #: (973) 541-1971
E-mail: Dvorolieff@morrisparks.net
Website: www.morrisparks.net

Organization Description
Operated by the Morris County Park Commission, Pyramid Mountain is an environmental education facility with over 1,500 acres of protected land to use as an outdoor classroom.

Materials Available
Teacher training programs are held at the facility and literature is available to aid programming at school.

Programs Offered
A school brochure is available listing the offered lessons. Lessons are offered from September through June. Call the facility for availability and current fees.
Radnor Middle School—The Watershed Program

Banny Ackerman & Jon Savitch
131 South Wayne Ave.
Wayne, PA 19087
(610) 386-6300 x6800  Fax #: (610) 688-2491
E-mails: banny.ackerman@rtsd.org, jon.savitch@rtsd.org

Organization Description
An Integrated Learning Program for 7th graders that spends the entire year focused on a Pennsylvania watershed. Now in its 20th year, the program was started by Mark Springer and Ed Silcox

Materials Available
Watershed – A Successful Usage into Integrative Learning (by Mark Springer)  $20
The Watershed Wheel Learning Activities Book  $20
Both are available through the National Middle School Association, call (800) 528-NMSA

Rancocas Creek Association

Craig Katz, President
P.O. Box 345
Mt. Holly, NJ 08060
(609) 532-1222   Fax #: (856) 256-5238
E-mail: katzisa@juno.com

Organization Description
Comprised of property owners on the north branch of the Rancocas and dedicated to keeping the waterway clear and free for recreation and quality of life.

Programs Offered
Others who wish to gain access on our property to study the waterway are welcome.
Raymond Proffitt Foundation

Joe Turner, Secretary/Treasurer
P.O. Box 723
Langhorne, PA 19047-0723
(215) 945-1329
E-mail: dontmatter@juno.com
Website: www.rayproffitt.org

Organization Description
RPF files public interest lawsuits against government and others, for failure to enforce environmental protection laws, including water quality, wetlands, valley fills, etc.

Materials Available
Pollution updates are available on the web site.

Red Clay Valley Association (RCVA)

Giselle Cosentino, Education Director
1760 Unionville-Wawaset Road
West Chester, PA  19382
610-793-1090   Fax #: (610) 793-2813
E-mail: gisellec@bva-rcva.org
Website:  www.redclayvalley.org

Organization Description
The Red Clay Valley Association is the second oldest small watershed organization in the country. Its mission is to promote, through education and scientific activities, the restoration and conservation of the natural resources of the Red Clay Watershed.

Materials Available
In-service learning opportunities are available throughout the year for teachers. Stipend and credit courses are offered to college students in the science or education fields. All training focuses on how to teach environmental education in an outdoor, hands-on, experiential manner using the Pennsylvania Academic Standards in Environment and Ecology. Free teacher kits and resources are available to participants in certain workshops. Contact Connie Shapiro, Director of Teacher Training, at connies@bva-rcva.org for more information.

Programs Offered
More than fifty on-site and outreach programs are offered for ages 4-18. Prices per student range from $5 to $10. All programs are correlated to the Pennsylvania Academic Standards in Environment and Ecology as well as Science and Technology. Programs include habitat exploration, watershed and wetland programs and Brandywine Creek water quality studies and canoe trips. On-site programs take place at the Myrick Conservation Center, a 318-acre property located six miles west of West Chester and three miles east of Unionville, PA. Programs are also offered at our Saalbach Farm facility, just miles from downtown Coatesville, PA. The Association also offers Summer Camp and Homeschool Science programs. Visit our website for program and pricing details.

Additional Education Opportunities: The Association hosts a Local Issues Series for municipal leaders and also offers professional seminars and adult workshops related to protecting our water resources.
Riverbend Environmental Education Center

Stacy Carr, Director of Education
1950 Spring Mill Road
Gladwyne, PA 19035
(610) 527-5234   Fax #: (610) 527-1161
E-mail: scarr@riverbendeec.org
Website: www. riverbendeec.org

Mission
To stimulate awareness, appreciation and understanding of our total environment, and to preserve a natural wildlife habitat.

Programs Offered

Pond and Stream  $ 5-8 /student   Grades Pre-K - 3
Students will explore two aquatic habitats and learn the difference between them. Lesson includes a visit and exploration of a pond and a first order stream. Focus will be placed on the different organisms that live in around both habitats and the adaptations that allow them to live in these sites.

Watersheds  $ 5-8 /student   Grades 3-12
Riverbend’s stream, Saw Mill Run, is a primary order stream with a diversity of aquatic organisms. Students will use dichotomous keys and field guides to identify organisms, then perform physical and chemical tests to determine the health of the stream. Students will also learn about things that impact the health of the stream through the use of watershed models to study point and non-point source pollutants.

In addition to the typical Riverbend programs, Riverbend staff would be more than happy to tailor a program to the needs of your students and curriculum.
Saddler’s Woods Conservation Association (SWCA)

Janet Goehner-Jacobs, Director of Communications
P.O. Box 189
Oaklyn, NJ 08107
(856) 869-7372
E-mail: janet@saddlerswoods.org

Description of Organization
Saddler’s Woods is a 25 acre urban forest, in the Newton Creek watershed, Camden County, NJ. The site includes the head spring of the main branch of the Newton Creek, and is unique for its stand of old growth trees, showing visitors what the area looked like before European settlers arrived. The woods are named in honor of Joshua Saddler, a runaway slave who wanted to preserve the wooded area. Saddler’s Woods Conservation Association is a volunteer, non-profit organization established to restore native habitat and to build public awareness of the natural and cultural resources of Saddler’s Woods to ensure it remains a natural legacy for future generations.

Materials Available
Free stream exploration lesson guide.
Free self-guided tree tour literature, and trail maps.
Available to download on the visit page of www.saddlerswoods.org

Programs Offered
Stream studies available by appointment with donation at the rate of $3 per participant per hour.
Woods tours available by appointment with donation at the rate of $1 per participant per hour.
Free volunteer forest restoration activities by appointment.
(e.g. invasive species removal, stream restoration etc.)

Schuylkill Action Network (SAN)

Paula Conolly, Sourcewater Protection Specialist
1101 Market Street, 4th Floor
Philadelphia, PA  19107
(215) 208-3589   Fax #: (215) 685-6043
E-mail: paula.conolly@phila.gov
Website:  www.schuylkillactionnetwork.org

Organization Description
SAN is a collaboration of organizations and talents working to implement projects that reduce pollution in the Schuylkill River.

Materials Available
“Let’s Learn About the Schuylkill River Watersheds” - colorful layout of the Schuylkill watershed and its subsheds, a drinking water source of over 1.5 million people.

Programs Offered
SAN Educational Sector Source Water Protection Award to recognize schools, colleges and universities working to protect drinking water sources through educational programs and land management practices. Nomination forms are available on the website, or by calling Andrea Bennett, 215-814-5736.
The Schuylkill Center for Environmental Education

Jennifer Hoffman, Director of Education
Virginia Ranly, Watershed Programs Coordinator
8480 Hagy’s Mill Road
Philadelphia, PA 19128-1998
(215) 482-7300  Fax #: (215) 482-8158
E-mail: scee@schuylkillcenter.org
Web site: www.schuylkillcenter.org

Mission
To promote, through environmental education, the preservation and improvement of our natural environment by fostering appreciation, understanding and responsible use of the ecosystem; by disseminating information on current environmental issues; by encouraging appropriate public response to environmental problems; and also to maintain the facilities of The Schuylkill Center and conserve its land for the purpose of environmental education.

Educator Resources
The Schuylkill Center offers a variety of teacher workshops (including Wonders of Wetlands, Project Learning Tree, and others) through which teachers can earn Act 48 credit hours. There is a minimal charge for these workshops, and some financial assistance is available. Visit The Schuylkill Center website and calendar for details and a current schedule of programs.

Programs Offered

<table>
<thead>
<tr>
<th>Program</th>
<th>Grades</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Look at a Pond</td>
<td>pre-K—1</td>
<td>$5/student</td>
</tr>
<tr>
<td>(Offered Sep-Nov, Apr-June; Half day program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pond Community</td>
<td>2—3</td>
<td>$5/student</td>
</tr>
<tr>
<td>(Offered Sep-Nov, Apr-June; Half day program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetlands</td>
<td>4—12</td>
<td>$5/student</td>
</tr>
<tr>
<td>(Offered Sep-Nov, Apr-June; Half day program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Survey</td>
<td>4—12</td>
<td>$10/student</td>
</tr>
<tr>
<td>(Offered year-round; Half day program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Ecology and Water Quality</td>
<td>4—12</td>
<td>$10/class + travel fee</td>
</tr>
<tr>
<td>(Offered year-round; full-day program)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>What’s with Water</td>
<td>3—12</td>
<td>$100/class/$10 travel fee</td>
</tr>
<tr>
<td>This program is a comprehensive introduction to water as a natural resource and a thorough exploration of the water cycle.</td>
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</tr>
<tr>
<td>Watershed Mapping Walk</td>
<td>3—12</td>
<td>$100/class + travel fee</td>
</tr>
<tr>
<td>Find your watershed address and where your drinking water comes from. Analyze the factors affecting it, and then explore your school’s neighborhood to determine its impact on your water supply. Brainstorm ways to improve water quality through changing behavior.</td>
<td></td>
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</tr>
<tr>
<td>Watersheds &amp; Water Pollution</td>
<td>3—12</td>
<td>$100/class + travel fee</td>
</tr>
<tr>
<td>Students build a model watershed and learn how human behavior affects life there by following the journey of “Fred the Fish” as he attempts to survive in a polluted city river.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetlands &amp; Water Quality</td>
<td>3—12</td>
<td>$100/class + travel fee</td>
</tr>
<tr>
<td>Students learn how these special ecosystems act as sponges, purifiers, buffers and nurseries. Students compare these natural cleaners to a water treatment plant by constructing their own water filter.</td>
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</tr>
<tr>
<td>Water Quality Testing</td>
<td>3—12</td>
<td>$100/class + travel fee</td>
</tr>
<tr>
<td>Students model the work of scientists as they use a combination of chemical and biological tests to determine the water quality of a local waterway.</td>
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<td></td>
</tr>
</tbody>
</table>
Schuylkill River National & State Heritage Area
Kurt D. Zwikl, Executive Director
140 College Drive
Pottstown, PA 19464
(484) 945-0200 Fax: (484) 945-0204
E-mail: kzwikl@scuylkillriver.org
Website: www.schuylkillriver.org

Description of Organization
Dedicated to assisting communities, organizations and citizens of the Schuylkill River region to preserve and sustain their cultural heritage and natural environment for future generations. Managed by the Schuylkill River Greenway Association, a Pennsylvania nonprofit.

Materials Available
Studies and reports associated with the Schuylkill River watershed (online)
Water trail guide maps (free, and for sale),
Watershed information

Programs Offered
Kutztown Institute—program for graduate-level art teachers

Scotland Run Park Nature Center
Gloucester County Parks & Recreation
L. Jill Taylor, Park Naturalist
6 Blackwood-Barnsboro Road
Sewell, NJ 08080
(856) 881-0845 Fax #: (856) 881-6402
Note: The Park is located on Academy Street (Co. Road 610) in Clayton

Organization Description
Scotland Run Park is the largest County Park in Gloucester County consisting of 940 acres of mature woodland, wetlands, field succession areas, and the 80 acre Wilson Lake. The park offers active and passive recreation opportunities including fishing, boating, hiking, nature observation, picnicking, and playground facilities. The Nature Center, which offers nature programs for all ages, is located across the street from the lake, and has artifacts and displays representing the South Jersey area.

Programs Offered
“Nature Lessons” are available, upon request, to schools and organizations that would like to have a guided tour of the Park. A variety of topics is offered. The Nature Center also presents “Environmental Education Workshops for Teachers” several times a year in coordination with NJDEP and other environmental organizations. The “Outreach Program” brings Nature to local students by exploring the environment of their own schoolyards. This program is available to individual classes at their facility. Educators from nearby schools and Rowan University use the park’s natural resources as an outdoor classroom to conduct their own lessons. For more information, request the “Scotland Run Park Nature Center Environmental Education Programs.”

(Continued)
Environmental Education Workshops
*Project Wild, Project Learning Tree (PLT), Aquatic Project Wild, Wild School Sites, Project WET (Water Education for Teachers), WOW (Wonders of Wetlands), Bridges to the Natural World* (Fee for books)

The Nature Center conducts a wide variety of programs for the general public. These include Scout Saturday, special presentations, field trips, bird walks, Kids Nature Club (4H), guided nature walks, workshops, campfire programs, and a volunteer program. The Federation of Gloucester County Watersheds and the South Jersey Land Trust also meet at the Nature Center. In conjunction with these organizations, Gloucester Co. Parks and Recreation holds the Cloucester County Waterfest at the park on the first Sunday in June. There is a Nature Day Camp offered during the month of July that provides in depth Nature study for children in grades 2-6. The activities for the Nature Center are announced in the quarterly newsletter “Nature Network” which is available free of charge.

Silver Lake Nature Center

Robert Mercer, Assistant Director
1306 Bath Road
Bristol, PA 19007
(215) 785-1177  Fax #: (215) 785-3228
E-mail: Rmoyer@co.bucks.pa.us
Website: www.SilverLakeNatureCenter.org

Organization Description
County owned nature preserve with a large, nonprofit friends group running day to day operations.

Materials Available
Loan Boxes, library, studies

Programs Offered
Onsite field trips and outreach trips to schools
South Branch Watershed Association, Inc. 
(SBWA)

Nicloe Rahman, Program Director—Education and Outreach
41 Lilac Drive
Flemington, NJ 08822
(908) 782-0422 x14  Fax #: (908) 782-4473
E-mail: nicolerahman@sbwa.org
Website: www.sbwa.org

Mission
The SBWA protects and enhances the water resources of the South Branch of the Raritan River and its watershed by means of community participation, local leadership, and innovation to improve the human and natural environments.

Materials Available
Various handouts on watersheds, groundwater, and macroinvertebrates. Call for availability.

Programs Offered
SBWA’s “Waterways Stewardship Project” is our core environmental education program for schools. It consists of in-class, in-field, and computer based learning experiences. Please call for availability and pricing.

Southern New Jersey Council BSA
Pine Hill Scout Reservation

Lewis E. Gorman, III, Chairman, Conservation Committee
Watsontown-New Freedom Road
Berlin, NJ 08009
(856) 482-0336
Email: Lewis_Gorman@fws.gov
Website: www.snjscouting.org

Organization Description
Scout camps (Pine Hill is in the NJ Pinelands at the headwaters of Big Timber Creek). Open to organizations with reservation and fee. Call (856) 327-1700.

Materials Available (free with entrance fee)
Video Nature Library (for onsite use - TV, VCR, DVD available)
Field Guides for birds, fish, Pinelands, etc.
Leave-No-Trace Educators Guide

Programs Offered
Guided nature trail program—tree identification, animal signs and tracks

Roosevelt Scout Camp

384 Watsons Mill Road
Elmer, NJ 08318
Stroud Water Research Center

Dr. James Blaine, Director of Education
970 Spencer Road
Avondale, PA 19311
(610) 268-2153 x268 Fax #: (610) 268-0490
E-mail: jblaine@kennett.net
Website: www.stroudcenter.org

Mission
To increase the appreciation and knowledge of streams and rivers through research and education. SWRC is a stream research facility with an active education and outreach program.

Programs Offered (fee based unless grant funded)
Teacher Workshops for professional development
Leaf Pack Network workshops
GLOBE Workshops
Field trip programs to SWRC (stream study) $275 per 4 hour program, consisting of hands-on stream and watershed investigations

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Temple University Environmental Studies Program

Robert J. Mason, Director, Environmental Studies Program
309 Gladfelter Hall, Temple University
Philadelphia, PA 19122
(215) 204-5918 Fax #: (215) 204-7833
E-mail: rmason@temple.edu
Website: www.temple.edu/env-stud

Organization Description
Degree-granting program, offering a BA and BS in Environmental Studies; highly interdisciplinary, including anthropology, biology, geography, geology, urban studies, economics, political science, community and regional planning.

Materials Available
Descriptive materials about our degree programs, and a “Green Guide” (local environmental organizations on our website)

Programs Offered
Visits can be arranged.
Tyler Arboretum

Betsey Ney, Director of Public Programs
515 Painter Road
Media, PA 19063-4424
(610) 566-9134 x214 Fax #: (610) 891-1490
E-mail: bney@tylerarboretum.org
Web site: www.TylerArboretum.org

Mission
To preserve, develop and share our diverse horticultural, historical and natural site resources in order to stimulate an understanding of the living world.

Programs Offered
Tyler Arboretum's environmental education programs focus on the plants, animals, and insects that populate the rich ecological habitats within the property's 650 acres of woodlands, meadows, and streams. Guided tours provide interactive and fun experiences. Programs support PA curriculum standards. Pre-school and kindergarten: $4 per student. Grades 1-6: $5 per student. Parents and chaperones are free.

United Nations Association—Greater Philadelphia Chapter

Norma Van Dyke, President
1501 Cherry Street
Philadelphia, PA 19102
215-241-5738 Fax#: 215-241-7278
E-mail: info@unagp.org
Website: www.unagp.org

Organization Description
UNA-USA is our nation’s largest grassroots foreign policy organization building public support for the United Nations.

Materials Available
Speakers bureau
Educational materials
Members Day trip to the United Nations
Other information available upon request

Programs Offered
Internships
Speaking events
Educational functions and meetings
United States Coast Guard—Sea Partners Program

ENS Williams, Sea Partners Coordinator
One Washington Avenue
Philadelphia, PA 19147
(215) 271-4905  Fax #: (215) 271-4892
E-mail: Tamisha.L.Williams@uscg.mil
Website: www.uscg.mil/d5/sector/delawarebay/index.htm

Mission
The Sea Partners Program is the U.S. Coast Guard’s environmental education and outreach program providing information to the public on protecting the marine environment.

Programs Offered
Speakers are available to discuss the United States Coast Guard’s role in protecting the environment, provide information on marine pollution issues, and to motivate public conservation of the marine environment. (No charge)

United Water Delaware & United Water Bethel

Susan D. Rife, Customer Service Manager
2000 First State Blvd.
Wilmington, DE 19804
(302) 633-5900  Fax #: (302) 633-5921
E-mail: uwde@unitedwater.com
Website: www.unitedwater.com/UWDE

Organization Description
Water provider to over 100,000 people in northern Delaware and southeastern Pennsylvania.

Materials Available
Several videos on water, age appropriate activity books on water conservation, and the hydrologic cycle, along with brochures, pamphlets, stickers, bags, sponges and water bottles are available.

Programs Offered
Plant tours at the Stanton water treatment facility and speakers are provided free of charge. Programs are geared to the age group and the topics requested.
University of Delaware College of Marine Studies

Dr. William R. Hall, Jr., Marine Education Specialist
700 Pilottown Road
Lewes, DE 19958
(302) 645-4253 Fax #: (302) 645-4213
E-mail: bhall@udel.edu
Web site: www.ocean.udel.edu

Mission
The University of Delaware Graduate College of Marine Studies (CMS) is dedicated to advancing the knowledge, use and conservation of the ocean and its resources. Our goal at CMS is to educate well rounded scientists and policy specialists who have the broad vision and interdisciplinary background necessary to address the sweeping, interrelated problems that face marine and coastal environments. CMS is a Graduate College offering masters and doctoral degrees in the marine sciences. Two campuses, located in Newark and Lewes, DE.

Materials Available
Technical and non-technical publications are available either online or by calling 302-831-8083 for a publications brochure. The MAS bulletin series targets students and most are correlated to the state and national teaching standards.

Programs Offered
Tours are available for the public including school groups, 7th grade and above. There is no charge and they can be combined with a tour of the DELRIVER, an oil recovery vessel.

University of Delaware,
Institute for Public Administration
Water Resources Agency

Gerald J. Kauffman, PE, Director
DGS Annex, Academy St.
Newark, DE 19716
(302) 831-4929 Fax #: (302) 831-4934
E-mail: jerryk@udel.edu
Web site: www.wr.udel.edu or www.ipa.udel.edu

Mission
To provide regional water resources planning, management, and policy assistance to state, local governments and the public in Delaware and the Delaware Valley through the University’s service, education, and research role.

Materials Available
Watershed maps of Delaware and the Delaware River Basin
Watershed and water supply data reports for Delaware
GIS maps and data for Delaware

Programs Offered

Education: UAPP 611 Regional Watershed Management, UAPP 652 GIS in Public Policy; UAPP 655 GIS in the Public and Nonprofit Sector; CIEG 440 Water Resources Engineering; CIEG 467 Watershed Engineering, Planning, and Design; LEAD 201 Introduction to Consumer Policy; DE K-12 GIS Education Initiative; Fall 2006 Delaware Annual Water Forum – the Delaware River

Research: Delaware River Basin Commission, State of the Watershed Report Card; UD Experimental Watershed; Grehl’s Rain Garden; Blue Hen Creek Stream Restoration
University of Delaware,
Marine Public Education Office

Kimberly Doucette
222 S. Chapel Street, Room 103
Newark, DE 19716
(302) 831-8083   Fax #: 302-831-2005
E-mail: doucette@cms.udel.edu

Description of Organization
Located on the University of Delaware's Newark campus, the Marine Public Education Office serves as the public information and media relations center for both the UD College of Marine Studies and the Delaware Sea Grant College Program. The Marine Public Education Office works closely with marine scientists to translate complex research into engaging, easily understandable publications, Web sites, exhibits, audiovisuals, and on-line expeditions. The staff also works closely with the print and broadcast media, the UD Public Relations Office, the Sea Grant Marine Advisory Service, and other Sea Grant programs and marine institutions around the nation to extend information to the public.

Materials Available
Newsletters: At Sea - Catch the wave, and subscribe today! http://www.ocean.udel.edu/atsea/subscription.asp

Publications: Publications Catalog is available both online and in print. Free. http://www.ocean.udel.edu/seagrant/publications/pubcatalog.html

K -12 Teaching Resources Free or low-cost resources for K-12 teachers seeking marine science information and curriculum materials http://www.ocean.udel.edu/public/teacher.html
The Horseshoe Crab: Pocket-sized Web card that illustrates several interesting facts about this remarkable creature. Free.
10 Things You Can Do to Help Our Ocean: Pocket-sized Web card that gives tips on ocean preservation and awareness.

Programs Offered
Volunteer Programs: If you would like to volunteer your time, energy, and enthusiasm for a worthy cause, check out these programs offered. http://www.ocean.udel.edu/public/volunteer.html

Coast Day: This annual event is designed to showcase UD’s efforts in marine research and education and to celebrate Delaware’s ocean and coastal resources. Coast Day is held on the first Sunday in October, from 11 a.m. to 5 p.m., at UD’s Hugh R. Sharp Campus in Lewes. Admission is free; parking is $2.

College of Marine Studies Tours: Free tours of the UD College of Marine Studies’ Hugh R. Sharp Campus in Lewes introduce visitors to marine research being conducted at the college. Tours are offered every Friday, from June through August, starting at 10:30 a.m. They also may be arranged throughout the year, Monday through Friday, between 10:00 a.m. and 4 p.m. Suitable for ages 12 and up. For reservations, please call (302) 645-4346.

Ocean Current Lecture Series: This free lecture series is offered on the third Thursday of every month, from April through September, beginning at 7 p.m. in Cannon Laboratory at the Hugh R. Sharp Campus of the UD College of Marine Studies in Lewes. For more information, please call (302) 645-4279.

Wilmington Lecture Series: This lecture series is offered periodically from late autumn through spring, 11:30 a.m. to 1:00 p.m., at the award-winning Hotel du Pont in Wilmington. A $15 fee covers the cost of lunch (price current as of January 2006). For more information call (302) 831-8062, or send an e-mail to marinecom@udel.edu.
Urban Tree Connection
“Building Community One Vacant Lot At A Time”

Saul Wiener, Executive Director
5125 Woodbine Avenue
Philadelphia, PA 19131
(215) 877-7203  Fax #: (215) 877-7204
E-mail: eweiser@aol.com
Website: www.urbantreeconnection.org

Mission
To develop community stewards who will advocate for the informed use of public open space, including, but not limited to, residential and commercial streetscapes, abandoned vacant lots and parks. Working with children and community residents at the heart of its planning, the Urban Tree Connection sees its work as part of the process of revitalizing, restoring and reclaiming communities.

Materials Available
Custom designed constructivist environmental service learning projects (school/community based) for pre-K through college. Materials are not charged.

Programs Offered
Urban Tree usually contracts with public schools for $5,000 for an academic year to work on a weekly basis. We can also work at an hourly rate to do professional development.

U.S. Environmental Protection Agency

Amie Howell  Irene Purdy
U.S. EPA, Region III  U.S. EPA, Region II
1650 Arch Street  290 Broadway, 24th Floor
Philadelphia, PA 19103  New York, NY 10007-1866
(215) 814-5722   Fax#:  (215) 814-2301   (212) 637-3845
E-mail: howell.amie@epa.gov    purdy.irene@epa.gov
Website: www.epa.gov

Organization Description & Mission
The mission of the Environmental Protection Agency is to protect human health and to safeguard the natural environment - air, water, and land - upon which life depends. The U.S. EPA implements the Federal laws designed to promote public health by protecting our Nation’s air, water and soil from harmful pollution. EPA endeavors to accomplish its mission systematically by proper integration of a variety of research, monitoring, standard-setting, and enforcement activities. As a complement to its other activities, EPA coordinates and supports research and anti-pollution activities of state and local governments, private and public groups, individuals, and educational institutions. EPA also monitors the operations of other federal agencies with respect to their impact on the environment.

Materials Available
Various materials are available for teachers on many environmental topics from the Public Information Center in Region III at (215) 814-5121 and the Public Outreach Branch, Communications Division in Region II at (212) 637-3675.
U.S. Fish & Wildlife Service, John Heinz National Wildlife Refuge at Tinicum

Erika Scarborough
Environmental Education Specialist
8601 Lindbergh Boulevard
Philadelphia, PA 19153
(215) 365-3118  Fax #: (215) 365-2846
E-mail: Erika_Scarborough @FWS.gov
Website: http://heinz.fws.gov

Mission/Organization Description
To preserve and protect fish, wildlife, plants and their habitats for the benefit of the American people. The Refuge is part of a nationwide system of protected lands totaling over 95 million acres.

Materials Available
Act 48 approved professional development courses throughout the year provided at the refuge or on-site as pre-service or in-service.
Indoor classrooms, Loan Box Program, Environmental learning library.
Small Charge for workshops, call staff for more information.

Programs Offered
Field trips are self-guided on a 1,200 acre Refuge with 5 habitats. The Cusano Environmental Education Center has hands-on exhibits and a gift shop. Center also features GREEN construction with low impact on the environment.

Wells Mills County Park

German Georgieff, Chief Naturalist
905 Wells Mills Road
Waretown, NJ 08758
(609) 971-3085   Fax #:  (609) 971-9540
E-mail: ggeorgieff@co.ocean.nj.us
Website: www.oceancountyparks.org

Mission
To promote environmental education and outdoor recreation with a focus on the New Jersey Pine Barrens.

Programs Offered
Nature walks
Hikes
Slideshows
Visiting naturalist program (Ocean County schools only) - can be tailored to current topic of study
Career Day presentations
Canoeing and kayaking

No charge for programs.
The Wetlands Institute

1075 Stone Harbor Blvd.
Stone Harbor, NJ 08247-1424
(609) 368-1211   Fax #: (609) 368-3871
Web site: www.wetlandsinstitute.org

Mission
To promote appreciation and understanding of the vital role wetlands and coastal ecosystems play in the survival of life on this planet.

Programs Offered
Workshops are available for teachers

Marsh Critters & Discovery Walk   Grades PreK-2   1 Hour   $6/student
The salt marsh is home to a variety of special creatures. Students will discover the world of fiddler crabs and killifish as they explore this unique ecosystem.

Cycles of Life   Grades 3-4   1½ Hours   $7/student
Through activities, students discover food web connections among plants and animals within the inter-workings of the marsh ecosystem.

Turtle Talk   Grades 3-4   1½ Hours   $7/student
Why does the diamondback terrapin cross the road? Examine the life history of this turtle; why they become so active during the spring and what they do during the rest of the year.

Horseshoe Crabs & Shorebirds   Grades 4-8   2 Hours   $8/student
Students learn about the interconnectedness of life forms in the Delaware Bay area with emphasis on the relationship between horseshoe crabs and migrating shorebirds. This program can be followed up by a visit to the Bay during Spring migration.

Wetlands Ecology   Grades 5-12   2 Hours   $8/student
Students will probe the many values of the wetland ecosystem through discussion followed by a hands-on experience of the marsh. Nets can be used to collect specimens.

Barrier Beach Ecology   Grades 5-12   2 Hours   $8/student
Travel from the Institute to Stone Harbor Point to observe and examine beach and tidal pool plant and animal life. Sampling nets can be used. Scheduled during low tide.

If your class has special needs, please call to see if your interests can be accommodated.
Wildlife Habitat Council (WHC) - Corporate Lands for Learning (CLL)

Thelma Redick, Education & Outreach Program Manager
c/o Wildlife Habitat Council
100 Bayer Road
Pittsburgh, PA 15205
412-264-3611 Fax#: 412-777-2072
E-Mail: CLL@wildlifehc.org
Website: http://www.wildlifehc.org/corporatelands/

**Organization Description**
The Wildlife Habitat Council (WHC) works to increase the amount of quality wildlife habitat on corporate, private and public lands. Corporate Lands for Learning (CLL) programs foster in learners, both adults and children, a clear understanding of the interdependence of ecology, land management and social structures in both urban and rural areas.

**Materials Available**
- CLL Guidebook: Instructs corporations and educators how to develop a successful CLL program. Contact cll@wildlifehc.org for information.
- Fish and Wildlife Habitat Management Leaflets: Free leaflets provide resources on habitat management. http://www.wildlifehc.org/managementtools/leaflets.cfm

**Programs Offered**
WHC works with corporations to establish outdoor learning laboratories using wildlife habitat as a focus. These companies invite surrounding community members to participate in educational activities, habitat projects and nature based recreation on their corporate lands. WHC also offers teacher and employee training to support different habitat projects.

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**Wissahickon Environmental Center**

Patricia Fries
Tree House
Northwestern Avenue
Philadelphia, PA 19118
(215) 685-9285
E-mail: patricia.fries@phila.gov
Website: http://www.fairmountpark.org/WissahickonEC.asp

**Mission**
To utilize the unique resources of Fairmount Park to promote environmental understanding, appreciation, and stewardship. From neighborhood to region to world, our actions impact our environment and our environment impacts our quality of life.

**Materials and Programs Available**
Please see website for detailed information.
Wissahickon Restoration Volunteers

Nancy Kahn, Director
3721 Midvale Avenue
Philadelphia, PA  19129
(215) 951-0330 x101   Fax #: (215) 951-0342
E-mail:  wfv.nancy@rhd.org
Website:  http://wissahickon.patrails.org

Organization Description
WRV is a community based environmental organization that is dedicated to preserving the biological diversity and scenic tranquility of the 1,426 acre Wissahickon Valley section of Fairmount Park.  The primary goal of WRV’s ecological restoration program is to promote the sustainable use of the Valley and improve the long-term ecological health of this exceptional natural resource while educating members of the community on responsible environmental stewardship through experiential learning.

Materials Available
Quarterly newsletters—free. (May be downloaded from the website)
Informational brochure

Programs Offered
Service learning opportunities for individuals and groups in on-going restoration projects.  There is no charge to participate in field activities that include control and removal of invasive species, native plant conservation, reforestation, trail maintenance, preservation of wildlife habitat, and trash removal.

Wissahickon Valley Watershed Association (WVWA)

Judith Gratz, Director of Environmental Education
12 Morris Road
Ambler, PA 19002
(215) 646-8866  Fax #: (215) 654-7489
E-mail: judith@wvwa.org
Website:  www.wvwa.org

Organization Description
The WVWA is a non-profit conservation organization that works to protect open space in the Wissahickon Valley, to enhance water quality in the Creek, and to provide environmental education for all ages.

Materials Available
Booklet listing macroinvertebrates found in the Wissahickon Creek, developed by WVWA includes drawings of each organism and information about their lives, food, predators, respiration, etc.
Pre-trip and post-trip materials provided to all teachers for the programs taught here.

Programs Offered
Wetlands and Watersheds  Lenni Lenape
Seasonal Walks  Maple Sugaring
Colors, Numbers & Shapes in Nature  Green Machine:  Plants
Sensory Awareness Walks  Insect Detectives
Meet the Animals  Integrated Pest Management (IPM)
Creek Peek  Water Conservation
Creek Study
Woodford Cedar Run Wildlife Refuge

Terri Loy, Director of Education
4 Sawmill Road
Medford, NJ 08055
(856) 983-3329 x1  Fax #: (856) 988-7897
E-mail: terriloy@comcast.net
Website: www.cedarrun.org

Organization Description
Located on 171 Pine Barrens acres surrounding Cedar Run Lake, the refuge has an education center, trails, and a live animal compound. A variety of environmental education programs serve 16,000 school and scout children annually. The refuge also rehabilitates 4,000 orphaned or injured wild animals each year.

Materials Available
Program brochure
Wildlife Gallery and Virtual Tour on website

Programs Offered
Refuge Adventures: on site interactive outdoor discovery programs. See website for details.
Refuge on Wheels: Interactive live animal programs at schools, preK-12.
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### Teacher Workshops

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### Wildlife

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Wildlife (Continued)

Delaware Museum of Natural History 30  DE
Great Swamp 44  NJ
Hawk Mountain Sanctuary 46  PA
Huntersdon County Parks & Recreation 48  NJ
New Jersey Division of Fish, Game & Wildlife 63  NJ
New Jersey Nature 64  NJ
Old Pine Farm Natural Lands Trust 65  NJ
Pennsylvania Wildlife Federation 73  PA
Prime Hook National Wildlife Refuge 80  DE
Wildlife Habitat Council 97  PA, NJ, DE
Woodford Cedar Run Wildlife Refuge 99  NJ

PLEASE NOTE: This index lists organizations based solely upon information provided for this publication, and may not completely represent available offerings for each organization. Please research organizations via websites and contact information for complete details on materials, programs and other opportunities available.
If your organization has materials or programs that would be helpful to educators, and would like to be in the next edition of this guide, please fill out the questionnaire below and mail it to:

**Partnership for the Delaware Estuary**  
One Riverwalk Plaza  
110 S. Poplar Street, Suite 202  
Wilmington, DE 19801

**Delaware Estuary Water Education Resource Guide Questionnaire**  
(Please photocopy this page and use the back for any additional information.)

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</table>
Attention Teachers and Estuary Educators!

Are you on the list? You know, the list that keeps you up to date on the latest Delaware Estuary events, workshops, teaching materials, contests and give-aways? If not, take a moment to fill out the information card below and send it in, or email your info to dross@delawareestuary.org. You will receive a free issue of Estuary News every quarter (don’t miss the Teacher’s Page) and anything else that comes “down stream” for education professionals in the region.

Yes, I would like to receive any materials for teachers, and information on programs, contests and give-aways!

Name: ______________________________________________________________________

School Name & Address: _____________________________________________________
___________________________________________________________________________
___________________________________________________________________________

School Phone: ____________________________
School Fax: ______________________________
Home Phone: _____________________________
E-mail: _________________________________

Cut out and send to: Partnership for the Delaware Estuary
One Riverwalk Plaza
110 S. Poplar Street, Suite 202
Wilmington, DE 19801
Or Call: 1-800-445-4935 x106