Dear Friends, 

The Philadelphia Water Department and the Partnership for the Delaware Estuary have teamed up to present you with the 2010 Delaware Estuary Water Education Resource Guide, a reference to the many exciting programs and resources for teaching water-related issues and concepts.

The Delaware Estuary, the tidal part of the Delaware River and Bay where fresh and salt water mix, is the most important natural resource in our region. It is a network of streams and rivers, and the land they drain, touching our lives by providing drinking water, economic opportunities, recreational opportunities, culture, history, and beauty. Too little is taught in our schools about this important local resource.

As an educator, you understand the importance of connecting educational concepts to children’s daily lives. For example, linking our local water resources - the river or stream in the neighborhood or school yard - to the water they drink. Our goal is to provide you with new ideas and resources for making environmental connections in your classroom, using the Delaware Estuary. We hope this Guide is a ready reference tool that you will use time and time again.

Thank you for the important work you do!

Sincerely,

Drew Brown
Manager of Public Education
Philadelphia Water Department

Jennifer Adkins
Executive Director
Partnership for the Delaware Estuary
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Map of the Delaware Estuary Watershed                  92

= Organizations involved with and/or offering programs or materials pertaining to the Schuylkill River Watershed.
Mission
Delaware Nature Society (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, Aquatics, Plants, Ecology, Earth Science, History and Art) including field trips, overnights, outreach, farm programs, science enrichment summer programs, teacher graduate courses and district-wide contract programs. DNS maintains three main program and experiential sites: Ashland Nature Center in Hockessin, Coverdale Farm in Greenville and Abbott’s Mill Nature Center (with its preserved, working mill) in Milford. In addition, DNS has been chosen to operate the DuPont Environmental Education Center at the Russell W. Peterson Urban Wildlife Refuge on the Wilmington Riverfront, and offers programs at Cooch-Dayett Mills in Newark. DNS owns or manages more than 1000 acres of wildlife habitat and education preserves. DNS is the Delaware affiliate of the National Wildlife Federation (NWF), offering input on national issues that concern citizens in our region. Streams Adoption Program is also available for schools. Please call for fees and to find out more about additional materials. Scholarships are available.

Delaware Nature Society’s Abbott’s Mill Nature Center is part of the Milford Millponds Nature Preserve along two tributaries of the Mispillion River. Abbott’s Mill maintains miles of hiking trails as well as an interpretive center featuring live animals and taxidermy displays open to the public. The Nature Center provides year-round educational programming for schools, scouts, and the public. Conservation and stewardship activities include the Backyard Wildlife Habitat program in affiliation with the National Wildlife Federation, as well as easements and land preservation.

Materials Available

Programs Offered
All programs are hands-on, fun, educational experiences. School programs in accordance with State Educational Standards, Freshwater and Marine Biology programs, Native American studies, natural history classes, Scout badge workshops, Teacher Training, Summer Camps, overnights, and guided hikes and canoe trips. Fees vary by program ($4-$7/person for school and scout programs, others vary by time and subject).
The Academy of Natural Sciences

Timshel Purdum, School Programs Manager
1900 Benjamin Franklin Parkway
Philadelphia, PA 19103-1195
(215) 405-5071, purdum@ansp.org
Website: www.ansp.org

Mission
The Academy of Natural Sciences is Philadelphia's Natural History Museum. The Academy is the oldest natural science research institution and museum in the Americas. Our mission is to create the basis for a healthy and sustainable planet through exploration, research and education.

Materials Available
Website educational supplements, We All Live Downstream, Living Downstream Interactive Watershed Exhibit--A hands-on display that connects human activities on land to the health of our water bodies.

Programs Offered
The Ultimate Warm Up (global Climate Change) Grades 7-9, $120 for up to 35 students.

Alapocas Run State Park / Wilmington State Parks

Barbara Woodford, Interpretive Manager
1021 W. 18th Street
Wilmington, DE 19802
(302) 577-7020, barbara.woodford@state.de.us
Website: www.destateparks.com/wilmington

Programs Offered
Wilmington and Alapocas Run State Parks offer educational programs both in our parks and at your school. Programs range in age from first grade through high school and include multi-curricular topics related to the Brandywine Creek and its natural and cultural development.

Alliance for a Living Ocean (ALO)

Elizabeth Burke, Executive Director
PO Box 2250
Long Beach Twp, NJ 08008
(609) 494-7800, alolbi@verizon.net
Website: www.livingocean.org

Mission
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.”

Programs Available
“What you can do to be a good steward of the environment”, $200 per talk/presentation
Appoquinimink River Association

Daniel O’Connell, President
PO Box 341
Middletown, DE 19709
(302) 382-0335, info@apporiver.org
Website: www.apporiver.org

Organization Description
The Appoquinimink River Association works to preserve, protect and enhance the rivers and related natural resources of southern New Castle County, Delaware.

Materials Available
- Delaware Nonpoint Source Educational Materials and Public Events and Programs Survey - CD providing a listing of nonpoint source educational materials, programs and events available and applicable for use in Delaware.
- Rain Barrels - brochure describing what rain barrels are, why we need them, and how to make them.
- Rain Gardens - brochure describing what rain gardens are, why we need them, and plants that would be suitable for inclusion.
- Our Little Piece of Paradise - brochure describing the plight of the Appoquinimink watershed including things everyone can do to protect water quality.

Programs Available
- School, scout troop, homeowner association, civic association and government presentations on water quality, watersheds, things children and adults can do to help prevent water pollution, habitat creation, rain gardens, rain barrels, backyard conservation and more.

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 Resources Corporation

Joanne C. Rufft, Director of Community Relations & Environmental Initiatives
664 Churchmans Road
Newark, DE  19702
(302) 453-7144, jrufft@artesianwater.com
Website: www.artesianwater.com

Organization Description
Artesian Resources Corporation operates as the holding company of eight wholly-owned subsidiaries offering water, wastewater and engineering services. Artesian Water Company, the principal subsidiary, is the oldest and largest investor-owned public water utility on the Delmarva Peninsula, and has been providing water service since 1905. We are an EPA WaterSense partner.

Materials Available
A variety of free handouts on water-related and conservation topics are available upon request. Handouts include water conservation stickers, rulers, leak detector tablets, sponges, conservation tips, EPA’s WaterSense materials, etc.

Programs Offered
Since 1992, our fourth-grade “Water Conservation and Education Program” has been available to schools free of charge. Artesian also offers speakers for groups on a variety of water-related topics, tours of water and wastewater treatment plants, and our water education and conservation booth can be set up for community and environmental events. There is no charge for these programs.

Ashland Nature Center – Headquarters of Delaware Nature Society

David Pragoff, School and Group Programs Team Leader
P.O. Box 700
3511 Barley Mill Road
Hockessin, DE  19707
(302) 239-2334 x 133, davidp@delawarenaturesociety.org
Website: www.delawarenaturesociety.org

Mission
Delaware Nature Society (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, Aquatics, Plants, Ecology, Earth Science, History and Art) including field trips, overnights, outreaches, farm programs, science enrichment summer programs, teacher graduate courses and district-wide contract programs.

DNS maintains three main program and experiential sites: Ashland Nature Center in Hockessin, Coverdale Farm in Greenville and Abbott’s Mill Nature Center (with its preserved, working mill) in Milford. In addition, DNS operates the DuPont Environmental Education Center at the Russell W. Peterson Urban Wildlife Refuge on the Wilmington Riverfront, and offers programs at Cochch-Dayette Mills in Newark. DNS owns or manages more than 1000 acres of wildlife habitat and education preserves. DNS is the Delaware affiliate of the National Wildlife Federation (NWF), offering input on national issues that concern citizens in our region. Streams Adoption Program is also available for schools. Please call for fees and to find out more about additional materials. Scholarships are available.

(Continued)
Located near Hockessin, Delaware, Ashland Nature Center serves as the Delaware Nature Society headquarters and the hub for all activities of education and natural resource conservation. The facility is open to the public year round, features an overnight lodge for school and public groups, a seasonal butterfly house, picnic area and four self-guided trails through a variety of habitats. Programs are offered for all ages as well as courses for teachers. The property includes over 242 acres and is owned by the Red Clay Reservation, a private land trust.

Materials Available
DVD or VHS video: “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
Red Knot: A Shorebirds Incredible Journey
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 seeking intensive professional development through a course of study approved for a plus 15 salary increment.
Permission required by instructor Helen Fischel – 302-239-2334, ext. 114 or helen@delawarenaturesociety.org

ENWC 501 Natural History for Teachers 3 Credits
SCEN 567 Delaware’s Ecosystems 3 Credits
EDUC 643 Environmental Education 3 Credits
EDUC 808 Internship in Education 3 Credits

Student Aquatic Programs
Aquatic Habitats  Grades K-3  1 ½ Hours  $6 / Student
Delaware Bay Study  Grades 4-12  3 Hours  $8 / Student
Exploring by Canoe  Grades 6-12  4 Hours  $32 / Student
Pond Ecology  Grades 4-12  2 Hours  $6 / Student
Pond Study  Grades K-3  1 ½ Hours  $6 / Student
Spring Amphibians  Grades K-8  1 ½ Hours  $6 / Student
Stream Ecology  Grades 4-12  2 Hours  $6 / Student
Springs and Streams  Grades 6-12  2 Hours  $6 / Student
Watersheds and Stream Quality  Grades 6-12  2 ½ Hours  $7 / Student

Student Summer Science Enrichment Programs:
Freshwater Aquatic Biology (For students entering grade 6 & 7)
Explore and study freshwater systems. Canoe the Dragon Run Creek, use collecting equipment to survey streams/marshes/ponds; maintain individual aquariums and conduct research on a component of freshwater biology. Program is based at Ashland Nature Center and 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, 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.

Abbott’s Mill Nature Center and the DuPont Environmental Education Center have separate listings in this guide. Information about all DNS sites can be viewed on the web at www.delawarenaturesociety.org.
Audubon Pennsylvania
John James Audubon Center at Mill Grove

Steven Saffier, Director, Audubon At Home program
1201 Pawlings Road
Audubon, PA 19403
610.666.5593 x112, ssaffier@audubon.org
Website: http://pa.audubon.org

Mission
The Mission of Audubon Pennsylvania is to conserve and restore natural ecosystems, focusing on birds, other wildlife, and their habitats for the benefit of humanity and the earth’s biological diversity in Pennsylvania.

Materials Available
Audubon offers the book, “Gardening for Life in Southeastern Pennsylvania” and a number of free brochures.

Programs Offered
The Audubon At Home program and its “Bird Habitat Recognition” program empower people to create healthy habitats on built landscapes to benefit birds and insects and to restore plant communities and protect watersheds. In the future, entire municipalities will be recognized as part of the “Bird Town, PA” program. The Important Bird Area (IBA) program identifies key areas of habitat in Pennsylvania that are significant for the number of birds or birds of conservation concern present. Fairmount Park and Tinicum National Wildlife Refuge represent two of the 85 IBAs in the state. Expert speakers for group events, conferences, and media opportunities are available.

Estuary Fast-Fact:
Estuaries are bodies of water that are partially surrounded by land. They contain a mix of fresh and saltwater that is affected by ocean tides and river currents.
Bayshore Discovery Project

2800 High Street (Bivalve)
Port Norris, NJ 08349
856-785-2060 x 103, 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 history, culture, and the environment 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, the A.J. Meerwald, guided education tours of a local 4,200 acre salt marsh, and guided educational tours through the Delaware Bay Museum and Folklife Center 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 chemistry, plankton, food webs, renewable energy, 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 sailing classroom the schooner 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 and Folklife Center. This program is often combined with an education sail making it a full day for students for $1,000. 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. Also available are teacher workshops, adult and youth summer sailing camps, tailored education programs, and a public lecture series.

Berks County Conservancy

Tami Shimp, Director of Development
25 N. 11th Street
Reading, PA 19601
(610) 372-4992, 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, and smart growth (conservation sensitive development). Travel expenses apply. Materials are available based upon the needs of the presentation.
Mission
The primary mission of Bombay Hook National Wildlife Refuge is to provide resting and feeding habitat for migratory bird species, while also maximizing habitat for resident birds, all other wildlife, and plant life. Our programs educate about wildlife, habitat conservation, and the National Wildlife System.

Materials Available (all at no charge)
- Brochures and Lesson Plans
- Bombay Hook NWR General Brochure
- Bombay Hook NWR Bird List
- Bombay Hook NWR Auto Tour Brochure
- Boardwalk Trail Brochure
- Parson Point Trail Brochure
- Bear Swamp Trail Brochure
- Civilian Conservation Corps History
- Lesson Plan 1: Freshwater Investigation
- Lesson Plan 2: Salt Marsh Investigation
- Lesson Plan 3: Delaware Bay Investigation
- Lesson Plan 4: Forest Investigation

Programs Offered (free to schools)
Bombay Hook offers hands-on nature studies for grades one through twelve, allowing students to experience the several habitats on the refuge – from tidal salt marsh to freshwater impoundments, upland fields, and forests.

Wildlife Tour of the Refuge: Tour includes description of management techniques used to enhance habitats, description of various habitats, history of the refuge, and identification of birds and other wildlife found on the refuge. Available for grades one through twelve. Refuge guide or teacher guided tour.

Nature Walks: A total of five trails (three leading to observation towers) range from one quarter to one mile in length and emphasize wetland values, habitat distinctions, and wildlife identification. Available for grades one through twelve. Refuge guide or teacher guided walk.

Habitat Studies: Four habitat studies are available for grades three through twelve (water quality studies limited to grades five 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: Students use dip nets to capture and study aquatic specimens. May include water quality analysis.
- Brackish and Salt Marsh Lesson: Students use dip nets to capture and study brackish water specimens. May include water quality analysis.
- Bay Lesson: 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: Students search the forest floor for specimens and determine species identification and characteristics.

A video tape on the National Wildlife Refuge System is available. Talks by refuge staff also are available on a limited basis. Most school groups will select a combination of the above program opportunities based on the school’s curriculum objectives, grade level, and length of time the group will be on the refuge. Refuge staff can assist in planning the day’s activities.

(Continued)
**Planning for the Visit:** Teachers can obtain material for each of the four lesson plans, as well as other information necessary to prepare the class before the visit by contacting Tina Watson, Outdoor Recreational Planner at 302-653-6872. It is expected that there will be classroom preparation before the visit as well as follow-up after the visit so that this can be a successful learning experience. One day training programs for teachers, scout leaders, and volunteers are held periodically to prepare those in charge of visiting classes or groups. Contact Tina Watson, Outdoor Recreational Planner at 302-653-6872 for information about the training programs.

**Facilities:** A twelve-mile auto trail winds through the upland area of the refuge and connects with the five walking trails. The Visitor’s Facility at the entrance to the refuge includes administrative office, restrooms, an auditorium, exhibits, and a Refuge Store. Picnic tables are located outdoors and adjacent to the Visitor’s Facility. No food or beverages are available on the refuge. Students, teachers, chaperones, and bus drivers must bring boxed lunches. There are no restroom facilities on the refuge other than those in the Visitor’s Facility. All activities are outdoors, except for videos and staff talks which are held in the auditorium of the Visitor’s Facility.

**Tips for a Safe and Comfortable Visit:** Long sleeves and long pants that can be tucked into socks to discourage mosquito, fly, and tick bites are strongly recommended, as is proper footwear for walking in sometimes wet areas. Insect repellent also can be helpful, however, teachers and chaperones should supervise its use. A tick check should be conducted after the visit. Teachers and chaperones should instruct students to walk in the middle of the paths when on the walking trails in order to avoid contact with poison ivy.

**Chaperones:** A 1 to 5 ratio of chaperones to students is ideal, particularly for the lower grades, and this ratio should not exceed 1 to 10 for any age group. Proper supervision of students is necessary at all times and is not the responsibility of Refuge Staff.

**Things to Remind Students:**
- Stay on designated trails to avoid contact with poison ivy and ticks.
- Walk quietly and keep noise to a minimum in order not to disturb wildlife.
- Leave only footprints.
- Place all litter in containers at the Visitor’s Facility or take it with you.
- Don’t take any plant or animal material from the refuge.
- What you bring here take with you; what you find here leave here.
- Understand that you are here to learn about nature; that you can have fun, but that this is not “a day off.”

**Things for the Teacher to do:**
- Contact Tina Watson to plan and schedule an Environmental Education Program at Bombay Hook for your class.
- Consider participating in one of the one-day training programs for teachers.
- Obtain lesson plans from the Bombay Hook website (or by calling Tina Watson).
- Get chaperones for your class – 1:5 recommended ratio.
- Consult with your bus driver to determine the exact time your bus must return to the school from Bombay Hook and make sure the Naturalist conducting your visit is made aware of this time. The bus is used to transport the children to different locations on the Refuge.
- Arrive at the refuge at the scheduled time so that the activity planned for your class is not disrupted.
Brandywine Valley Association (BVA)

Giselle Cosentino, Education Director
1760 Unionville-Wawaset Road
West Chester, PA 19380
(610) 793-1090, 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.

Programs Offered
More than 50 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

1001 North Park Drive
Wilmington, DE 19802
(302) 571-7747
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 (see website for details)
Teacher In-service Programs and Workshops through the Delaware Teacher Center
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 and Outreach Programs are available.
Briar Bush Nature Center (BBNC)

Anne-Marie D’Onofrio, Development Coordinator
1212 Edgehill Road
Abington, PA 19001
(215) 887-6603, adonofrio@briarbush.org
Website: www.briarbush.org

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
Onsite/Trail Hikes: Abington Residents - $5/person  Non-residents - $7/person
Offsite @ $60 for Abington Township, $85 for non-Abington
2 hrs. @ $250 for StarLab (portable planetarium)
Fees will differ depending on length of program and multiple hours of programming.
Animal (Critters to Kids, Reptiles Are the Rage, Worlds Most Wanted, etc.), Native American (Lenape Living, Primitive Skills, etc.), Pond Study, Scouts

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

Stephanie Foster, Environmental Educator
2877 Creamery Road
New Hope, PA 18938
(215) 297-5880, StephanieFoster@bcas.org
Website: www.BCAS.org

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

Organization Description
Since its inception in 1969, 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 in Solebury Township and is open to groups for educational programs throughout the year. 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, owned jointly by the Bucks County Audubon Society, Heritage Conservancy and the Crooks family.

Materials Available
Pre- and post-trip materials that compliment lessons at Honey Hollow Environmental Education Center

Programs offered
School Class Trips
Classroom Outreach
Topics include: Insects, Wetlands and Watersheds, Animal Evidence, etc.
All classes help teachers address the PA State Standards for ecology and the environment
Bucks County Conservation District

Mary Ellen Noonan, Environmental Educator
Meghan Rogalus, Watershed Specialist
1456 Ferry Road, Suite 704
Doylestown, PA 18901
(215) 345-7577, maryellennoonan@bucksccd.org, meganrogalus@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.
Educational materials on rain gardens, native and invasive plants, land use issues, stormwater issues.

Programs Offered
Bucks County Envirothon, Programs on soil and watersheds—call for information
Environmental and Ecology Act 48 courses for teachers

Cape May County Department of Mosquito Control

Peter J. Bosak PhD, Superintendent
PO Box 66
Cape May Court House, NJ 08210
(609) 465-9038

Mission
To perform mosquito research, virus testing 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
Programs on Mosquito Biology and general Entomology are available upon request. Trips to our facility are preferred for the most complete program but can also be done off site.

Cape May-Lewes Ferry

Charisse Rudolph, Customer Service Manager
P.O. Box 827
N. Cape May, NJ 08204
(800)643-3779, customerservice@drba.net
Website: www.cmlf.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 and Programs
Lighthouse Pete Coloring Book—Free, Land Tour—Free, Round-Trip Boat Ride (Foot Passenger) $6.50 per person
Cape May National Wildlife Refuge

Howard Schlegel, Refuge Manager
24 Kimbles Beach Road
Cape May Court House, NJ 08210
(609) 463-0994
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.

Carbon County Environmental Education Center

Susan Gallagher or Jeannie Carl, Chief Naturalist/Naturalist
151 E. White Bear Drive
Summit Hill, PA 18250
(570) 645-8597
Website: www.carboneec.org

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.

Programs Offered
Live Eagles, 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
Annual Rafting Trek
Envirothon
Conservation Camp
Creepy Crawlers
Ranger Rick Club
**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, flewis@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.

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**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, 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 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 State Park
1023 Sycamore Mills Road
Media, PA 19063
610-892-8731, info@crcwatersheds.org
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
Corporate and school community service projects, CRC Annual Streams Cleanup (first Saturday in May), West Chester Area Earth Day Streams Cleanup, streamside tree planting and restoration projects, water quality monitoring, school watershed and homeowner education programs upon request.

Citizens for Pennsylvania’s Future (PennFuture)

Christine Knapp, Director of Outreach
1518 Walnut Street, Suite 1100
Philadelphia, PA 19102
(215) 545-9692, knapp@pennfuture.org
Website: www.pennfuture.org

Organization Description
PennFuture works to create a just future where nature, communities and the economy thrive. We enforce environmental laws and advocate for the transformation of public policy, public opinion and the marketplace to restore and protect the environment and safeguard public health. PennFuture advances effective solutions for the problems of pollution, sprawl and global warming; mobilizes citizens; crafts compelling communications; and provides excellent legal services and policy analysis.

Clean Water Action

1315 Walnut St #1650
Philadelphia, PA 19107
phillycwa@cleanwater.org
Website: http://www.cleanwater.org/

Organization Description
Clean Water Action has been working since 1972 to mobilize people around protecting the environment and public health, and to restore democracy so that it is more responsive to the need to protect our natural commons. We have over 1.2 million members in the United States and have worked in Pennsylvania to restore streams, protect the sources of drinking water and keep harmful toxics out of contact with children and workers.
Conserve Wildlife Foundation of NJ

Maria Grace, Education and Outreach Manager
PO Box 400
Trenton, NJ 08625-0400
(609) 984-0621, maria.grace@conservewildlifenj.org
Website: www.conservewildlifenj.org

Organization Description
The Conserve Wildlife Foundation of NJ is dedicated to protecting New Jersey’s rare and endangered wildlife through research, conservation, management, education and outreach.

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 (available on our website)
CD of Frog and Toad Calls of NJ = $10.00 plus S&H
Field guide to NJ’s reptiles and amphibians = $15.00 plus S&H
Wildlife Viewing Guide = $11.00 plus S&H
Species on the Edge Calendar = $10 plus S&H

Programs Offered
In-service and Professional Development workshops focusing on NJ’s rare, threatened, and endangered wildlife vary in price but average a $40 donation per teacher. Classroom/School programs about NJ’s rare, threatened, and endangered wildlife vary in price but average a $150 donation. Adopt A Species for the Classroom Program starts at just $30 per adoption. Please visit www.conservewildlifenj.org for more information or call (609) 984-0621.

D&R Greenway Land Trust
Friends for the Marsh

Linda Mead, Executive Director
One Preservation Place
Princeton, NJ 08540
(609) 924-4646, info@drgreenway.org
Websites: www.drgreenway.org; www.marsh-friends.org

Organization Description
Founded in 1989, 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, Trina Cale-Rosario
4876 Hay Point Landing Road
Smyrna, DE 19977
(302) 653-2882, gary.kreamer@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, for groups participating in the state’s successful Adopt-a-Wetland Program, and for teachers at schools that have wetlands or other aquatic schoolyard habitats they wish to use as outdoor classrooms. 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.

Programs Offered
ARE Center Facilities Use: contact Brenda Keel, x100, brenda.keel@state.de.us - Located in the scenic Woodland Beach Wildlife Area on the marshlands bordering Delaware Bay, the ARE facilities complex (including conference rooms, overnight lodge with 40 beds, pavilion, 940-foot salt marsh boardwalk trail, catch-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.

Eco-Explorers Field Trip Programs: contact Mary Rivera, 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 to the Department of Education’s Fifth Grade 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, 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 coast-wide, including one on the 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.

WADE (Wetland Activities for Delaware Educators): contact Gary Kreamer, x114, or 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. Customized on-site workshops on activities, projects and resources for infusing schoolyard wetlands into the curriculum are also available to teachers on a by-request basis.

(Continued)
Junior Duck Stamp (JDS) Art Design Competition: contact Trina Cale-Rosario, 104, 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, 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 Watersheds 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 borrowing six different loan kits for monitoring wetlands, including ones on: water quality, macroinvertebrates, reptiles and amphibians, wildlife watching, wildlife tracking and invasives/native plants. Newly-produced (in 2009) Guidebooks for landowners interested in undertaking wetland restoration projects on their property are also available upon request.

Certified Citizen Naturalist (CCN) volunteer program: contact Trina Cale-Rosario, 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, 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 educational program and material details.
Delaware Center for Horticulture

Sarah Deacle, Asst. Dir. of Programs
1810 N. Dupont Street
Wilmington, DE  19806
(302) 658-6262 x117, sbdeacle@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.

Programs Offered
Arbor Day programs offered in partnership with Wilmington Parks Department for Wilmington Schools. Tree-related curricula provided to schools participating in Arbor Day programs.
Garden tours of our display gardens and workshops available in the garden or offsite.
School vegetable garden assistance through Healthy Foods for Healthy Kids, Inc.

Delaware Department of Natural Resources
and Environmental Control
Division of Water Resources

Katherine E. Bunting-Howarth, J.D., Ph.D., Director
89 Kings Highway
Dover, DE  19901
(302) 739-9949, Katherine.howarth@state.de.us
Website: www.dnrec.state.de.us

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

The Division of Water Resources monitors, manages and protects Delaware’s ground and surface waters, tidal wetland and underwater lands. The Division is a link to the Delaware Estuary Program and the Delaware River Basin Commission, and provides centralized computer and geographic information system services. The division also provides public education and outreach programs, and coordinates citizen volunteer monitoring programs.

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.

Programs Offered
Technical staff available for classroom presentations on any of the above topics.
Delaware Department of Transportation (DELDOT)
Stormwater Quality Program

Randy Cole, Environmental Program Manager
800 Bay Road
Dover, DE 19903
(302)760-2194, Randy.Cole@state.de.us
Website: www.deldot.gov/stormwater

Organization Description
DeDOT’s Stormwater Quality Program implements programs to engage the public in stormwater pollution prevention that include public events and contests, research, surveys, targeted mailings, a stormwater website and litter control programs.

Materials Available
Available through website: Kid’s activity booklet, bookmark, nonpoint source pollution educational documents and materials sources, nonpoint source pollution programs and event sources, and various brochures.

Delaware Forest Service (DFS)

Ashley Warde, Trainer/Educator
2320 S. Dupont Highway
Dover, DE 19901
(302) 698-4551, 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 complement the K-5 FOSS science kits.

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

Delaware Museum of Natural History

Paula Holloway, Director of Education and Public Programming
4840 Kennett Pike, P.O. Box 3937
Wilmington, DE 19807
(302) 658-9111, pholloway@delmnh.org
Website: www.delmnh.org

Mission
To excite and inform people about the natural world through exploration and discovery. 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.

Programs Offered
Teacher In-Services
Guided tours ($5/child) through the galleries on a variety of topics.
To schedule a tour or outreach, please call the Education Programs Facilitator at 302-658-9111, ext. 305. For more information about tour content, please call the Tour and Outreach Coordinator at ext. 322. Note: Self-guided tours are no longer available.
Delaware National Estuarine Research Reserve

Jennifer Holmes, Estuarine Educator  
Kimberly Cole, Manager  
818 Kitts Hummock Road  
Dover, DE 19901  
(302) 739-3436, Jennifer.Holmes@state.de.us, Kimberly.Cole@state.de.us  
Website: http://www.swc.dnrec.delaware.gov/coastal/dnerr/Pages/DelawareNationalEstuarineResearchReserve.aspx

Mission
The Delaware National Estuarine Research Reserve (DNERR) is one of 27 National Estuarine Research Reserves across the country with a goal to establish, protect, and manage natural estuarine habitats for research, education, and coastal stewardship. It was established in 1993, and is a cooperative program between the State of Delaware and the National Oceanic and Atmospheric Administration.

The DNERR has two main components, the Blackbird Creek Reserve in Townsend, Delaware, and the St. Jones Reserve in Dover, Del. These sites include both brackish and freshwater estuaries, and represent the diverse estuarine ecosystems found throughout the Mid-Atlantic region.

Our mission at the DNERR is to preserve and manage natural resources through coastal stewardship within the Reserve as a place for research, and for providing education and outreach programs that promote better understanding of Delaware’s estuarine and coastal areas, and to promote informed coastal decision-making.

Materials Available
The Delaware National Estuarine Research Reserve offers various materials and teacher professional development including Project WET (water education for teachers) and Estuaries 101.

Programs Offered
The Delaware National Estuarine Research Reserve offers site based and outreach environmental educational programs for grades K-12. On-site programs are offered at the St. Jones Reserve and the Blackbird Creek Reserve.

The Reserve Curriculum provides students with an opportunity to understand various ecosystem functions through the exploration of an estuary. It also provides them with the tools to make difficult decisions about the future of these valuable resources. Although our K-12 programs target topics such as watersheds, wetlands, and estuaries, they can be tailored to meet the needs of any grade level. These programs can include both pre- and post-activities as well as an on-site visit to the Reserve.

Onsite Programs:
• Beach Ecology  
• Salt to Fresh Boat Trip  
• Horseshoe Crabs are for the Birds  
• How Much is Too Much?  
• Muckless Marsh Walk  
• St Jones Estuary - Past to Present  
• Geocaching Around the Estuary  
• Plant Pandemonium  
• Watersheds  
• Water Pollution and Water Quality
Delaware Nature Society (DNS)

P.O. Box 700
3511 Barley Mill Road
Hockessin, DE  19707
(302) 239-2334, dnsinfo@delawarenaturesociety.org
Website: www.delawarenaturesociety.org

Organization Description
The Delaware Nature Society (DNS), a nonprofit 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.

DNS maintains three main program and experiential sites: Ashland Nature Center in Hockessin, DE; Coverdale Farm in Greenville, DE; and Abbott’s Mill Nature Center in Milford, DE. In addition, DNS has been chosen to operate the DuPont Environmental Education Center at the Russell W. Peterson Urban Wildlife Refuge on the Wilmington Riverfront, and offers programs at Cooch-Dayett Mills in Newark.

DNS owns or manages more than 1,000 acres of wildlife habitat and education preserves, including a farm education program at the 352-acre Coverdale Farm. Abbott’s Mill Nature Center includes a preserved, historic, water-powered gristmill. DNS is the Delaware affiliate of the National Wildlife Federation (NWF), offering input on national issues that concern citizens in our region. Streams Adoption Program is also available for schools. Please call for fees and to find out more about additional materials. Scholarships are available.

Please see the individual listings for Ashland Nature Center, Abbott’s Mill Nature Center, and DuPont Environmental Education Center elsewhere in this guide for information about materials and programs. Information about all DNS sites can also be viewed on the web at www.delawarenaturesociety.org.

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, 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 had joined as equal partners in a river basin planning, development, and regulatory agency. The commission manages the water resources of the Delaware River Basin, a 13,539-square-mile area drained by the Delaware River, which includes portions of Delaware, New Jersey, New York, and Pennsylvania. The main stem Delaware, the longest un-dammed river east of the Mississippi, serves as an interstate boundary stretching 330 miles from Hancock, N.Y., to the mouth of the Delaware Bay where it meets the Atlantic Ocean. DRBC programs include pollution control, water supply and conservation, watershed planning, drought management, flood loss reduction, regulatory review (permitting), and education/outreach. The commission consists of the governors of the four basin states (DE, NJ, NY, and PA) and the Division Engineer, North Atlantic Division, U.S. Army Corps of Engineers, who serves as the federal member.

(Continued)
(DRBC Continued)

Materials Available
Ed. Web – This special section of the DRBC web site 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.
Flyers on a variety of interesting topics related to the watershed (baseball rubbing mud, etc...)
Maps
Bookmarks (horseshoe crab, bald eagle, and American shad)
Annual (and other) reports
Customized packets

Programs Offered
No formal programs are offered, but every effort is made to fill requests for speakers.

Estuary
Fast-Fact:

Estuaries are living nurseries with more wildlife births than any other natural areas in the world due to a wide range of habitats for many different plants and animals.

Delaware River Steamboat Floating Classroom

Bart Hoebel, Professor
207 Harley Avenue
Princeton, NJ 08540
(609) 921-6612, 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
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 with a $695 min. Longer and shorter trips are available.
Delaware Sea Grant College Program

Kimberly Doucette, Marine Public Education Office
222 S. Chapel St, Room 103
Newark, DE 19716
302) 831-8083, MarineCom@udel.edu
Website: http://www.deseagrant.org

Organization Description
Since the University of Delaware was designated the nation’s ninth Sea Grant College in 1976, the Delaware Sea Grant College Program’s goal has been to promote the wise use, conservation, and management of marine and coastal resources through high-quality research, education, and outreach activities that benefit the public and the environment.

Materials Available
At Sea: The free electronic newsletter of UD’s College of Earth, Ocean, and Environment and Delaware Sea Grant highlights the latest news, events, and activities, along with links to a variety of educational resources about the ocean and coast. Free. Visit http://www.deseagrant.org/atsea to view or subscribe.

University of Delaware Sea Grant Reporter: Annual report of the Delaware Sea Grant College Program, which highlights the latest research and work being done by the program. Free. Visit http://www.deseagrant.org/publications/reporter or call 302-831-8083. A publications catalog is available online at http://www.deseagrant.org/publications/pubcatalog.html. Free or low-cost resources are available for K-12 teachers seeking marine science information and curriculum materials. For more information, visit http://www.ceoe.udel.edu/getinvolved/k12 or call 302-831-8083.

Horseshoe Crab or Dogfish Shark Model: Full-color, three-dimensional models that can be cut out and assembled with tape in approximately 15 minutes. Suitable for 4th graders and up. Copies are free to Delaware teachers for classroom use, and requests should be submitted on school letterhead. Nominal fees may apply for out of state requests and discounts are given on bulk orders.

Horseshoe Crab: A Creature That Crawled Out of the Past Bulletin: Full-color, six-page educational bulletin that reviews the biology, medical uses, and population trends of the unique marine animals. Copies are free to Delaware teachers for classroom use, and requests should be submitted on school letterhead. Nominal fees may apply for out of state requests and discounts are given on bulk orders.

State Science Standard Teacher Guides: Provide teachers with detailed information on how select Delaware Sea Grant publications meet state science education standards in Delaware, Maryland, New Jersey, and Pennsylvania. Guides include the specific state standards that are covered by each publication, and highlight how the publication fulfills each standard. Guides are currently available for The Horseshoe Crab: A Creature That Crawled Out of the Past, and the Horseshoe Crab and Dogfish Shark models. Free download at http://www.deseagrant.org/education/curriculumresources.html.

Educational bookmarks: Feature beautiful, full color images from Delaware on the front and helpful information, including names, ranges, and interesting facts, on the back. Choose between red knot, horseshoe crab, summer flounder, surfboard (rip currents), great blue heron, or blue crab. Free.

The Horseshoe Crab: A full-color pocket guide that illustrates several interesting facts about this remarkable creature. Free.

10 Things You Can Do to Help Our Ocean: A full-color pocket guide that gives tips on ocean preservation and awareness. Free.

Programs Offered
Coast Day: This annual event is designed to showcase University of Delaware’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 and parking is free. For more information, http://www.decoastday.org.

Tours: Free tours of the UD College of Earth, Ocean, and Environment’s Hugh R. Sharp Campus in Lewes introduce visitors to marine research being conducted at the college. Tours are available year-round, are flexible, and may be arranged to meet each group’s special needs or interests. The program typically includes a 15-minute introductory video highlighting the work of many of the college’s faculty, followed by a one-hour walking tour of the college’s facilities. For more information, visit http://www.ceoe.udel.edu/getinvolved/tours-lewes.shtml or call 302-645-4346.

Lectures and Workshops: A wide variety of lectures, including the Wilmington Lunch and Lecture Series and Ocean Currents Lecture Series, are available throughout the year. For the latest schedule, or more information, visit http://www.ceoe.udel.edu/getinvolved/lectures-workshops.shtml.
Delaware State Parks

Ray Bivens, Chief of Programming
89 Kings Highway
Dover, DE 19901
(302) 739-9220, 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
Outdoor Concert Series
Summer Day Camps

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

Bellevue S.P.                        Dorothy Sheehan            (302) 793-3046
Brandywine Creek S.P.                Claire Mickletz                           (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.                   Laura Lee                                    (302) 834-7941
Killens Pond S.P.                    Breanne Preisen                        (302) 284-4299
Lums Pond S.P.                       Angel Burns                                (302) 836-1724
Trap Pond S.P.                       William Koth                              (302) 875-5163
White Clay Creek S.P.                Angel Burns                                (302) 368-6560
Wilmington State Parks               Barbara Woodford                    (302) 577-7020

Estuary
Fast-Fact:

Estuaries are lined with vital wetlands that act as sieves. They filter rainwater and melting snow from the land, absorbing pollutants from the water before it drains to the rivers and bays.
Delaware Valley Earth Force (DVEF)

Evelyn Christian, Program Director
100 Greenwood Avenue
Wyncote, PA 19095
(215) 884-9888, evelyn.christian@verizon.net
Website: www.earthforce.org/delval

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 at sites in southeastern Pennsylvania.

Materials Available
Teacher/leader manuals with lesson plans, covering basic project areas as well as Waste Management, Energy and Watersheds focus areas, student materials, student skill building tip cards, access to our network of professionals and experts in the environmental field, opportunities for recognition, classroom 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
Website: www.dvrpc.org

Organization Description
Created in 1965, the Delaware Valley Regional Planning Commission (DVRPC) is an interstate, inter-county and inter-city agency providing 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. 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.
DuPont Environmental Education Center – Delaware Nature Society (DNS)

John Harrod, Manager
1400 Delmarva Lane
Wilmington, DE 19801
(302) 656-1490, john@delawarenaturesociety.org
Website: www.delawarenaturesociety.org

Mission
Delaware Nature Society (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, Aquatics, Plants, Ecology, Earth Science, History and Art) including field trips, overnights, outreaches, farm programs, science enrichment summer programs, teacher graduate courses and district-wide contract programs. DNS maintains three main program and experiential sites: Ashland Nature Center in Hockessin, Coverdale Farm in Greenville and Abbott’s Mill Nature Center (with its preserved, working mill) in Milford. In addition, DNS operates the DuPont Environmental Education Center at the Russell W. Peterson Urban Wildlife Refuge on the Wilmington Riverfront, and offers programs at Cooch-Dayett Mills in Newark. DNS owns or manages more than 1000 acres of wildlife habitat and education preserves. DNS is the Delaware affiliate of the National Wildlife Federation (NWF), offering input on national issues that concern citizens in our region. Streams Adoption Program is also available for schools. Please call for fees and to find out more about additional materials. Scholarships are available.

Site Description
The DuPont Environmental Education Center is situated on a 212 acre fresh water marsh on the Wilmington Riverfront, which features indoor and outdoor exhibits on water related topics and a boardwalk that extends into the marsh.

Materials Available
DVD or VHS video: “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
Red Knot: A Shorebirds Incredible Journey
DNS Newsletter Nature’s Voice
DNS seasonal program brochures for School programs, Group programs and Members programs

Programs offered at the DuPont Environmental Education Center, Wilmington
Student Aquatic Programs
Land and Water Grades 2-5 2 Hours $6 / Student
Look at the land from the perspective of an osprey, raccoon, and snapping turtle. In the marsh, find evidence of water interacting with the land. Investigate how humans affect soil erosion and deposition.

Ashland Nature Center and Abbott’s Mill Nature Center have separate listings in this guide. Information about all DNS sites can be viewed on the web at www.delawarenaturesociety.org.
The DuPont Nature Center at the Mispillion Harbor Reserve

Dawn Webb
2992 Lighthouse Road
Milford, DE 19963
(302)422-1329, Dawn.Webb@state.de.us
Website: www.dupontnaturecenter.org

Organization Description
The DuPont Nature Center at the Mispillion Harbor Reserve is located on a 1.7-acre property at the mouth of the Mispillion River on the Delaware Bay. The Mispillion Harbor along the Delaware Bay represents one of the most important horseshoe crab spawning beaches and shorebird feeding areas in the world. Each year, thousands of horseshoe crabs mate and lay millions of eggs on beaches visible from the DuPont Nature Center’s observation deck. The eggs are a critical food source for migratory shorebirds, including the remarkable Red Knot, which stops at the Delaware Bay each spring on its 9,000-mile flight from Tierra del Fuego (South America’s southernmost tip) to its summer nesting grounds in the Arctic.

Mission
To serve as a science-based education and interpretive facility for schools, families, and other organized groups; to connect people with nature and instill an appreciation for the ecological significance of the region.

Materials Available
(all programs are free)
Workshops and loan kits for hands-on learning about many of the inhabitants of the Delaware Bay; horseshoe crabs, shorebirds, fish, whelk, blue crabs, diamondback terrapins, oysters, quahog, and fiddler crabs.

Programs Offered
The Facility is a self-guided visitors’ center but does offer field trip opportunities for schools and organizations. School groups are encouraged to book early and visit in the months of May and June.
Summer Day Camps visit in the months of July and August.
After touring the Center and learning about the Delaware Bay, groups travel two miles south to Slaughter Beach where they can eat lunch under the pavilion and participate in a shoreline activity titled “Living on the Edge.”
Seasonal programming is offered throughout the year; visit www.dupontnaturecenter.org for more information or contact Dawn Webb at 302-422-1329.

East Falls Tree Tenders

Cynthia Kishinchand, Coordinator
3114 W. Coulter Street
Philadelphia, PA 19129-1002
(215) 849-2474, crk3114@msn.com
Website: www.eastfallscommunity.org

Organization Description
Community volunteer organization.

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

Programs Offered
Planting of street trees and sponsorship of programs for students at local elementary schools.
EcoExpress
(A program of GreenTreks Network, Inc.)

Brie Knight
1420 Walnut Street, Suite 1304
Philadelphia, PA 19102
215-545-5880, bknight@greentreks.org
Website: http://www.ecoexpress.org

Organization Description:
EcoExpress is an online resource center that brings engaging video stories about the local environment to classrooms—and helps teachers put them to use. Loaded with short, age appropriate stories, this ever-expanding collection of programs uses the power of visual storytelling to help educators meet the challenge of engaging students and preparing them for PSSA tests.

Materials Available:
Streaming educational environmental documentaries
Interactive classroom activities (i.e. Solve It!)
Information about environmental concerns in local communities (currently focused on local communities in Pennsylvania)
Teacher’s Guides for integrating the videos
Customizable video and curriculum playlists for registered teachers

Ecological Research & Development Group, Inc. (ERDG)

Glenn Gauvry, President
190 Main Street/ Little Creek
Dover, DE  19901
(302) 236-5383, ERDG@horseshoecrab.org
Website: www.horseshoecrab.org

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

Materials Available
Educational brochures on horseshoe crabs, no charge
Educational posters on the life cycle of the horseshoe crab for sale via the web page "Company Store"
Life-size anatomical horseshoe crab model for sale via the web page “Company Store”

Programs Offered
In-classroom presentation, “Horseshoe Crab Conservation and the Arts” (fee based)
International annual student language and visual arts competition, "Horseshoe Crabs in the Arts" (no charge)
International annual student traveling art exhibition (no charge)
Backyard Stewardship™: Coastal Communities Define Their Shared Habitat as an ERDG Horseshoe Crab Sanctuary (no charge)
Educational Information and Resource Center (EIRC)

Erik Mollenhauer  
606 Delsea Drive  
Sewell, NJ 08080  
(856) 582-7000, erikm@eirc.org  
Website: 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.

Estuary Fast-Fact:

A watershed is an area of land with streams and rivers or other water bodies that drain the land. Rain water or melting snow flowing over the land surface is called runoff. The waterways receive the runoff, along with pollutants washed from the land.
Environmental Youth Education Services, Inc. (EYES)

Kevin Kopp, President
1269 Harrow Crescent
Yardley, PA 19067
(215) 321-3930, kkopp.eyes@comcast.net
Website: www.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.

Auditorium Program Offered
The Water All Around You! - $350 per show

Music in a Natural Key
Sing for the Earth!
Grades K – 6 (200 – 300 students) $300.00 per show
This program is a good time sing-a-long. It can be done with one class or the whole school. It can also be part of a scout program or family night. Topics covered can include: animals, plants, recycling, water and our Earth.
Kevin Sings about the Earth and It’s Plants and Animals
Grades Pre K- K (50 – 75 students) $175.00 per show
This sing-a-long program is designed for Pre-K and Kindergarten children. It looks at the Earth and its inhabitants, including humans. These interactive songs will have the children laughing and singing while they learn.
Raise Your Voice for the Earth! (A six-session, small group workshop for children)
In this program participants use songs, activities, writing and the arts while learning to care for the environment and each other. The participants will learn and record several environmental songs. At the end of the program each participant will receive a copy of their songs on CD/tape, a booklet of their songs and a journal they create. Program topics include: Water, Air, Population, Solid Waste, and Energy. Pricing upon request.

Interactive Field Trips—2 hours each, $125 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, Hamilton, NJ
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

Teacher Training Workshops 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
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) 853-5120
Website: www.co.gloucester.nj.us/Government/Departments/ParksnRec/redbank.cfm

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.

Organization Description
The James & Ann Whitall House is an 18th century historic house, located on the Delaware River. In addition to the home, there is a kitchen/herb garden located near the kitchen door with herbs grown and cared for by a group of talented volunteers. The 44 plus acres park provides a passive recreational area, riverside walking paths, playground equipment and picnic pavilions. This is the historic site of Fort Mercer, one of the twin military installations that guarded the Philadelphia harbor and all communities north of Philadelphia along the Delaware River during the American Revolution. The park is located in National Park along the Delaware River.

Programs Offered
The house and site, 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
Fort Mifflin & Hog Island Roads
Philadelphia, PA 19153
(215) 685-4167, leeannderson@fortmifflin.us
Website: www.fortmifflin.us

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.

Programs Offered
Fort Mifflin offers a series of unique education programs for the enrichment of students in Grades K through 12. Our programs are designed to meet State and National curriculum guidelines. A Teachers Guide is provided in advance of your trip to the Fort.

Your school group gets to choose from four award winning programs such as Revolutionary and Civil War Soldier Life, Civil War Medicine, or the History of the American Flag. Then receive a tour of the oldest continually garrisoned Fort in the country with over 14 historic buildings to investigate. See the Blacksmith Shop, Soldiers Barracks and the Dungeons (Casemates). Your school group can also receive a cannon demonstration (additional $30 fee) with the usual weapons demo when you book your group for an education program/tour.
Freehold Soil Conservation District
Karen Rowe, Education Coordinator
4000 Kozloski Road—PO Box 5033
Freehold, NJ 07728-5033
(732) 683-8500, 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 people at a time. Our Enviroscape program vividly depicts the effects of non-point source pollution and the inflatable Soil Tunnel is used to convey the importance of soil as a natural resource. We sponsor an annual poster contest for students, a photo contest for adults, and provide three $2,000 college scholarships to area students majoring in a conservation related field. We have 16 Trout in the Classroom tanks, provided by the District, in area schools and environmental centers to educate the public about trout habitat issues. Plants for Pollinators in the Classroom is a new program that will help students discover the importance of native pollinators. The Freehold District is a member of the New Jersey Conservation Partnership and we participate in the New Jersey Envirothon competition and the NJ Flower & Patio Show. No charge for programs.

Friends of the Manayunk Canal (FMC)
Nicole Galdieri, President
450 Shurs Lane
Philadelphia, PA 19128
(215) 508-4343, fmc@manayunkcanal.org
Website: www.manayunkcanal.org

Organization Description
Friends of the Manayunk Canal (FMC) is a 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. FMC has annual events such as a historical/environmental tour, a 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, FriendsofPoquessing@usa.net
Website: www.FriendsofPoquessing.org

Organization Description
The Friends of Poquessing Watershed of Philadelphia and Bucks County is an all volunteer non-profit environmental group which is dedicated to the conservation and beautification of the Poquessing Watershed, a long neglected 21 square mile area which straddles Philadelphia and Bucks County. It is fed by several tributaries such as Bloody Run, Elwoods Run, Wilsons Run, Waltons Run, Black Lake Run, and Byberry Creek before it empties into the Delaware River by the Glen Foerd mansion at Grant Avenue.

Programs Available
Please see the Upcoming Events page for current information on our meetings and other activities such as:
Cleanups
Periodic walks and tours at selected locations
Attendance at local community meetings
Correspondence with local news media
Educational presentations to schools, community, fraternal and social organizations
Publication of "The Poquessing Pathfinder"
Water quality testing
Town Watch
Charles T. Bejuki Memorial Scholarship Fund

Friends of Tacony Creek Park

Bill Kranz, Public Relations
Philadelphia, PA
(215) 745-8903, hkranz2@snip.net

Mission
To restore pride in Tacony Creek Park – making it a cleaner, safer park for public recreational use; to initiate volunteer programs to help reduce dumping, vandalism, litter, illegal drug and alcohol use, physical assault, illegal swimming and unauthorized motor vehicles in the park; to educate children on the value of our neighborhood parks and teach them respect for nature and public property; to build a large membership that will be a strong active political voice for the park and surrounding community.
Friends of the Wissahickon

Maura McCarthy, Executive Director
8708 Germantown Avenue
Philadelphia, PA 19118
(215) 247-0417, office@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
Map of the Wissahickon Valley ($6.50)
Archive of historical documents and photos ($15 charge per use for non-Chestnut Hill Historical Society members)
Checklist of the Birds of the Wissahickon (free)
A List of Invasive Exotic Plants and Indigenous Plants in the Wissahickon Valley (free)
A Homeowner’s Guide to Protecting the Wissahickon Creek

Programs Offered
The Friends offer lectures and programs about the Wissahickon and other environmental topics as well as guided walks in the park free to the public throughout the year. Volunteer programs include becoming a Trail Ambassador, joining the Structures Crew, and working on trail maintenance.

Gloucester County Nature Club

Karen Kravchuck
25 Barlow Ave.
Sewell, NJ 08080
(856)468-6537
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)
Green Valleys Association (GVA)

Dawn White, Director of Environmental Education
1368 Prizer Road
Pottstown, PA  19465
(610) 469-8646, dwhite@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. Located at our headquarters of Welkinweir, a 197-acre estate characterized by forest, fields, ponds, streams and wetlands, GVA serves the local community through our mission of "protecting and preserving the quantity and quality of water resources in northern Chester County through advocacy and education".

Materials available
Environmental Education resources for lessons (free), Water conservation resources and training (free)

Programs Offered
PA Environment and Ecology Standards Programs -classroom outreach and on-site at Welkinweir (fees)
Teacher Training (fees)
Adult and Family Programs (fees)
Scout Workshops (fees)
Summer camp (fees)
Volunteer Opportunities in advocacy, education, clerical, and marketing

Haskin Shellfish Lab – Rutgers University

6959 Miller Avenue
Port Norris, NJ  08349-9736
(856) 785-0074 x4322
Website: www.hsrl.rutgers.edu/

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. 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 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 support on-site investigations and periodic surveys.

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
1700 Hawk Mountain Road
Kempton, PA 19529
(610) 756-6961, info@hawkmountain.org
Website: www.hawkmountain.org

Mission
To protect birds of prey worldwide by being the leader in raptor conservation science and education and by maintaining Hawk Mountain Sanctuary as a model education, research and observation facility.

Programs Offered
Hawk Mountain Sanctuary offers a Visitor Center, Native Plant Garden, eight miles of ridge and valley trails and half a dozen scenic overlooks that are open to the public year round. The Sanctuary is operated as a nature-tourism site where membership or modest trail fees support local-to-international conservation programs. In 2009 Hawk Mountain Sanctuary celebrates its 75th anniversary as the world’s first refuge for birds of prey. Visiting groups who call in advance may receive a discount on trail admission (number of discounts limited per day; must call far in advance). Groups are typically self-guided. Spring and autumn weekend programs are offered at no extra cost to the trail fee. For more information, please read the hiking and ‘visiting us’ section of the website, or call 610-756-6961. Internships for those interested in a career in conservation are available on a highly competitive basis. Visit the website to download an application and read more.

Heritage Conservancy
85 Old Dublin Pike
Doylestown, PA 18901
215-345-7020
Website: www.heritageconservancy.org

Organization Description
Heritage Conservancy is a non-profit conservation organization that specializes in open space preservation, planning for sustainable communities, natural resource protection, property stewardship, historic preservation, wildlife habitat restoration and biodiversity.

Materials Available
A comprehensive set of teaching materials is available to support wetlands education in the classroom. These materials consist of 200+ pages of color handouts in a notebook and an accompanying PowerPoint presentation on a CD that features Quakertown Swamp as an example of an important wetland area and vital ecosystem located in Bucks County, Pennsylvania. Topics covered include: Wetland Basics, Plant and Animal Life, Wetland Functions, Great Blue Heron, Wetland Benefits, Purple Loosestrife, Water Resources, White-Tailed Deer, Geology, Regulatory Protection for Wetlands, History, Prospects for Wetlands, Wetland Plant Communities, References, and Vernal Pools.

Educators can use these materials to integrate Environment & Ecology, Geography and Earth Science lessons while students learn about Quakertown Swamp in accordance with academic standards. The various topics can be taught as an entire unit of study or individually depending upon your curriculum needs, the grade of the students, and available time. For ease of use, all of the photographs included in the handouts are provided in the PowerPoint presentation and text is provided with each PowerPoint slide so that the entire presentation can be printed for reference and correlated to the handouts. The cost of these comprehensive teaching materials is $35 plus shipping and handling.

(Continued)
Heritage Conservancy (Continued)

Publications (Available for download from our website)
A Self-Guided Tour of Quakertown Swamp
Growing with Green Infrastructure
Implementing a Municipal Open Space Program: A Guide for Pennsylvania's Municipalities
Landowner's Options for Protecting Family Lands
Conservation Easements-Questions and Answers
Resource Protection Glossary of Terms
Lasting Landscapes Handbook
Musconetcong Wetland Wonders Poster
Opportunity Knocks: Open Space as a Community Investment by Michael Frank
Public Finance for Open Space: A Guide for Pennsylvania’s Municipalities
Quakertown Swamp and the Great Blue Heron
Regional Open Space Priorities Report
Using Conservation Easements to Preserve Open Space - A Guide for Pennsylvania’s Municipalities

Programs Offered
Including bats and backyard wildlife habitat, Heritage Conservancy offers various in-school and on-site opportunities for learning. Educational-based field trips are available by appointment. Visit HeritageConservancy.org to learn more about us or call (215) 345-7020 to discuss your individual needs.

Historic Bartram’s Garden

54th Street & Lindbergh Blvd.
Philadelphia, PA 19143
(215) 729-5281 x104
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.

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.


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.
Independence Seaport Museum

Bill Ward, Museum Educator
Penn’s Landing
211 S. Columbus Blvd. & Walnut St.
Philadelphia, PA 19106-3199
(215) 413-8649, bward@phillyseaport.org
Website: www.phillyseaport.org

Mission
The Seaport Museum teaches about the history of the City of Philadelphia, Ships past and present, and the Maritime world, featuring such lessons as: Pirates, whales and whalers, immigration, and explorers. Each trip includes a visit to our two historic ships, the Olympia and the Becuna.

Materials Available
Teacher Packets are available on our website.

Programs Offered
Adults, students grades 9-12 $8.00 with lesson $8.50
Students grades k-8 $5.50 with lesson $6.50

Iron Hill Museum &
Delaware Academy of Science

Kathryne Larrivee, Executive Director
1355 Old Baltimore Pike
Newark, DE 19702
(302)368-5703, director@ironhill-museum.org
Website: www.ironhill-museum.org

Organization Description
The Delaware Academy of Science, the Iron Hill Museum's parent organization, is chartered: To promote scientific education and research; To stimulate and facilitate the dissemination of scientific knowledge; To assist in the development and utilization of the materials and resources of the State of Delaware; To stimulate close relationships among those concerned with the promotion of scientific work; To render public service in scientific matters; and To publicly recognize those persons in the State who have made outstanding scientific contributions.

The Iron Hill Museum can help you teach children about the area of Iron Hill and its diverse offerings. From the geology of jasper to the culture of the Lenni Lenape Indians, the Iron Hill Museum can offer a wide perspective on our local area and history. Our Programs focus on earth science, archaeology, Native American studies, natural history, and paleontology. These programs address State of Delaware Curriculum Framework standards and benchmarks. Since 1968, the Iron Hill Museum has been the primary resource for the study of human/natural history of the Iron Hill Area, and is currently housed in what was originally a one-room schoolhouse. For over 40 years the Delaware Academy of Science has owned and operated this schoolhouse as a natural history museum. Its programs, collections and library interpret the relationships between the people and the land. Our vision is to be one of the State's foremost history and science museums, telling the story of the people, places and events of the Iron Hill region and the Pencader Heritage Area.

Materials and Programs available
Please visit our website for the most current program offerings.
Jacques Cousteau National Estuarine Research Reserve (JC NERR)
Jacques Cousteau Coastal Education Center
Lisa Auermuller, Watershed Coordinator
Melanie Reding, Education Coordinator
130 Great Bay Boulevard
Tuckerton, NJ 08087
(609) 812-0649; auermull@marine.rutgers.edu, reding@marine.rutgers.edu
Website: www.jcnerr.org

Organization Description
The JC NERR was established in 1997 to “improve management of New Jersey coastal environments through science, education and stewardship.” This mission drives reserve goals, objectives and strategies aimed at addressing the key coastal management issues in the Mullica River-Great Bay watershed and throughout the New Jersey coastal zone. Lands within the JC NERR are entirely in public ownership and managed by a variety of state and federal agencies. As a result, a significant level of resource protection is in place. For this reason, JC NERR programs have focused on research, education and coastal training, and support services for stewardship programs.

Materials Available
Local recreational guides, brochures, trail maps and other associated environmental information. No fee for informational materials.

Programs Offered
Life on the Edge Interpretive Center (located on the 2nd floor of the Tuckerton Seaport’s Yacht club) – This is a hand-on “tour” of the Mullica River, Great Bay watershed, no fee. Lunch ’n Learn – Through a partnership with the Tuckerton Seaport, the JC NERR has been hosting a successful series of “Lunch n’ Learn” programs. Once a month (in the fall winter and spring), a scheduled speaker talks about their research, a culturally significant topic, or a topic of historical importance, there is a $2.00 fee to attend. Outdoor recreational programs - The JC NERR will develop outdoor recreational programs such as hiking, kayaking, and birding. These provide the community with the hands-on experiences and a greater appreciation for sensitive habitats, fees vary by program. Additionally, a variety of recreational opportunities exist throughout the JC NERR at our land management sites. For more information visit: www.jcnerr.org/family&public/outdoor.htm

Kalmar Nyckel Foundation
1124 E. 7th Street
Wilmington, DE 19801
(302) 429-7447, education@kalmarnyckel.org
Website: www.kalmarnyckel.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 students of all ages throughout Delaware and the northeast region.

Materials Available
The Kalmar Nyckel Guidebook, a comprehensive reference for all teachers and visitors, is available online at our website: www.kalmarnyckel.org

Programs Offered
Sails and Shipyard Tours for “Students of All Ages”, Student Sails (k-12) on the Christina River in Wilmington and the Delaware Bay from Lewes, DE (language arts, social studies, math, and science standards), Shipyard Tours (language arts, social studies, math, and science standards) at our historic 7th Street Peninsula site in Wilmington (DE), Corporate Teambuilding and Decision-Making Sails, Scout and Camp Adventure Outings, College and Adult Sails
Kent Conservation District

Paula Kohout, Administrative Manager
800 Bay Road, Suite 2
Dover, DE 19901
(302) 741-2600 x3
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) 744-2495, Carl.Solberg@co.kent.de.us
Website: http://www.co.kent.de.us/

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 2009. Ongoing archaeological investigations of the freed slave community of “Hunn Town” may be available by appointment in 2009.

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, 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

Marine Mammal Stranding Center
3625 Brigantine Blvd., PO Box 773
Brigantine, NJ 08203
(609) 266-0538, 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.

Merrill Creek Reservoir
Jane Bullis, Naturalist
34 Merrill Creek Road
Washington, NJ 07882
(908) 454-3339, jbullis@merrillcreek.com
Website: www.merrillcreek.com

Organization Description
Merrill Creek Reservoir is a 650-acre reservoir surrounded by a 290-acre Environmental Preserve and 2,000 additional acres of
woods and fields. 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. Merrill Creek Reservoir provides a
tranquil setting of water and land that allows people to interact with the natural environment.

Programs Offered
All programs are free of charge—Merrill Creek Reservoir offers a wide variety of environmental education opportunities for all
age groups ranging from Pre-K through adults. The programs described on the website are hands-on, interdisciplinary activities
intended to provide educators with basic information to assist them in creating a productive, educational field trip.
Montgomery County Conservation District (MCCD)
Susan Harris, Watershed Specialist
143 Level Road
Collegeville, PA 19426
(610) 489-4506, sharris@montgomeryconservation.org
Website: www.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, Rain Barrel, Wildlife Kit, Tree Identification Kit

Programs Offered
MCCD provides technical support for schools, community groups, and municipalities looking to implement environmental projects. We are available to speak to groups about the wise use of our soil, water and related resources. We also coordinate the annual Montgomery County Envirothon for elementary, middle, and high school students.

Montgomery County Lands Trust
Dulcie Flaharty, Exec. Dir
John Lea, Director of Land Preservation
215-513-0100, info@mclt.org
Website: www.mclt.org

Mission:
Montgomery County Lands Trust works to preserve and connect the natural areas, farmland, and neighborhood green spaces which contribute to our quality of life, to a clean and abundant water supply, and to the health of our region’s economy.

Description: Montgomery County Lands Trust was established in 1993 at the same time that the county commissioners adopted the first Montgomery County Open Space Program. The group of county leaders who spearheaded the first $100 Million Open Space Preservation program felt strongly that a private, non-profit organization was needed to complement the public effort to address the increasing loss of green space and natural resource areas throughout Montgomery County. The Lands Trust was formed to not only advance the county program, but to address private aspects of land preservation and to provide leadership in structuring public/private partnerships requiring innovative solutions.

Since that time, the efforts of Montgomery County Lands Trust have been directed at preserving open space, fostering smart growth and providing education to county citizens. We maintain a unique position as advisor and counselor to community leaders and elected officials at the local, county, and state levels. We have grown from an organization staffed by two part-time employees to an energetic office fueled by six professionals.

During 2003, Montgomery County Lands Trust played a pivotal role in the passage of the $150 Million Montgomery County Green Fields/Green Towns Open Space Referendum. In 2006 the Lands Trust spearheaded Montgomery County Green Futures, an education initiative featuring events and workshops that provide local leaders with the open space tools they need to make informed decisions benefiting their communities.

(Continued)
Montgomery County Lands Trust (Continued)

Acting both as a clearing house for land preservation questions and as a resource for public and private land conservation, our organization continues to focus on preservation and education. The Lands Trust accepts the donation of and monitors conservation easements. Since our 1993 founding, we acquired easements on 2,644 acres and facilitated the protection of another 2,252 acres. Montgomery County Lands Trust offers workshops and develops resource materials to inform and motivate communities and individuals. Through education, advocacy, and land conservation projects, Montgomery County Lands Trust works with the citizens of Montgomery County to preserve and enhance the communities that make our county a unique and scenic place in which to live.

Materials Available
Land planning and Land Conservation informational material

Programs Offered
Conservation and planning educational programs.

Montgomery County Planning Commission

PO Box 311
Norristown, PA 19404
610-278-3740, amelusky@montcopa.org
Website: http://planning.montcopa.org/planning

Organization Description
The Montgomery County Planning Commission (MCPC) offers professional planning services and innovative solutions to community challenges in the County. MCPC fosters partnerships with its municipalities, businesses, and organizations and provides technical assistance and services on a wide range of planning areas. A major focus of MCPC is to promote orderly development in the County while preserving valuable amenities and natural resources.

Materials Available
The Montgomery County Planning Commission offers a variety of plans, maps, newsletters, and educational brochures. Topics include greenhouse gas reduction, water resources, sewage facilities, municipal waste management, watersheds, stormwater management, trails, and open space preservation. Many materials are available for free on our website.

Morris Arboretum of the University of Pennsylvania

100 Northwestern Avenue
Philadelphia, PA 19118
(215) 247-5777
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” 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:
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 resource 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, Delaware Bayshores Program Manager
2350 Route 47
Delmont, NJ 08314
(609) 861-4123
brent_burke@tnc.org
www.nature.org/newjersey

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. Themes include shorebird migration and marshes/wetlands. There is no charge for these presentations.
The Nature Conservancy in Pennsylvania

15 East Ridge Pike, Suite 500
Conshohocken, PA 19428
(610) 834-1323
Website: www.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 Conservation District

Richard Mickowski, Conservation Planner / Education Coordinator
2430 Old County Road
Newark, DE 19702
(302) 832-3100 x113, rick.mickowski@state.de.us
Website: www.newcastleconservationdistrict.org

Organization Description
A conservation district is a quasi-state agency authorized by state legislation and responsible under state law for conservation work within its boundaries. The Districts are under the oversight of the DNREC-Division of Soil and Water Conservation - District Operations and an elected and appointed Board of Supervisors. The District provides coordination of leadership and services to help landowners conserve and improve their natural resources in both urban and agricultural areas.

Materials Available
2009 "Dig It - The Secrets of Soil" materials for students and teachers
2010 materials will be available in early 2010 on the theme "Conservation Habits=Healthy Habitats"
2011 materials will coordinate with the United Nations designation as being the year of the forest and will focus on trees and forestry related concepts. Available in early 2011
Water Cycle Poster and Stewardship Week posters available each year
Other sample materials available upon request

Programs Offered
Enviroscapes Model presentations can be scheduled
Poster contest each fall on a conservation theme tied to educational materials listed above
Presentation about Delaware Envirothon - Delaware's premiere environmental education program and competition for high school students
New Jersey Academy for Aquatic Sciences

Sharon Morrell, Academic Programs Manager, smorrell@njaas.org, (856) 361-1025
Estelle Stroup, Outreach Programs Manager, ekerdock@njaas.org, (856) 361-1024
Jack Carr, Science Education Programs Manager, jcarr@njaas.org, (856)361-1017
1 Riverside Drive
Camden, NJ 08103
Website: www.njaas.org

Organization Description
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. 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 programs and Teacher Professional Development workshops, Jack Carr at 856-361-1017 for distance learning programs or Estelle Kerdock 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, 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)
New Jersey Audubon Society (NJAS)

Dale Rosselet, Vice President for Education
Department of Education at CMBO NJAS
Center for Research & Education
600 Route 47 North
Cape May Court House, NJ 08210
(609) 861-1608
dale.rosselet@njaudubon.org
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) $40 - A NJ-specific 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 (out-of-print, but available on request)

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

Susan Buffalino, Sanctuary Director
Rancocas Nature Center
794 Rancocas Road
Mount Holly, NJ 08060
(609) 261-9916
susan.buffalino@njaudubon.org
Website: www.njaudubon.org/centers/rancocas

New Jersey Coastal Heritage Trail Route

Jeanne Covert, Program Assistant
National Park Service
P.O. Box 568
389 Forescue Road
Newport, NJ 08345
(856) 447-0103, jeanne_covert@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 Conservation Foundation

Sandy Perry, Communications Manager
170 Longview Road
Far Hills, NJ 07931
(908)234-1225, sandy@njconservation.org
Website: www.njconservation.org

Organization Description
New Jersey Conservation Foundation is a private, non-profit organization whose mission is to preserve land and natural resources throughout New Jersey for the benefit of all. We protect strategic lands through acquisition and stewardship, promote strong land use policies, and forge partnerships to achieve conservation goals. Since 1960, we have preserved more than 120,000 acres, or 187 square miles.

Materials Available
“Songbird Connection,” a curriculum teaching an appreciation of songbirds in our ecosystems. No charge, but limited quantities are available.
On request, we may be able to supply maps, photos and information about wildlife and natural resources in areas where we have preserved land.

New Jersey Department of Environmental Protection
Division of Watershed Management,
Watershed Education and Outreach Program

Kyra Hoffman, Supervisor
P.O. Box 418
401 East State Street
Trenton, NJ 08625
(609) 633-1441, watershed@dep.state.nj.us
Website: www.nj.gov/dep/watershedmgt

Organization Description
To manage our valuable water resources, the Division of Watershed Management administers a variety of programs aimed at protecting and restoring water quality, controlling water pollution and ensuring adequate water supplies. As part of that mission, the Division provides a variety of programs and publications to raise awareness of watershed issues.

Materials Available
Clean Water “Raingers” educational booklets
What is a Watershed/What is Stormwater Brochure

Programs Offered
Project WET (Water Education for Teachers) teacher workshops (fee)
Harbor Watershed/Urban Fishing Program
New Jersey Watershed Ambassadors Program
New Jersey Department of Environmental Protection
Information Resource Center (IRC)

Mary Kearns-Kaplan, Manager
432 East State Street
PO Box 409
Trenton, NJ 08625-0409
(609) 984-2249, mary.kearns-kaplan@dep.state.nj.us
Website: 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 and Wildlife

Karen Leskie, Aquatic Education Program
360 N. New York Rd., PO Box 418
Port Republic, NJ 08241
(609) 748-4347, karen.leskie@dep.state.nj.us
Website: www.njfishandwildlife.com

Organization Description
The Division of Fish and 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 the state’s wildlife for the benefit of the people of New Jersey.

Materials Available
Marine Educators Resource Guide
Peregrine Project Curriculum (free from website)
Wildlife of New Jersey Coloring Book (free from website)

Programs Offered
Pequest Trout Hatchery & Natural Resource Education Center – Conservation Education Programs and Fishing Programs (fee)
Sedge Island Natural Resource Education Center (fee)
Know the Bear Facts
Trout in the Classroom
Project WILD and WILD Aquatic teacher workshops
WILD School Sites teacher workshop
Flying WILD teacher workshop
Native Fish and Art Writing Contest (grades 4-8)
Green Eggs & Sand Workshops (fee)
New Jersey Marine Science Consortium

22 Magruder Road
Fort Hancock, NJ 07732
(732) 872-1300 x 22
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), and Lesson “kits” are available to borrow.

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 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 08801-8536
Website to find the contact in your area: 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
Delmont, NJ 08314
(609) 861-2886, 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 available materials.
New Jersey Project Learning Tree

370 East Veterans Highway
Jackson, NJ 08527
(732) 833-9816, newjerseyplt@gmail.com
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, kdinsmore@newark.de.us
Website: www.cityofnewarkde.us/index.asp?nid=237

Description of Organization
Municipal government

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

Programs Offered
Call for current details.

Estuary Fast-Fact:

The Delaware River is fed by 216 streams and smaller rivers that drain 13,539 square miles of land, including parts of New York, Pennsylvania, New Jersey and Delaware. Millions of people live within this large watershed, all of whom have an impact upon water quality each and every day.
Old Pine Farm Natural Lands Trust

340 Pine Avenue
Deptford, NJ  08096
(856) 232-1109
Website: www.bigtimbercreek.org

Organization Description
32 acres of open space along Big Timber Creek with:
Forest
Meadow
Wetlands
and many species of wildlife

Materials Available
Trail Guides - No charge

Programs Offered
School visits—no charge

PA CleanWays

Shannon Reiter, President
105 W. 4th Street
Greensburg, PA  15601
(724) 836-4121, sreiter@pacleanways.org
Website: www.pacleanways.org

Materials Available (see website for details)
Open Your Eyes to Litter (OYEL) activity 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, available for loan.  Call PA CleanWays for details.
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 print materials list is extensive, and some of it is downloadable - Please visit our website to see a current listing of what we have to offer.

Programs Offered (See website for details and other upcoming programs)
Annual Southeast Pennsylvania Coast Day (September)
Dozens of fun, interactive display booths, treasure hunt, prizes, and entertainment. Dive in and bathe your brain with watershed knowledge! Great family day, suitable for ALL ages.

Annual Storm Drain Marking Program (Philadelphia, Spring)
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 storm drains. Volunteers also distribute educational flyers that explain the program to residents.

Delaware Estuary Watershed Workshops for Teachers (Summer)
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.

Annual Drawing Contests (Jan-Mar) in Philadelphia; 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 Enviroscape coastal model. ($50.00)

Other programs may be available—check website for current listings!
Peace Valley Nature Center

Gail Hill, Environmental Education Director
170 Chapman Road
Doylestown, PA  18901
(215) 345-7860, 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
  $6.00/student ($60 min.)
- Stream Study; Wetlands & Watersheds
  K-6
  $5.00/student ($50 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
angela.belli@email.stvincent.edu
Website: www.paee.net

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 Association of Conservation Districts, Inc.

Susan Marquart, Executive Director
Hannah Smith, Education Specialist
25 North Front Street
Harrisburg, PA  17101
(717)238-7223, PACD@PACD.org
Website: www.PACD.org

Organization Description
The Pennsylvania Association of Conservation Districts (PACD) works to enhance locally led efforts that support the wise use of the state’s natural resources. The PACD primarily serves as the collective voice for Pennsylvania’s 66 county conservation districts. The Association also works with private organizations, business and industry partners, and many federal and state agencies. Through a statewide network, the PACD leadership supports a multitude of locally led conservation efforts and stands ready to address future issues.

About Conservation Districts - Conservation districts implement a variety of programs, and provide assistance for a range of issues unique to their county, such as:
- Abandoned Mine Cleanup
- Agricultural Land Preservation
- Chesapeake Bay Program
- Dirt & Gravel Roads Program
- Environmental Education
- Erosion & Sediment Pollution Control
- Floodplain Management
- Forest Management
- Nutrient Management Program
- Stormwater Management
- Waterway Protection
- West Nile Virus Surveillance Program
- Wildlife Management

Each Conservation District is led by a Board of Directors made up of local people from all walks of life. These volunteers study county natural resource issues and make decisions which enhance and protect the local community. Visit the PACD website for information on programs in your area and ways to become involved in local conservation efforts.

Pennsylvania Bureau of State Parks –
Nolde Forest Environmental Education Center

Department of Conservation and Natural Resources
Bureau of State Parks
2910 New Holland Road
Reading, PA  19607
610-796-3699
Website: www.dcnr.state.pa.us/stateparks/parks/noldeforest

Organization Description
Nolde Forest Environmental Education Center is dedicated to educating children, teachers, and community about the environment; assisting them in developing 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, Field Learning Experiences, Community Programs, Educator Workshops
Environmental Forum for Middle – Sr. High, Urban Environmental Education
Pennsylvania Department of Environmental Protection (PA DEP)

Lynda Rebarchak, Community Relations Coordinator
2 East Main Street
Norristown, PA 19401
(484) 250-5820, 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 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

400 Market Street
P.O. Box 8555
Harrisburg, PA 17105-8555
(717) 783-2289
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, Environmental Program Manager
Water Planning Office, Pennsylvania Department of Environmental Protection
400 Market Street, 2nd Floor
Harrisburg, PA 17105-2063
(717) 772-4785, azemba@state.pa.us
Website: www.depweb.state.pa.us, click on "DEP Programs (A-Z)", choose: Water Planning Office

Mission
The Water Planning Office coordinates Pennsylvania’s responsibilities as a member of interstate river basin organizations and helps 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 Resources 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, 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 Streamside; 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)

Materials Available
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 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, 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
Mike Hobbs, Jr.
685 Mann Road
Horsham, PA  19044
(215) 646-3943, info@pennypackfarm.org
Website: www.pennypackfarm.org

Organization Description
Through educational programs and a community supported agriculture (CSA) demonstration farm, 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 on vegetable variety and nutrition - 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.
Perkiomen Watershed Conservancy (PWC)

Crystal Gilchrist, Executive Director
1 Skippack Pike
Schwenksville, PA 19473
(610)-287-9383, 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 details.

Philadelphia Department of Parks and Recreation (Environmental Education)

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, (215) 685-9285
Pennypack Environmental Center, 8600A Verree Road at Pennypack Creek, (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.
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

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

Joanne Dahme, General Manager, Public Affairs Division
Philadelphia Water Department
1101 Market Street, 5th Floor
Philadelphia, PA 19107-2994
(215) 685-6110, joanne.dahme@phila.gov
Website: www.fairmountwaterworks.org

Mission
The Philadelphia Water Department (PWD) supplies drinking water, sewage treatment, and stormwater management services to the City and several suburban communities. 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 make wise decisions about land and water use in the future.

Materials Available
(See list above for Philadelphia Water Department)

Programs Offered
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

2126 W. Moyamensing Avenue
Philadelphia, PA 19145
(215) 755-2400, 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

Pinelands Preservation Alliance

Mike Hunninghake, Director of Education of Communication
17 Pemberton Road
Southampton, NJ 08088
(609) 859-8860
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, Film, and Teacher’s Guide

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

Possum Patty

Pat “Possum Patty” Catucci
PO Box 112
Temple, PA 19560
610 741-8512, possumpatty@verizon.net
Website: http://possumpatty.com

“Possum Patty” is an environmental educator who offers programs to discover the wonders of nature with children of all ages. Visit the website for a list of nature play and nature exploration programs.
Prime Hook National Wildlife Refuge

William J. Jones, Outdoor Recreation Planner Visitor Services Manager
11978 Turckle Pond Road
Milton, DE 19968
(302) 684-8419, Bill_J_Jones@fws.gov
Website: www.primehook.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.

Estuary Fast-Fact:
The Delaware Estuary stretches from Trenton, New Jersey, and Morrisville, Pennsylvania, south to Cape May, New Jersey, and Cape Henlopen, Delaware, including all of the Delaware Bay and the tidal reaches of the Delaware River.

Rancocas Creek Association

Mt. Holly, NJ 08060
www.RancocasCreek.org
rancocas@gmail.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.
Red Clay Valley Association (RCVA)

Giselle Cosentino, Education Director
1760 Unionville-Wawaset Road
West Chester, PA 19382
610-793-1090, 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.

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-Poole, Director of Education
1950 Spring Mill Road
Gladwyne, PA 19035
(610) 527-5234, scarr@riverbendeec.org
Website: www.riverbendeec.org

Mission
To teach environmental principles to children in Southeastern Pennsylvania through a direct connection with nature, inspiring respect for our natural world and action as aware, responsible and caring citizens.

Programs Offered

<table>
<thead>
<tr>
<th>Program</th>
<th>Cost</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond and Stream</td>
<td>$ 6-10/student</td>
<td>Pre-K - 3</td>
</tr>
<tr>
<td>Watersheds</td>
<td>$ 6-10/student</td>
<td>3-8</td>
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</tbody>
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Students explore the pond and stream ecosystems searching for the insects, crustaceans, fish and amphibians that are adapted for life in the water. Students compare and contrast the physical and biological features of these two aquatic environments.

All waterways are connected; therefore the actions upstream impact those downstream. By conducting a stream study and exploring the concept of human impact on the watershed, students gain a richer understanding of this complex topic.

Additional programs are available, please visit our website, [www.riverbendeec.org](http://www.riverbendeec.org) or call 610-527-5234 x108 for more information.
Saddler’s Woods Conservation Association (SWCA)

Donna Moffett, Director of Education and Community Outreach
PO Box 189
Oaklyn, NJ 08107
(856) 869-7372, donna@saddlerswoods.org
Website: www.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 (Download on the Visit web page)
Free stream exploration lesson guide.
Free self-guided tree tour literature and trail maps.

Programs Offered
Guided tours of the woods available by appointment with a donation rate of $1 per participant per hour.
Themed lessons (for children ages 4 - 12) covering topics such as Stream Ecology, Forest Ecology, Mammals of the Woods, Reptiles and Amphibians, Invasive Species in Saddler’s Woods, Native Americans, and Animal Tracking (please contact Donna at donna@saddlerswoods.org for more information) by appointment with a donation of $3 per participant per hour.
Seasonal Children's Programs - check our website for updates each season. Free volunteer forest restoration activities (invasive species removal, stream restoration, litter removal) by appointment.

Schuylkill Action Network (SAN)

Tom Davidock, SAN Coordinator
Partnership for the Delaware Estuary
One Riverwalk Plaza
110 S. Poplar Street
Wilmington, DE 19801
(800) 655-4990 x109, tdavidock@DelawareEstuary.org
Website: www.schuylkillwaters.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. The website is a resource where viewers can find watershed-related news, information on projects, and connection with SAN partner organizations. There is a shared story section that allows individuals to share their Schuylkill watershed experiences.

Programs Offered
Scholastic Water Protection Awards- 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 Alysa Suero, 215-814-5733.
SAN Schuylkill Action Students- Teacher workshops and onsite riparian buffer projects for streamside school properties in the Schuylkill watershed. Contact Tom Davidock for further information.
The Schuylkill Center for Environmental Education

Virginia Ranly, Director of Education
8480 Hagy’s Mill Road
Philadelphia, PA 19128-1998
(215) 482-7300, scee@schuylkillcenter.org
Website: 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 sustainable technologies) through which teachers can earn Act 48 credit hours. The Schuylkill Center is located on 350 acres of open space in Philadelphia, where the outdoors become the classroom, and a vast array of natural resources are available for teachers. Visit The Schuylkill Center website and calendar for details and a current schedule of programs for teachers and schools.

Programs Offered
First Look at a Pond
Grades pre-K—1
$5/student
(Offered Sep-Nov, Apr-June; Half day program) Explore one of our many ponds and find out what makes it such a special habitat. The prevalence of life at our ponds and hands-on exploration make this a popular, memorable program. E & E standards: 4.1, 4.3, 4.6, 4.7
Pond Community
Grades 2—3
$5/student
(Offered Sep-Nov, Apr-June; Half day program) Explore two unique ponds and learn about the variety of plants and animals that live there. Explore the relationships that exist between organisms and their environment. Find out how the pond ecosystem changes throughout the year. E & E standards: 4.1, 4.3, 4.6, 4.7
Wetlands
Grades 4—12
$5/student
(Offered Sep-Nov, Apr-June; Half day program) Students will discover the secrets of wetlands as they experience first-hand the features and functions of this unique ecosystem. Learn to identify the specific characteristics of wetland plants and soils while collecting and analyzing soil samples and dissecting plant stems. E & E standards: 4.1, 4.3, 4.6, 4.7
Water Survey
Grades 4—12
$5/student
(Offered year-round; Half day program) Discover the importance of water to all life. Trace the source of drinking water and factors that impact its quality. Hike to a pond or stream to perform a habitat assessment, chemical tests and a biotic survey to determine the health of the waterway. E & E standards: 4.1, 4.3, 4.6, 4.7, 4.8
Aquatic Ecology and Water Quality
Grades 4—12
$10/student
(Offered year-round; full-day program) Through laboratory investigations, a trail hike and a water quality study of a pond or stream, students will discover the importance of water to all living things. E & E standards: 4.1, 4.3, 4.6, 4.7, 4.8

Watershed Education Programs at Your School
What’s with Water
Grades 3—12
$100/class/$10 travel fee
This program is a comprehensive introduction to water as a natural resource and a thorough exploration of the water cycle.
Watershed Mapping Walk
Grades 3—12
$100/class + travel fee
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.
Watersheds & Water Pollution
Grades 3—12
$100/class + travel fee
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.
Wetlands & Water Quality
Grades 3—12
$100/class + travel fee
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.
Water Quality Testing
Grades 3—12
$100/class + travel fee
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.
Schuylkill River National & State Heritage Area

Kurt D. Zwikl, Executive Director
140 College Drive
Pottstown, PA  19464
(484) 945-0200, kzwilk@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 (for sale)
Watershed information
Schuylkill River Store

The Schuylkill Project

Kay Sykora, Director
111 Grape Street
Philadelphia, PA 19127
(215) 482-9565 x206, ksykora@manayunk.org
Website: www.destinationschuylkillriver.org.

Organization Description
The Schuylkill Project is a separate project under the Manayunk Development Corporation (MDC) with a focus on Planning,
Projects and Programming for the Schuylkill River from East Falls through Manayunk. 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
Currently we promote kayaking, dragon boating and support a number of volunteer groups in their efforts along the
Waterfront. We have done programming in the past (now in a state of change), but the Schuylkill Project would be able to
schedule times to meet with students and discuss the history of the canal and the plans for renovation.
Scotland Run Park Nature Center  
Gloucester County Parks & Recreation

6 Blackwood-Barnsboro Road  
Sewell, NJ 08080  
(856) 881-0845

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 are offered.

Silver Lake Nature Center

Robert Mercer, Director/Naturalist  
1306 Bath Road  
Bristol, PA 19007  
(215) 785-1177, ramercer@co.bucks.pa.us  
Website: www.SilverLakeNatureCenter.org

Organization Description
Trails are open every day from sunrise to sunset. Visitor Center (includes Indoor Exhibit Area/Gift Shop) is open Tuesday through Saturday from 10 AM to 5 PM, and Sundays from 12 noon to 5 PM. Silver Lake Nature Center is a 235-acre "natural treasure" in the heart of the southern portion of Bucks County, Pennsylvania. Come walk the 4.5 miles of trails and enjoy the shaded forests, the wetland boardwalks, and diverse plant life found here. Stop by the building and visit the Barnswallow Gift Shop and the exhibit room, and interact with the friendly, knowledgeable staff. Located close to Philadelphia and just a short distance from I-95, the Delaware Valley exit of the Pennsylvania Turnpike, the R-7 Regional Rail line, and the SEPTA buses 128 and 129, the Center is easy to reach.

Materials Available
Loan Boxes, library, studies

Programs Offered
On-site field trips & outreach programs for schools and other groups (preschool through adult), Birthday Parties, Scout Programs, Kayak Trips, Concerts, Free Guided Walks on Trails every Sunday at 2PM, Birding Field Trips, Annual Pond Tour, Annual Green Fest, and much more!
Spotts, Stevens and McCoy, Inc.

Lynn O’Hare
1047 North Park Road, PO Box 6307
Reading PA 19610-0307
610-621-2000, lynn.o’hare@ssmgroup.com
Website: www.ssmgroup.com

Organization Description
Spotts, Stevens and McCoy, Inc. (SSM) is an engineering and consulting firm serving government, education, healthcare, industrial, and commercial clients in Pennsylvania, across the United States and in the Caribbean. The staff of management consultants, engineers, geologists, surveyors, planners, landscape architects, and software developers integrates innovative technologies with sound engineering and scientific methods to provide practical solutions. From traditional design engineering services to web-based information management systems, SSM's resources deliver solutions.

Materials Available and Programs Offered.
SSM provides various programming and educational materials for business, industry, local government, and community-based groups related to source water protection.

South Branch Watershed Association, Inc. (SBWA)

Nicole Rahman, Program Director—Education and Outreach
41 Lilac Drive
Flemington, NJ 08822
(908) 782-0422 x14, 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.
South Jersey Bayshore Coalition

Cheryl Reardon, Coalition Coordinator
230 Marlton Road
Pilesgrove, NJ 08098
856-769-4220, anjec.cheryl@gmail.com
Website: www.sjbayshore.org

Organization Description
The South Jersey Bayshore Coalition is a group of 17 nonprofit organizations working to protect the Bayshore along the southwest coast of New Jersey. The South Jersey Bayshore Coalition has identified five key issues:
Promote sustainable agriculture industry
Preserve cultural/historic heritage
Preserve wildlife habitat
Protect ground and surface water quality and quantity
Promote economic revitalization that is compatible

Visit the website for partner links and event pages.

South Jersey Land & Water Trust

Christine Nolan, Director
P. O. Box 233
Glassboro, NJ 08028
(856) 881-2269, sjwatersheds@verizon.net
Website: www.sjlandwater.org

Mission
To preserve and protect the land and water resources of southern New Jersey – maintaining and enhancing the natural, cultural, and historic heritage of the region.

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

Programs Offered
List of events and ongoing programs are on our website
Land Preservation Municipal Assistance Program
Community & School Stormwater Education Program
Volunteer Stream Assessment Program and South Jersey Vernal Pool Project
Remediation efforts & Stream clean-ups
Canoeing & kayaking trips
County-wide (Gloucester Co.) Water Festival
Stroud Water Research Center (SWRC)

Dr. Susan E. Gill, Director of Education
970 Spencer Road
Avondale, PA 19311
(610) 268-2153 x238, sgill@stroudcenter.org
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 trips to SWRC (stream study) $350 per 4 hour program, consisting of hands-on stream and watershed investigations.

Estuary Fast-Fact:
A majority of the Delaware Estuary’s population of five million people live in one of the region’s three largest cities including Philadelphia, Pennsylvania, Camden, New Jersey, and Wilmington, Delaware.

Temple University Environmental Studies Program

Environmental Studies
309 Gladfelter Hall, Temple University
Philadelphia, PA 19122
(215) 204-1248, envtstud@temple.edu
Website: www.temple.edu/env-stud

Organization Description
Degree-granting program, offering a BA in Environmental Studies (with separate BS in Environmental Science); 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.
Tookany/Tacony-Frankford Watershed Partnership, Inc.

Sarah RobbGrieco, Executive Director
One Awbury Road, Awbury Arboretum
Philadelphia PA 19138
215-208-1619, info@ttfwatershed.org
Website: www.ttfwatershed.org

Organization Description
The Tookany/Tacony-Frankford Watershed Partnership (TTF) acts as the crucial link connecting residents, businesses and government as neighbors and stewards of this impaired, but critically important watershed in the Philadelphia metro region. Through educational programming, community outreach, networking services, and project coordination, TTF facilitates, supports, and initiates efforts to restore the health of the watershed, and to mobilize its communities as watershed stewards.

Materials Available
Database of watershed resources, including curriculum materials.

Programs Offered
We offer watershed lessons and service learning projects for students of all ages, including presentations, field trips, and hands-on activities such as plantings and stream clean-ups.

Tyler Arboretum

Betsey Ney, Director of Public Programs
515 Painter Road
Media, PA 19063-4424
(610) 566-9134 x214, bney@tylerarboretum.org
Website: 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 Water Delaware & United Water Bethel

2000 First State Blvd.
Wilmington, DE 19804
(302) 633-5900, 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 Earth, Ocean, and Environment

Kimberly Doucette
Marine Public Education Office
222 S. Chapel St, Room 103
Newark, DE 19716
(302) 831-8083, MarineCom@udel.edu
Website: http://www.ceoe.udel.edu

Organization Description
The mission of UD’s College of Earth, Ocean, and Environment is to advance understanding of Earth’s natural systems and the interactions of humans with the environment through engaged interdisciplinary research, teaching, and outreach. The college offers undergraduate and graduate programs at its two campuses in Newark and Lewes, Del.

Materials Available
Technical and non-technical publications are available online at http://www.ceoe.udel.edu/getinvolved/publications.shtml.

At Sea – The free electronic newsletter of the College of Earth, Ocean, and Environment and the Delaware Sea Grant College Program highlights the latest news, events, and activities, along with links to a variety of educational resources about the ocean and coast. Free. Visit http://www.ceoe.udel.edu/atsea to view or subscribe.

Programs Offered
Volunteer Programs: If you would like to volunteer your time, energy, and enthusiasm for a worthy cause, visit http://www.ceoe.udel.edu/getinvolved/volunteer.shtml.

Coast Day: This annual event is designed to showcase University of Delaware’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 and parking is free. For more information, visit http://www.decoastday.org.

Tours: Free tours of the UD College of Earth, Ocean, and Environment’s Hugh R. Sharp Campus in Lewes introduce visitors to marine research being conducted at the college. Tours are available year-round, are flexible, and may be arranged to meet each group’s special needs or interests. The program typically includes a 15-minute introductory video highlighting the work of many of the college’s faculty, followed by a one-hour walking tour of the college’s facilities. For more information, visit http://www.ceoe.udel.edu/getinvolved/tours-lewes.shtml or call 302-645-4346.

Lectures and Workshops: A wide variety of lectures, including the Wilmington Lunch and Lecture Series and Ocean Currents Lecture Series, are available throughout the year. For the latest schedule, or more information, visit http://www.ceoe.udel.edu/getinvolved/lectures-workshops.shtml.
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, jerryk@udel.edu
Website: www.wr.udel.edu or www.ipa.udel.edu

Mission
To provide regional water resources planning, management, and policy assistance to state and local governments as well as 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 (Watershed Projects)
Delaware Water Supply Coordinating Council
Delaware Source Water Assessment and Protection Plan
So. New Castle Co. Priority Watershed Strategy
Christina Basin Clean Water Partnership

Urban Tree Connection
“Building Community One Vacant Lot At A Time”

Skip Wiener
5125 Woodbine Avenue
Philadelphia, PA 19131
(215) 900-6758, skip@urbantreeconnection.org
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 for professional development.
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.

Estuary Fast-Fact:

The Delaware Estuary hosts the largest freshwater port in the world, accommodates the second-largest petrochemical port, and is home to five of the largest East Coast refineries, with over 42 million gallons of crude oil being transported on the Delaware River every day.
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, 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.

Valley Forge Chapter of Trout Unlimited (VFTU)

Jim Nelson, President  
P.O. Box 1356  
West Chester, PA 19380  
484-947-1515, Jwnelson39@verizon.net  
Website: www.ValleyForgeTU.org

Organization Description
Valley Forge Trout Unlimited is a local chapter of the national organization, Trout Unlimited. VFTU operates in the northern Chester County area and draws its membership from a broader area. Our primary stream of concern is the Valley Creek Watershed. We are an organization of conservationists and environmentalist who also enjoy fishing for trout.

Mission Statement
The Valley Forge Chapter of Trout Unlimited is dedicated to preserving, protecting, and restoring trout habitat throughout Chester County, PA

Materials Available
VFTU has done a number of stream improvement projects and stormwater management projects. Details of this work is available.

Programs Offered
VFTU offers several programs perhaps the best known is the widely acclaimed "Trout in the Classroom" program. Other offerings include "Backyard Ecology" consultations, Fly Fishing School, and our annual Trout Show.
Villanova Urban Stormwater Partnership

Robert G. Traver, Ph.D., PE, D.WRE
Civil and Environmental Engineering
800 Lancaster Avenue
Villanova, PA 19085
610-519-7899, Robert.traver@villanova.edu
Website: www.villanova.edu/vusp

Mission
The mission of the Villanova Urban Stormwater Partnership is to advance the evolving field of sustainable stormwater management and to foster the development of public and private partnerships through research on innovative stormwater Best Management Practices, directed studies, technology transfer and education.

Materials Available and Programs Offered
See website - Many research documents and symposiums.

The Wetlands Institute
1075 Stone Harbor Boulevard
Stone Harbor, NJ 08247-1424
(609) 368-1211
Website: www.wetlandsinstitute.org

Mission
To promote appreciation, understanding and stewardship of wetlands and coastal ecosystems through our programs in research, education and conservation.

Programs Offered
Workshops are available for teachers
If your class has special needs, please call to see if your interests can be accommodated.

- Marsh Critters & Discovery Walk  Grades PreK-2  1 Hour  $7/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  $8/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  $8/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  $9/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  $9/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  $9/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.
White Clay Creek State Park

Angel L. Burns, Nature Center Manager
425 Wedgewood Road
Newark, DE 19711
(302) 368-6560, angel.burns@state.de.us
Website: www.destateparks.com

Organization Description
White Clay Creek State Park is relaxing oasis away from the encroaching development of New Castle County. The park’s lush greenery and sparkling stream offer a refreshing change of pace and many opportunities for recreation, education and fun. At the Nature Center, your group can participate in an organized educational program or weekend family program. Park entrance fees in effect March –November. Contact us for more details (302) 368-6560.

Programs Offered
For more programs call (302) 368-6560 or visit www.destateparks.com. Fees vary with group size and length of program but range from $3 -$6 per student.

Sensing Wildlife
Kids will have a wild time learning about the five senses and using related sensory organs to explore wildlife. Using hand lenses, students will venture outside for a hike along the creek to sort and compare the nature items they find. This program can also be brought to your school.

Geology for 3rd Grade
Rocks are made up of minerals that can be sorted by properties. Students will become junior geologists by exploring different mineral properties. Equipped with geology hammers, they will use the information they learn to sort rocks on a gravel bar along White Clay Creek.

Life, Land and Water for 4th Grade
Students will identify aquatic and riparian organisms along the stream and observe first hand the different functions of living things. They will see real world examples of water’s power to shape the landscape, learn about the water cycle and test water quality.

Wild in the Park for summer camp groups
Let our Park Naturalists add something wild to your line-up! Wild in the Park will offer a nature lesson, creek hike, and interactive nature activities. A variety of themes are available such as mammals, insects, stream life, reptiles and amphibians and more!

Estuary Fast-Fact:

The Delaware Estuary is a vital ecosystem, creating habitat for more than 130 species of finfish, as well as clams, oysters, and crabs.
Wildlife Habitat Council (WHC) - Corporate Lands for Learning (CLL)

Thelma Redick, Director of Conservation Education and Outreach
Katie Basiotis, Northeastern Regional Biologist
8737 Colesville Road, Suite 800
Silver Spring, MD 20910
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 learners, both adults and children, with 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.

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.

Wilmington State Parks and Alapocas Run State Park

Barbara Woodford, Interpretive Manager
1021 West 18th Street
Wilmington, DE  19802
(302) 577-7020, barbara.woodford@state.de.us
Website: www.destateparks.com/park/wilmington

Organization Description
Wilmington and Alapocas Run State Parks offer educational programs both in our parks and at your school. Programs for ages range from first grade through high school and include multi-curricular topics related to the Brandywine Creek, its natural and cultural development.
Wissahickon Environmental Center

Patricia Fries
Tree House
Northwestern Avenue
Philadelphia, PA  19118
(215) 685-9285, patricia.fries@phila.gov
Website: 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

Amanda Hymansmith, Field Director
3721 Midvale Avenue
Philadelphia, PA  19129
(215) 951-0330 x2101, wrv.info@rhd.org
www.wissahickonrestorationvolunteers.org

Organization Description
WRV is a community based environmental organization that is dedicated to preserving the biological diversity and scenic tranquility of the 1,800 acre Wissahickon Valley section of Fairmount Park. The primary goal of WRV’s ecological restoration program is to promote the sustainable use of the park and improve the long-term ecological health of this exceptional natural resource, while educating members of the community on responsible environmental stewardship through hands-on learning.

Materials Available
Quarterly newsletters—free. (May be downloaded from the website)
Informational brochure
Crew Leader Training Manual
Neighborhood Stewardship Manual
Various other educational materials

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. WRV also offers educational services for students and volunteer groups, providing information about our natural restoration process and why the work we do is vital to the health of the Wissahickon Valley Park.
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 lifelong environmental education.

Please visit the website at www.wvwa.org or call the office at 215-646-8866 for current programs offered.

Estuary Fast-Fact:
The second largest concentration of migrating shorebirds in the Western Hemisphere is found in the Delaware Estuary, as well as the largest population of spawning horseshoe crabs in the world.

Woodford Cedar Run Wildlife Refuge (WCRWR)
Terri Loy, Director of Education
4 Sawmill Road
Medford, NJ 08055
(856) 983-3329 x103, terri.loy@cedarrun.org
Website: www.cedarrun.org

Organization Description
WCRWR is a 174 acre wildlife refuge, wildlife rehabilitation hospital and environmental education center with a mission to function as a definitive resource on the importance of protecting and enhancing healthy habitats. To that end, Cedar Run engages in: ecologically based land management; the operation of a federally and NJ State licensed hospital facility that cares for nearly 4,000 injured, orphaned or displaced native wild animals each year; the education of over 19,000 students annually through our various on-site and outreach programs; and serves as a resource to the Southern New Jersey community on all wildlife and habitat related questions and issues.

Materials Available
Quarterly newsletter, "Tales from Cedar Run," also available on website
Education brochure
Wildlife Gallery and Virtual Tour on website

Programs Offered
Refuge Adventures: on site interactive outdoor discovery programs.
Refuge on Wheels: Travelling interactive live animal programs. See website for details.
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**PLEASE NOTE:** This index is based upon information provided for this publication, and may not completely represent all available offerings for each organization. Please research organizations via websites and contact information for complete details on materials, programs and other opportunities available.
The Delaware Estuary faces many environmental challenges. Thus, it is vitally important for ecology and industry to continually work together to protect this precious resource that means so much to so many.
Partnership for the Delaware Estuary, Inc.
One Riverwalk Plaza
110 South Poplar Street, Suite 202
Wilmington, Delaware 19801
1-800-445-4935
www.DelawareEstuary.org

Philadelphia Water Department
Public Education Unit
1101 Market Street, 3rd Floor
Philadelphia, Pennsylvania 19107
215-685-6300
www.phila.gov/water

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