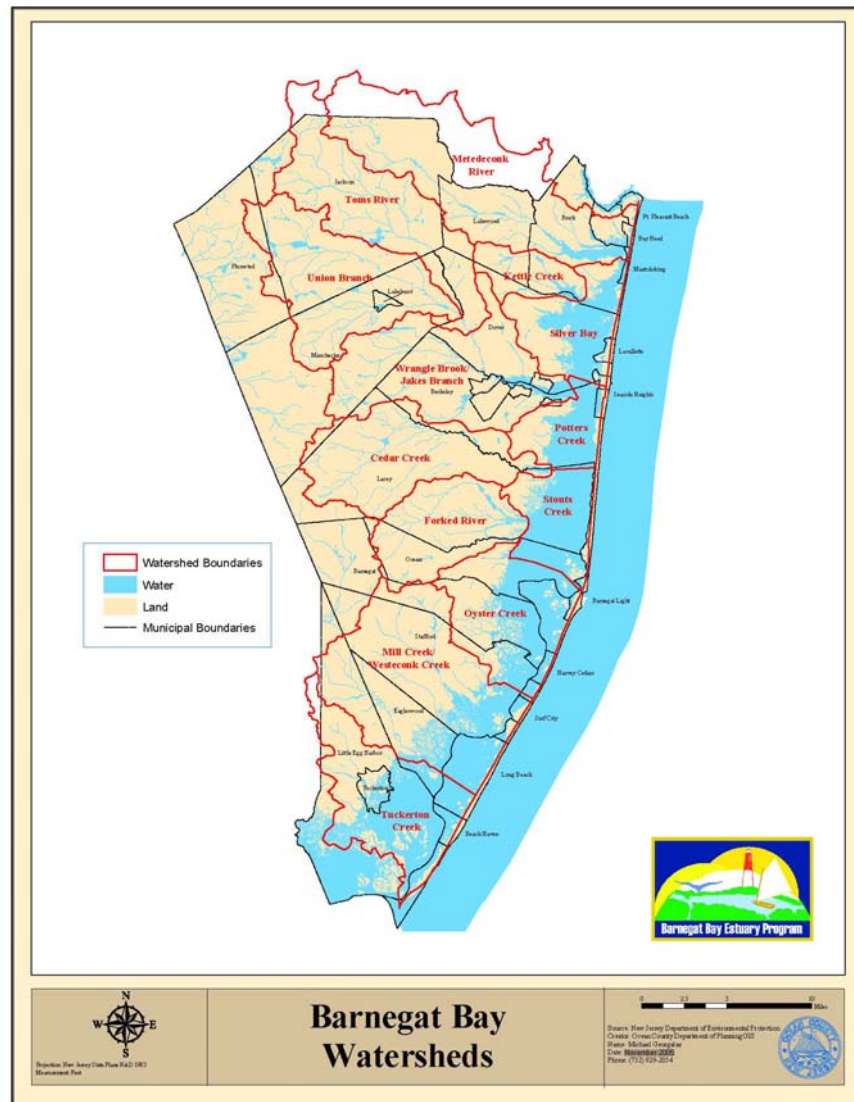


Barnegat Bay Watershed Educational Resource Guide



*Prepared by Christine R. Raabe
For the Ocean County Soil Conservation District and the
Barnegat Bay Watershed Environmental Educators Roundtable*

Updated: 2006 by the Barnegat Bay National Estuary Program

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Introduction

The Ocean County Soil Conservation District and the Barnegat Bay Watershed Environmental Educators Roundtable discovered that educators within the watershed need assistance in finding pertinent information and resources if they are to effectively teach about the Barnegat Bay watershed and the issues that impact it. This guide has been compiled to answer that need.

What began as a simple directory has grown into an annotated compendium of resources and organizations offering numerous programs, publications, field trips, and watershed information that educators can incorporate into their lessons and activities. It is a guide that will prove useful to anyone searching for information about the features and functions of the Barnegat Bay watershed.

This Educator's Resource Guide will be updated periodically. Please help us keep the document current by e-mailing Mary Judge at mjudge@ocean.edu with any additions, deletions, or corrections to the entries in this Directory. Thank you for your help with this ongoing project.

Original funding for this guide was provided by the USEPA and the NJDEP through the Barnegat Bay National Estuary Program and the Partnership for Nonpoint Source Pollution Control in the Barnegat Bay Watershed.

How to Use this Guide

Section One: Organizations and Agencies Involved with Barnegat Bay Watershed Education

Addresses, telephone numbers, fax numbers, and web sites (when available) are listed for each entry. The names of any particular contact person were intentionally left out to avoid the inevitable inaccuracy that would occur. Please take the time to find out the names of the many wonderful people at work within the watershed, and make the personal contacts that will help bring your environmental education efforts to life.

Section Two: National Organizations for Additional Resources

This section lists the names, addresses, telephone numbers, fax numbers, and web site addresses for the "Big Ten" national organizations that provide environmental education materials to teachers and youth group leaders. This is not meant to be a complete list, but rather a focused list for preliminary inquiries.

Section Three: A Synopsis of Teacher Resources

This is not a listing of all resources available, but does list those that have been reviewed and identified as significant. A brief synopsis for each is included, and the information needed to obtain each item. Those marked with a “#” are New Jersey-based and/or specific. Many of the resources are part of a library housed at the Ocean County Soil Conservation District or the Barnegat Bay National Estuary Program.

Section Four: Other Resource Guides and Directories

Some of these resources are very specific to the Barnegat Bay region, such as the Pinelands Guide or the Ocean County Government Directory. Others are resource-specific, such as the Marine Education Resource Guide. These resources provide good sources for additional contacts and information that were too comprehensive to include here.

Section Five: Map Resources

No discussion or investigation into watersheds would be complete without the appropriate maps. We have provided a short listing and description of the map resources that are readily available. A full color, digitized map of the entire Barnegat Bay watershed is included in this guide. The map can be printed out and laminated or copied onto a transparency to use with an overhead projector. If you would like a copy mailed to you, please e-mail Mary Judge at mjudge@ocean.edu.

Section Six: Barnegat Bay Watershed Environmental Educators Roundtable Steering Committee Members

Organizations and Agencies Involved with Barnegat Bay Watershed Education

Alliance for a Living Ocean

Mailing Address and Shop/Office Location:

2007 Long Beach Boulevard

North Beach Haven, NJ 08008

Phone: 609-492-0222/ Fax: 609-492-6216

www.livingocean.org

E-mail: livingoceanalo@comcast.net

Alliance for a Living Ocean (ALO) educates the public about the importance of maintaining good water quality in the Atlantic Ocean, the Barnegat Bay, and its watershed. They have an extensive array of programs that are offered year-round to school groups and the general public, including *The Crab Connection* (a nonpoint source pollution storm-drain stenciling program), *Adopt-A-Beach* (a beach cleanup and preservation effort) and, during the summer, *Inherit the Earth* (includes field trips, environmental talks, and seining days). In addition, ALO hosts the *Eco-tour of a Barrier Island*, a hands-on bus trip that follows an ALO guide to various locations around the island and educates students about the unique and fragile ecology of a barrier island and the surrounding environs of the bay and the ocean. ALO coordinates the *Barnegat Bay Watch Monitoring Program*, which is a group of over 50 volunteers who test water samples every two weeks from April to November at 36 sites on the Bay.

Alliance for New Jersey Environmental Education

P.O. Box 693

Bernardsville, NJ 07924

Phone: 908-766-5787/ Fax: 908-766-7775

www.anjee.net

The Alliance for New Jersey Environmental Education (ANJEE) is a statewide nonprofit organization that provides a structure for its members to collaborate and cooperate in projects and programs to facilitate the overall improvement of environmental education. They hold workshops and an annual conference, which includes an evening of music. Membership is reasonable and provides access to a growing network of educators involved with all aspects of environmental education throughout the state.

American Littoral Society - South Jersey

P.O. Box 1306

Tuckerton, NJ 08087

Phone: 609-294-3111/ Fax: 609-294-8044

www.littoralsociety.org

The American Littoral Society is a national, membership-based organization that focuses on the littoral zone – that area between the ocean and the upland that includes the entire watershed in its scope. Their headquarters is located on Sandy Hook in Highlands, New Jersey. They offer a number of field trip opportunities to explore the coastal environment, including kayak tours and hikes. They also are available for presentations and school programs that cover such topics as smart growth, natural history of the littoral zone, etc. The Society also offers special trips around the world and has an extensive list of resources available, including their newsletter and many other informational publications and fact sheets.

Associated Humane Societies - Popcorn Park Zoo

1 Humane Way
P.O. Box 43
Forked River, NJ 08731
Phone: 609-693-1900/ Fax: 609-693-8404
www.popcornparkzoo.org

The Popcorn Park Zoo is a facility of the Associated Humane Societies. The zoo, located in Forked River, is a special rescue zoo where over 200 animals are kept. They take in wildlife, birds, exotic, and farm animals. All of the animals have been rescued due to injury, handicap, cruelty, exploitation, or illegal ownership. School groups can make appointments for special tours of the zoo to learn about the animals. There are sponsorship programs available for animals at the zoo, as well as informational publications about the humane treatment of animals. Visitors to the website can view the zoo animals available for sponsorship as well as read many of their stories.

Barnegat Bay National Estuary Program

Ocean County College
College Drive
P.O. Box 2001
Toms River, NJ 08754-2001
Phone: 732-255-0472/ Fax: 732-255-0473
www.bbep.org
E-mail: mjudge@ocean.edu

The Barnegat Bay National Estuary Program (BBNEP) is a federal program that, together with the state of New Jersey, Ocean County and local communities, will help restore, maintain, protect and enhance the natural resources of the Barnegat Bay estuary and its contributing watershed. Over 450,000 people live within the Barnegat Bay watershed, which includes nearly all of Ocean County. That population doubles in the summer as people flock to the shore. The continued economic health of the Barnegat Bay watershed is dependent on the continued health of its natural resources. Four areas have been identified as priority issues. They are:

1. Water quality and supply;
2. Habitat restoration and protection;

3. Reducing human use conflicts; and
4. Public education and outreach.

The BBNEP has developed a Comprehensive Conservation and Management Plan that includes a characterization of the region, a statement of priority problems, environmental quality, goals and objectives, action plans, implementation strategy and financial plan, and a summary of public involvement. The BBNEP also awards mini-grants annually for proposals which promote public participation and educational activities and organizes the annual Barnegat Bay Festival. The “In the Classroom” section of their quarterly newsletter *The Barnegat Bay Beat*, reports on upcoming events or resources available to educators.

Barnegat Bay Watershed and Estuary Association

P.O. Box 364

Island Heights, NJ 08732-0364

Phone: 732-505-3671/ Fax: 732-505-8941

www.bbweef.org

E-mail: bbweef@bbweef.org

The Barnegat Bay Watershed and Estuary Foundation (BBWEF) aims to be the leading nonprofit organization that facilitates and funds projects in the Barnegat Bay Watershed. Founded in 1994 as the Barnegat Bay Watershed Association, the BBWEF works to preserve the watershed, hosting seminars that foster understanding and consensus among watershed residents and users, and providing educational materials to the public, including a newsletter and a watershed curriculum for elementary schools. The BBWEF is responsible for the installation of colorful signs, dubbed “Barnie the Crab,” on many county roads that announce that travelers are entering the Barnegat Bay watershed. Recently, the BBWEF received grants to construct a low-maintenance demonstration garden, perform a stream clean-up, and do watershed assessments to determine which parts of the Barnegat Bay watershed are environmentally impaired and in need of restoration. Elementary school teachers may contact the BBWEF for information on how to obtain its “Barnie the Crab” curriculum.

Clean Ocean Action

P.O. Box 505, Sandy Hook

Highlands, NJ 07732

Phone: 732-872-0111/ Fax: 732-872-8041

www.cleanoceanaction.org

Clean Ocean Action’s goal is to improve the degraded marine water quality off the New Jersey and New York coasts and within New Jersey coastal watersheds. The organization identifies pollution sources and uses research, public education, and citizen action to correct the problem. Clean Ocean Action is a broad-based coalition of over 170 conservation, environmental, fishing, boating, diving, student, surfing, women’s, business, service, and community groups with a wide range of experience and concern regarding ocean pollution issues. They also host a variety of programs, including the Student Summit, Beach Sweeps, and other educational programs. Clean

Ocean Action will also make presentations to groups on water quality, watershed and coastal issues.

Conserve Wildlife Foundation of New Jersey

501 E. State Street, PO Box 400
Trenton, NJ 08625-0400
Phone: 609-292-1276/Fax: 609-984-1414
www.conservewildlifenj.org

Created in 1998, the Conserve Wildlife Foundation of New Jersey is a private, not-for-profit organization dedicated to conserving and protecting New Jersey's non-game wildlife, including New Jersey's endangered and threatened species. This is accomplished through financial assistance, public education efforts, and community outreach initiatives which support the New Jersey Division of Fish and Wildlife's Endangered and Non-game Species Program. Conserve Wildlife Foundation of New Jersey provides professional development workshops and in-services for teachers focusing on New Jersey's rare wildlife populations. Conserve Wildlife Foundation of New Jersey has created *The Reptile and Amphibian Resource Package for Teachers* which encourages teachers and students to look more closely at the reptiles, amphibians, and landscapes of their local area. *The Peregrine Project*, a 6-month unit focusing on the peregrine falcon and other birds of prey is also available. Additionally, every year CWF sponsors the Species on the Edge – Art & Essay Contest for 5th grade students throughout New Jersey.

Environmental Commissions

The following are municipalities with active Environmental Commissions. Often, the most direct avenue for locally-specific environmental issues and concerns, the commissions listed below may provide some assistance and insight. To contact the Commission in your borough or township, use the municipal government offices listed below:

Barnegat
900 West Bay Avenue
Barnegat, NJ 08005
Phone: 609-698-0080

Pinewald-Keswick Rd.
P.O. Box B
Bayville, NJ 08721
Phone: 732-244-7400

P.O. Box 409
West Creek, NJ 08092
Phone: 609-296-3040

Barnegat Light (Borough of) –
(*See below)

Brick
401 Chambers Bridge Road
Brick, NJ 08723
Phone: 732-262-1000

Harvey Cedars (*See
below)
Island Heights
P.O. Box 797
Island Heights, NJ
08732-0797
Phone: 732-270-6415

Bay Head
81 Bridge Ave.
P.O. Box 246
Bay Head, NJ 08742
Phone: 732-892-0636

Dover
33 Washington Street
P.O. Box 728
Toms River 08754
Phone: 732-341-1000, ext. 8351

Jackson
95 West Veterans
Highway
Jackson, NJ 08527
Phone: 732-928-1200

Beach Haven, Borough of (*See
below)

Berkeley

Eagleswood
146 Division Street

Lacey
818 Lacey Road
Forked River, NJ 08731
Phone: 609-693-1100

Lakewood
231 Third Street
Lakewood, NJ 08701
Phone: 732-364-2500

Little Egg Harbor
665 Radio Road
Little Egg Harbor, NJ 08087
Phone: 609-296-7241

Long Beach Township (*See below)

Manchester
1 Colonial Drive
Lakehurst, NJ 08733
Phone: 732-657-8121

Millstone
P.O. Box 59
Clarksburg, NJ 08510
www.millstone.nj.us/environmental.htm

Ocean
50 Railroad Avenue
Waretown, NJ 08758
Phone: 609-693-3302

Pine Beach
P.O. Box 425
Pine Beach, NJ 08741
Phone: 732-349-6425

Plumsted
121 Evergreen Road
New Egypt, NJ 08533
Phone: 609-758-2241

Pt. Pleasant
2233 Bridge Ave.
P.O. Box 25
Pt. Pleasant, NJ 08742
Phone: 732-892-3434

Pt. Pleasant Beach
416 New Jersey Ave.
Pt. Pleasant Beach, NJ 08742

Phone: 732-892-1118

Seaside Heights
901 Boulevard
P.O. Box 38
Seaside Hgts., NJ 08751
Phone: 732-793-9100

Ship Bottom (*See below)
1621 Long Beach Boulevard
Ship Bottom, NJ 08008
Phone: 609-494-2171

Stafford
260 E. Bay Avenue
Manahawkin, NJ 08050
Phone: 609-597-1000

Surf City (*See below)

Tuckerton
140 East Main Street
Tuckerton, NJ 08087
Phone: 609-296-2701

*A joint environmental commission has been formed with Barnegat Light, Harvey Cedars, Surf City, Beach Haven, Long Beach Township, and Ship Bottom, with Ship Bottom as the lead agency.

*Association of New Jersey
Environmental Commissions (ANJEC)*
P.O. Box 157
Mendham, NJ 07945
Phone: 973-539-7547/ Fax: 973-539-7713
www.anjec.org
E-mail: info@anjec.org

Ocean County Environmental Agency
P.O. Box 2191
Toms River, NJ 08754-2191
Phone: 732-505-3671/ Fax: 732-505-8941

Forked River Mountain Coalition
P.O. Box 219
Forked River, NJ 08731
Phone: 609-971-1635/ Fax: 609-971-9435
www.frmc.org

The Forked River Mountains are the centerpiece of a vast wilderness located in the Pine Barrens of Ocean County that contain over 20,000 acres of pristine forests and streams. The area is rich

in culture and history and is home to a variety of wildlife, including many rare, threatened and endangered plants and animals. The Forked River Mountain Coalition is a nonprofit organization working to conserve, maintain, protect and restore the natural, cultural, historical, recreational and other resources of the Forked River Mountains. In order to help increase public awareness about this unique area, the Coalition offers a speakers program and a slide show. Numerous educational outings such as field trips, hikes, and canoe trips are conducted throughout the year. A newsletter is also available. The group holds an annual cleanup each spring. A hiking and bluebird trail are currently being planned.

Friends of Island Beach State Park

P.O. Box 37

Seaside Park, NJ 08752

Phone: 732-793-5525/ Fax: 732-793-5525

www.friendsofislandbeach.com

The Friends of Island Beach State Park recognize that Island Beach State Park is a unique, natural, educational, and recreational resource. The Friends group is an advisory and volunteer worker organization to assist Island Beach State Park in promoting its resources and maintaining the Park to its natural high standard. The group encourages support for the programs of the park through volunteering to assist in their interpretive activities, fundraising, and providing information and assistance in all operations of the Park.

Gateway National Recreation Area - Sandy Hook

P.O. Box 530

Fort Hancock, NJ 07732

Phone: 732-872-5970/ Fax: 732-872-5915

www.nps.gov/gate

Opportunities for visiting a barrier island environment and participating in any number of coastal ecology programs exist at Sandy Hook. Particularly significant is the accessibility of the Bayside and salt marsh area at this facility and, in fact, a program geared specifically to salt marsh ecology is offered. Although out of the Barnegat Bay watershed, this may be appropriate for the northern residents and school groups. It is the site of Fort Hancock and offers unique views of the Twin Lights in Highlands, New Jersey, and the New York City skyline. Due to the diverse historical uses of Sandy Hook, they also offer programs and displays on topics such as the US Army, Lighthouses, and the US Life Saving Service.

Georgian Court University

900 Lakewood Avenue

Lakewood, NJ 08701

Phone: 732-987-2345/Fax: 732-987-2010

www.georgian.edu

The university is located in the northern part of the Barnegat Bay watershed on the shores of the Metedeconk River. Its science departments offer a regionally specific look at the watershed through science courses in a variety of specialty areas at both the graduate (biology) and undergraduate (biology, chemistry, biochemistry, and physics) levels. Some of the university's faculty members do research in the watershed and are available to give guest lectures. The university has a weather station, a science discovery garden, an arboretum with dozens of native woody plant species labeled for the public, and an extensive library with many watershed-related resources.

Girl Scouts of Ocean County

1405 Old Freehold Road
Toms River, NJ 08753
Phone: 732-349-4499/ Fax: 732-349-4690
www.ocgsc.org

The Girl Scouts of Ocean County serve all of the scout troops from Toms River south (Brick is part of the Monmouth County Girl Scouts). The Girl Scouts offers quite extensive opportunities to girls ranging in age from 5 through adulthood. Troops are operating throughout the county in schools and other facilities. Although not exclusively an environmental organization, the Girl Scouts have participated in a number of environmental and watershed-related projects and programs.

Institute of Marine and Coastal Sciences at Rutgers University

71 Dudley Road
New Brunswick, NJ 08901
Phone: 732-932-6555, ext. 505/Fax: 732-932-8578
www.imcs.rutgers.edu

The Jacques Cousteau National Estuarine Research Reserve (JCNERR)
130 Great Bay Blvd.
Tuckerton, NJ 08087
Phone: 609-812-0649/Fax: 609-294-8597
www.jcnerr.org

A nationally recognized staff, well-equipped modern laboratories and field stations at key locations combine to make the Institute of Marine and Coastal Sciences (IMCS) a focal point for those studying marine and coastal habitats in New Jersey and the Mid-Atlantic region. IMCS and the JCNERR provide educational opportunities and professional development based on the scientific research of both organizations for a variety of audiences, including K-12 educators and students, coastal managers, and the public. A cornerstone education program over the past 10 years has been Marine Activities, Resources and Education (MARE), which brings the ocean to K-8 classrooms in support of basic skills training, problem solving, and critical thinking. Formal teacher training for MARE is typically conducted every summer via the MARE Summer

Institute, which brings together classroom educators, education specialists, and scientists through hands-on and field-based experiences. Education efforts have also focused on the world's first cabled coastal ocean observatory, initiated by IMCS and located a few miles offshore of southeastern New Jersey. Known as the Long-term Ecosystem Observatory (LEO), this site is a collection of instruments above and below the ocean's surface that allows scientists to monitor the pulse of our coastal ocean through continuous data collection, much of which is available in real-time. Through IMCS and the Mid-Atlantic Center for Ocean Sciences Education Excellence (MA-COSEE) a collection of educational products have been developed to introduce students and the public to the data and technology associated with ocean observatories and how this data applies to their lives and interests. For more information visit www.coolclassroom.org and www.macossee.net.

Jenkinson's Aquarium

Mailing Address:

300 Ocean Avenue

Point Pleasant Beach, NJ 08742

Phone: 732-899-1212 or 732-899-1659/ Fax: 732-899-1717

www.jenkinsons.com

E-mail: jenkinsonsaquarium@comcast.net

Aquarium Location:

Boardwalk and Parkway, Point Pleasant Beach

Jenkinson's Aquarium is owned by a privately-held corporation and is dedicated to educating the general public on all aspects of marine life and conservation. In order to promote ecological understanding, they have developed innovative educational programs both within the Aquarium and through Outreach Programs. The aquatic exhibits within the aquarium weave the thread of aquatic food chains as a patron wanders through the facility. A wonderful field trip opportunity for teachers wishing to excite their students about the wonders of the marine world. A classroom is available for focus programs, which highlight a particular subject matter for school groups. Outreach programs are continually being developed and are available on a wide assortment of topics. Call for the updated list of scheduled programs. All programs must be pre-scheduled. Group discount rates are available. Public education programs are also available.

Jersey Shore Council - Boy Scouts of America

1518 Ridgeway Road
Toms River, NJ 08755
Phone: 732-349-1037/ Fax: 732-349-8093
www.jerseyshore-bsa.org

The Boy Scouts of America actively supports environmental programs that protect the area's unique ecosystem. Environmental awareness and advocacy is a staple of the Scouting program at all levels from Cub Scouts and Boy Scouts to Venturing. Hands-on activities teach Scouts to appreciate and respect the world around them, and help them develop into environmentally conscious adults. Park clean-ups, wildlife observation and education, and camp-based environmental activities emphasize the Scouts' role in their natural world. Many Eagle Scout projects have an environment-related goal, and special camp programs enable Scouts to experience the Barnegat Bay in a variety of up-close ways.

Long Beach Island Foundation of the Arts and Sciences

120 Long Beach Boulevard
Loveladies, NJ 08008
Phone: 609-494-1241/ Fax: 609-494-0662
E-mail: office@lbifoundation.org

Located on the Long Beach barrier island, the Foundation is dedicated to providing courses and programs that focus on the arts and sciences. This exemplary facility provides a unique opportunity for involvement in the local environment as the property contains approximately 22 acres of wetlands adjacent to Barnegat Bay and is located across the street from the Atlantic Ocean. Children's Marine Biology and Nature Studies Programs run from Monday through Friday in July and August. These provide focused nature exploration and hands-on field trip experiences for young watershed residents.

Marine Mammal Stranding Center

3625 Brigantine Boulevard, P.O. Box 773
Brigantine, NJ 08203
Phone: 609-266-0538/ Fax: 609-266-6300
www.mmsc.org
E-mail: mmsc@verizon.net

The Marine Mammal Stranding Center is a private, non-profit organization that was founded in 1978. Funded by donations and grants, it is the only organization in the state of New Jersey authorized to rescue and rehabilitate stranded or otherwise distressed marine mammals and sea turtles. Based in Brigantine, New Jersey, the Center has responded to over 2,755 calls for stranded whales, dolphins, seals and sea turtles that washed ashore on New Jersey's beaches. Whenever possible, the animals are brought back to the Center for rehabilitation and eventual release. Rehabilitation can last up to several months and cost thousands of dollars for a single

animal. Outreach programs are available to schools and other interested groups. The Center's Museum is open to the public year-round. Hours vary, so it is advised that you call ahead for available times. Groups must call ahead to make advanced arrangements for tours and programs.

Natural Resource Education Foundation of New Jersey, Inc.

Lighthouse Center for Natural Resource Education

P.O. Box 747

Waretown, NJ 08758

www.lighthousecenternj.org

E-mail: lighthousecenternj@yahoo.com

The Natural Resource Education Foundation of New Jersey will offer experiential education opportunities through their program "Experience Barnegat Bay" at the Lighthouse Center. This 95-acre site boasts diverse coastal habitats, including salt marsh, fresh water pond, maritime forest, and bayfront access. The extensive facilities include dormitories, a lodge and dining hall that each sit 90+ people, conference center, outdoor education classrooms (which include sites on shore birds, bay life, maritime forest, salt marsh, and watershed exploration), numerous cabins, and a boat house. The Lighthouse Center will provide information, education and citizen training to foster a deeper appreciation for New Jersey's, and in particular Barnegat Bay's, natural resources. Programs will encourage active participation of visitors in protection and management of those resources. The mission of the Foundation is to foster environmental leadership and stewardship, to develop resources that fulfill environmental needs on the community level, and to build a healthy, just and sustainable society through educational leadership and community action programs.

The Nature Conservancy – New Jersey Chapter

Kay Environmental Center

200 Pottersville Road

Chester, NJ 07930

Phone: 908-879-7262, ext. 32/ Fax: 908-879-2172

www.nature.org/new_jersey

E-mail: aberridge@tnc.org

The Nature Conservancy, established in 1951, is an international, nonprofit conservation organization dedicated to preserving the plants, animals, and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive. Active in New Jersey since 1955, the Conservancy established the New Jersey Chapter office in 1988. The organization hosts a number of field trip experiences and has a variety of informational publications.

New Jersey Academy for Aquatic Sciences (NJAAS)

1 Riverside Drive

Camden, NJ 08103-1060

Phone: 856-365-0352

Fax: 856-365-3318

www.njaquarium.org/education/teachers.html

The New Jersey Coastal Management Program has partnered with Adventure Aquarium and the New Jersey Academy for Aquatic Sciences (NJAAS) in Camden, New Jersey, to create a fun, innovative, and educational program for aquarium visitors on coastal nonpoint source pollution. The three-part educational program is designed to teach visitors about polluted runoff and the steps they can take to reduce nonpoint source pollution. As part of the educational program, the NJAAS purchased a Coastal EnviroScape model to demonstrate how nonpoint source pollution flows throughout the watershed and eventually into the estuary and ocean waters to aquarium visitors. New Jersey's demonstration emphasizes polluted runoff from urban activities, marina and boating activities, and agriculture – three main sources of coastal nonpoint source pollution in the state – as well as primary focuses of New Jersey's Coastal Nonpoint Program. In addition, the NJAAS developed a theatre production for the Aquarium on nonpoint source pollution. In the production a “talking fish” leads an aquarium owner on an upward journey through the New Jersey watershed, discovering that pollution begins a lot closer to home than most people think. The audience gains an understanding of the causes of polluted runoff, its impacts, the strategies already in place to reduce it, and what more they can do every day to limit their contributions to nonpoint source pollution. For additional information, contact Tali Engoltz at tali.engoltz@dep.state.nj.us

New Jersey Audubon Society

New Jersey Audubon Society (NJAS) is a statewide, nonprofit membership organization with a threefold mission of conservation, environmental education and research.

Headquarters

Department of Education

600 Route 47 North

Cape May Courthouse, NJ 08210

Phone: 609-861-0700/Fax: 609-861-1651

www.njaudubon.org

NJAS provides programs about nature, habitat diversity, and environmental issues for members, educators, government officials and the general public. The Society maintains ten staffed sanctuaries throughout the state that offer a variety of programs. NJAS coordinates the New Jersey WATERS: A Watershed Approach to Teaching the Ecology of Regional Systems, A Guide for Middle School and High School Educators, which is a comprehensive book describing the features of each of the state's watershed regions. They also have produced the award-winning Bridges to the Natural World -- A Natural History Guide for teacher of grades pre-K through six that includes a series of activities that investigate the habitats of New Jersey.

Rancocas Nature Center

794 Rancocas Road
Mount Holly, NJ 08060
Phone: 609-261-2495/ Fax: 609-267-1432

The Rancocas Nature Center is located in Mount Holly on an old farmstead that is partially bounded by the creek. Self-guided nature trails familiarize the visitor with Inner Coastal Plain vegetation. Examples of willow oak, black locust, American holly, sweet gum, red maple, spicebush, and the like may be found. Wildlife abounds in this natural setting and opportunities for field study are readily available from the experienced staff. Arrangements can be made for indoor and outdoor educational programs at the center or in schools. Adult natural history field trips are scheduled regularly; these usually visit the Pinelands and other south Jersey localities for bird, plant, and animal study.

Information about the Rancocas Nature Center, including directions, hours, and a calendar of events, can be found at: www.njaudubon.org/centers/rancocas

New Jersey Coastal Heritage Trail Route

P.O. Box 568
Newport, NJ 08345
Phone: 856-447-0103/ Fax: 856-447-0108
www.nps.gov/neje

The New Jersey Coastal Heritage Trail is being developed cooperatively by the National Park Service, the state of New Jersey, and many organizations working to preserve the state's natural and cultural heritage. The trail continues to grow and new sites are added all the time. Sites are identified by the New Jersey Coastal Heritage Trail Logo. Each region along New Jersey's coast has a specific brochure that describes and directs the traveler to the sites included. The trail is designed for vehicular touring. Five themes define different aspects of coastal life: historic settlement, relaxation and inspiration, maritime history, wildlife migration, and coastal habitats. Information may also be obtained by contacting the New Jersey Division of Travel and Tourism, P.O. Box 820, Trenton, NJ 08625 or by calling 1-800-VISITNJ or 609-777-0885.

New Jersey Community Water Watch -- Barnegat Bay Chapter

c/o Ocean County Vocational-Technical Schools
Toms River Center
1299 Old Freehold Road
Toms River, NJ 08753
Phone: 732-473-3144/ Fax: 732-349-9788
Statewide Office: 732-247-4606

New Jersey Community Water Watch is a project of NJPIRG (New Jersey Public Interest Research Group) Law and Policy Center and 20 environmental and community groups, institutions of higher education, and government agencies. The project is supported through a

grant from AmeriCorps. The group has established an office in the Barnegat Bay watershed and each year two new AmeriCorps members initiate programs, including water testing, organizing community waterway cleanups, streamwalking, and a variety of community education programs. They will come to schools and provide presentations and activities to the students, as well as assist in field trip planning.

New Jersey Conservation Foundation

170 Longview Road
Far Hills, NJ 07931
Phone: 908-234-1225/ Fax: 908-234-1189
www.njconservation.org

The New Jersey Conservation Foundation preserves land and natural resources for the benefit of all. Through acquisition and stewardship, NJCF protects strategic lands; promotes strong land use policies; and forges partnerships to achieve conservation goals. Since 1960, NJCF has protected over 100,000 acres of open space – from the Highlands to the Pine Barrens to the Delaware Bayshore, from farms to forests to urban and suburban parks.

Phone: 1-888-LAND-SAVE
www.njconservation.org

***New Jersey Department of Environmental Protection
Division of Fish and Wildlife***

Office of Information and Education
P.O. Box 400
Trenton, NJ 08625
Phone: 609-292-9450/ Fax: 609-984-1414
www.njfishandwildlife.com

The source for wildlife related information and education for the entire state. Numerous publications are available, including a new fold-out map entitled *Wild Places and Open Spaces*, which identifies the Division's properties and the facilities available at each. Most publications are available for a nominal fee.

Wildlife Education

605 Pequest Road
Oxford, NJ 07863
Phone: 908-637-4125/ Fax: 908-637-6735

Programs and opportunities offered include teacher training workshops in the nationally acclaimed *Project WILD* activity guide, as well as *Homes for Wildlife* and *WILD School Sites* where teachers learn how to improve their school yards for wildlife. The *Becoming an Outdoors Woman* program trains women in a variety of wildlife-related sporting

activities. In addition, numerous resources are available related to wildlife in New Jersey.

Marine and Coastal Education

P.O. Box 418
Port Republic, NJ 08241
Phone: 609-748-4347/ Fax: 609-748-2032

Numerous opportunities for teacher training are provided, such as the annual Coastal Weekend for Teachers, which is held the third weekend of May and, for the more adventurous, overnight training sessions at the Sedge Island facility, located in the Barnegat Bay off the southern end of Island Beach State Park. Additional workshops and in-service training are provided through Project Aquatic WILD. Excellent resources are available related to marine wildlife; especially worthwhile is the Marine Education Resource Guide. Call and ask for “The List” of resources.

***New Jersey Department of Environmental Protection
Division of Parks and Forestry***

P.O. Box 404
Trenton, NJ 08065
Phone: 609-292-2532 / Fax: 609-984-0378
www.state.nj.us/dep/forestry/parknj

Barnegat Lighthouse State Park

P.O. Box 167
Barnegat Light, NJ 08006
Phone: 609-494-2016/ Fax: 609-494-2681
E-mail: blsp@cybercomm.net

Barnegat Lighthouse State Park is situated on the northern tip of Long Beach Island along the Atlantic coastline. The lighthouse is one of New Jersey’s best-known landmarks and a veteran of nearly 100 years of service to seafarers. You can visit the lighthouse and climb to the top; informational displays are found throughout the 217 step (165 foot) climb. The Park also has a self-guided maritime forest trail and a picnic area. The lighthouse is open from 9:00 a.m. to 4:30 p.m., from May through October. There is also an evening program in the summer months for full moon rises on the Atlantic Ocean or sunsets on the Barnegat Bay.

Bass River State Forest

P.O. Box 118
New Gretna, NJ 08224
Phone: 609-296-1114/ Fax: 609-296-5456
E-mail: brsf@dandy.net

Bass River State Forest, in the heart of New Jersey's Pinelands, consists of 18,208 wooded acres. In the 1930's two streams flowing through the park were impounded creating 67-acre Lake Absegami which has become the center of public recreation, water conservation, wildlife and timber management. Within the park, there are facilities for boating and canoeing, swimming, camping, picnicking, hiking, horseback riding, hunting and fishing. A half-mile self-guided trail beginning at the eastern arm of Lake Absegami provides a cross-section of typical pine-oak woods and a small Atlantic white cedar bog. Visitors may be able to observe a variety of birds and animals common to the area.

Brendan T. Byrne State Forest

Shinn's Road (off Route 72), P.O. Box 215
New Lisbon, NJ 08064
Phone: 609-726-1191/ Fax: 609-726-1626

This 34,600-acre forest is located in the heart of New Jersey's Pinelands. The park was originally named "Lebanon State Forest" after the Lebanon Glass Works that was a thriving industry between 1851 and 1867. (Abundant sand and locally-produced charcoal made the manufacture of high quality window glass possible. However, once the timber supply for charcoal making was exhausted, the factory was abandoned and the site of the glassworks was reclaimed by the forest.) The park was renamed in 2002 for ex-governor of New Jersey, Brendan T. Byrne, in recognition of his achievements in preserving the Pinelands for future generations. Over a century ago, cranberry cultivation was also introduced to the area. It continues today on this state-owned land; however, the area under production has decreased due to increased yields per acre. Examples of upland and wetland vegetation abound within the forest. Dense stands of Atlantic white cedar, one of the region's most characteristic trees, are found along the forest's streams. This species reaches its northern limit of commercial importance in the Pinelands. These woods are a favorite nesting place for redheaded woodpeckers. They are also home to pine, corn, and scarlet snakes as well as a variety of plants including orchids, sundews, pitcher plants, pyxie moss, and sand myrtle. Within the park there are facilities for picnicking, camping, hiking, and horseback riding. A visitors' center is on site. The park is the co-sponsor of the Pinelands Institute for Natural and Environmental Studies (P.I.N.E.S.) at Burlington County College (see separate entry in this document), which is a program to provide teachers with science and social studies field trips, in which students study the environment and culture of the New Jersey Pine Barrens.

Double Trouble State Park

P.O. Box 175
Bayville, NJ 08721
Phone: 732-341-6662/ Fax: 732-286-1754

Located on the eastern edge of the New Jersey Pine Barrens, Double Trouble provides a window into Pinelands industry with a complete company town. Its natural resources are characterized by undisturbed woodlands and the pristine waters of Cedar Creek. Visitors to Double Trouble State Park can canoe Cedar Creek or walk the 1½-mile self-guided

trail. A recorded message detailing the cranberry harvest is provided from mid-September by dialing 732-341-6662. Groups can be accommodated only with advance reservations.

Forest Resource Education Center

370 East Veterans Highway

Jackson, NJ 08527

Phone: Interpretive Programs: 732-928-0987

Project Learning Tree: 732-833-9816

Fax: 732-928-4925

www.nj.gov/dep/parksandforests/forest

E-mail: njfsfrec@bellatlantic.net

Located on 660 acres in the headwaters of the Toms River, the Forest Resource Education Center (FREC) is operated by the New Jersey Forest Service. The New Jersey Tree Nursery grows and ships 300,000 seedlings annually for reforestation and conservation projects throughout the state. The Interpretive Center features exhibits and displays relating to the benefits of trees and forestry issues. There are more than 7 miles of trails with 21 informational kiosks, wayside exhibits and "Talking Trees." Four of these trails are self-guided ADA-accessible trails. There are seven Forestry Demonstration Plots that may be accessed from the trail. Interpretive programs are offered free of charge by reservation for school, scout, and civic groups. Two special events, Fall Forestry Festival and Spring Conservation Day are hosted annually at the FREC. The area is open from dawn to dusk for hiking, horseback riding, mountain biking, trout fishing, and nature observation. For educators, the FREC is the primary contact for Project Learning Tree workshops and they are encouraged to borrow a Project Learning Tree trunk filled with hands-on educational materials.

Island Beach State Park

P.O. Box 37

Seaside Park, NJ 08752

Phone: 732-793-0506/ Fax: 732-793-4859

E-mail: ibsp@eclipse.net

Ten miles of undisturbed barrier island provides opportunities for field trips and natural resource interpretation on both a naturalist-led and self-guided capacity. Many groups utilize Island Beach State Park as the ideal location to bring their classes to explore the beach environment. Guided tours and specific programs are also available that focus on the natural and cultural history of the island. Newly constructed trails allow access to the bay side of the island for birding, canoeing, and seining. There are a number of facilities in the park to accommodate groups: the Aeolium Nature Center, a small building in the northern area that houses a wide variety of displays and exhibits, informational publications, and a self-guided nature trail; two bathhouses which afford ample parking, seasonal restroom facilities, and beach access; and an interpretive center at the southern end of the island where visitors can explore the unique natural history and culture of the

island. The Emily DeCamp Herbarium is located here, which provides pressed and labeled plant specimens indicative of the barrier beach environment. Groups must register in advance to visit the park and to use the facilities.

***New Jersey Department of Environmental Protection
Division of Watershed Management***

401 East State Street
P.O. Box 418
Trenton, NJ 08625-0418
Phone: 609-292-2113/Fax: 609-633-1458
www.nj.gov/dep/watershedmgt

The Division of Watershed Management has many tools to assist in your stormwater, nonpoint source pollution or watershed education effort. These include newsletters and brochures for the community at large as well as teacher workshops, free classroom presentation through our New Jersey Watershed Ambassadors Program and free publications for students and teachers. Resources available through the NJDEP Division of Watershed Management include New Jersey Watershed Ambassadors AmeriCorps Program, Project WET (Water Education for Teachers) Teacher Workshops, Watershed Stewards Program, Water Festival Program, Urban Fishing Program, Clean Water Raingers Program and Watershed Watch Volunteer Monitoring Program and Publications.

New Jersey Marine Sciences Consortium

Building #22
Sandy Hook Field Station
Fort Hancock, NJ 07732
Phone: 732-872-1300 ext. 22/ Fax: 732-291-4483
www.njmssc.org

The mission of the New Jersey Marine Sciences Consortium (NJMSC) is to provide leadership in New Jersey's marine affairs by providing programs and services that improve marine science literacy among all citizens. This is accomplished through education programs, sponsored research, and extension services.

The Education Program at the NJMSC offers a wide variety of marine science-based educational opportunities to school children, college students, teachers, families, scout and other informal groups, as well as the general public. From its Sandy Hook location, the NJMSC hosts year-round guided field trips, workshops for educators, scout and family programs, summer and vacation time camps and an annual spring open-house, Ocean Fun Days. Off-site programs include *All Hands On Deck*, a NY/NJ Harbor Estuary field trip program and COAST DAY NJ, *A Celebration of the Sea*, a public outreach event held each fall in Cape May and Long Beach Island. Both of these programs are in partnership with the New Jersey Dept. of Transportation Office of Maritime Resources.

To receive more information about these programs or to be placed on our mailing list please call the NJMSC at 732-872-1300, ext. 19. In addition, please check the NJMSC's website at www.njmssc.org for program descriptions, lesson plans, internship and employment announcements and other educational features.

New Jersey Pinelands Commission

15 Springfield Road, P.O. Box 7
New Lisbon, NJ 08064
Phone: 609-894-7300/ Fax: 609-894-7330
www.nj.gov/pinelands
E-mail: info@njpines.state.nj.us

The Pinelands Commission has a number of resources available to educators. Online resources include: Pinelands Curriculum guides for grades 4-6 and grades 7-8; a Pinelands guide which lists recreational opportunities, historic sites, nature centers, and field trips; Pinelands Speakers Directory; Take Ten; Pinelands fact sheets. The web site also offers younger students the "Kids Korner" where the Jersey Devil can be found with the click of a mouse along with science experiments, coloring, and Pinelands quizzes. The Commission co-sponsors the annual Pinelands Short Course and takes part in other outreach events and educational programs. A Pinelands Information packet is offered through the mail.

New Jersey State Museum

205 West State Street, P.O. Box 530
Trenton, NJ 08625
Phone: 609-292-6310/ Fax: 609-984-1403
www.newjerseystatemuseum.org

The State Museum in Trenton will be closed for renovations until early 2007. Please refer to their website, which will be updated every month and will contain the latest information on educational outreach activities. The museum visit is free and hours are 9 - 5 from Tuesday through Saturday.

Ocean County Audio-Visual Aids Commission

1575 Route 37 West, Unit 13
Toms River, NJ 08755
Phone: 732-244-4199/ Fax: 732-244-9266
www.oceancountymedia.org
E-Mail: ocmedia@comcast.net

The Ocean County Audio-Visual Aids Commission houses an extensive library of videos, slide programs, and cassettes related to numerous environmental topics. They produce and distribute

a comprehensive catalog of the resources that they offer (as well as listing it on their website) and member-schools within the county may borrow materials. Schools have a set delivery day. Ask them for their listing of environmentally related resources. If you are a school district wishing to become a member, please contact James Raylman, Director, at the number listed above.

Ocean County College - Biology Department

College Drive , P.O. Box 2001
Toms River, NJ 08754-2001
Phone: 732-255-4000/ Fax: 732-255-0444
www.ocean.edu

The staff and students involved with the Ocean County College Biology courses regularly utilize natural areas within the watershed for their course work and field studies. This familiarity makes them a wonderful resource for regionally specific information regarding the flora and fauna of the Barnegat Bay region. Also of particular appeal is their internship programs which provide the opportunity for undergraduate students to work and experience natural history and environmental research projects in a meaningful way.

Ocean County Government

Mailing Address:

P.O. Box 2191
Toms River, NJ 08754-2191
Phone: 732-244-2121/ Fax: 732-506-5000
www.oceancountygov.com

Ask for the Government Directory for Ocean County which lists numerous resources on both the County and municipal level. This handy little booklet is a “must have” for anyone wishing to investigate and learn about the programs and facilities within Ocean County and the Barnegat Bay Watershed. The Directory also contains sections listing local Chambers of Commerce, business associations, and media covering the area. Phone numbers, contacts, and addresses are listed for all entries.

Department of Corrections

120 Hooper Avenue, P.O. Box 2191
Toms River, NJ 08754
Phone: 732-929-2117 or 732-506-5002/ Fax: 732-506-5098

Ask for Sergeant Spina -- *Sam the Tuna* environmental programs for children teaches about nonpoint source pollution and how to prevent it.

Department of Planning

129 Hooper Avenue, P.O. Box 2191
Toms River, NJ 08754
Phone: 732-929-2054/ Fax:732-244-8396

The County agency whose responsibilities include regional land-use planning. The department is involved in a diverse range of activities from environmental protection to economic development. Specifically, the department can assist municipalities and the public on issues related to transportation, water supply, wastewater management, housing assistance programs, natural land protection, aerial photographs, and demographic information for Ocean County.

Department of Public Affairs

129 Hooper Avenue, P.O. Box 2191
Toms River, NJ 08754
Phone: 732-929-2000
For an Ocean County Tourism Guide call: 1-800-ENJOY-33

Division of Public Information
Phone: 732-929-2000

Division of the County Connection/County Connection Express
Phone: 732-288-7777

This county agency provides public information services for the Board of Chosen Freeholders and those county government offices which do not have their own public information officers. Hosts a public information center in the County Administration Building which distributes information primarily of interest to tourists, but also will include public outreach environmental educational literature. Coordinates 25 mini-information centers around the county which distribute public education materials of interest to tourists.

The County Connection is an outreach of Ocean County government, located in the Ocean County Mall, which operates during mall hours, including evenings, holidays and weekends. The County Connection Express is a mobile van making scheduled stops at various locations around the county offering most of the services of the County Connection. Both will offer environmental public education materials as space permits.

Department of Solid Waste Management

129 Hooper Avenue, P.O. Box 2191
Toms River, NJ 08754
Hotline: 1-800-55-RECYCLE
Phone: 732-506-5047/ Fax: 732-244-8396
www.co.ocean.nj.us/recycle

Contact them for information and materials related to composting and recycling.

Ocean County Prosecutor's Office

119 Hooper Avenue
Toms River, NJ 08754
Main Phone: 732-929-2027/ Fax: 732-929-2145

Hotline number: 1-888-314-OCPO (6276)

Contact the Prosecutor's Office main telephone number or Hotline number to report possible crimes against the environment involving illegal solid waste dumping, water or land pollution.

Contact the Prosecutor's Website for additional information:

www.oceancountyprosecutor.com

Ocean County Health Department

175 Sunset Avenue, P.O. Box 2191
Toms River, NJ 08754
Phone: 732-341-9700 or 1-800-342-9738/ Fax: 732-286-1495
www.ochd.org

The Ocean County Health Department is committed to promoting healthy lifestyles and a clean and safe environment. There are a variety of environmental and educational programs and information available. An opportunity to monitor water quality is also available.

Ocean County Historical Society

26 Hadley Avenue , P.O. Box 2191
Toms River, NJ 08754
Phone: 732-341-1880/ Fax: 732-341-4372
www.oceancountyhistory.org
E-mail: oceancounty.history@verizon.net

Numerous publications are available regarding specific historical descriptions and details from many people and of places throughout Ocean County and the Barnegat Bay watershed region. Call them for a listing of their publications. They operate a small museum which has limited visiting hours on Tuesdays and Thursdays from 1 pm – 4 pm, the first Friday of every month from 5 pm to 9 pm, and Saturday from 10 am to 2 pm. They also house a library and research center. Any group tours and programs must be arranged in advance.

Other Museums

Barnegat Heritage Village
575 East Bay Avenue
P.O. Box 381
Barnegat, NJ 08005

609-698-5284
June – September
Sat.: 1 pm – 4 pm

www.barnegathistoricalsoc.com

Barnegat Light Museum

5th & Central Avenues

P.O. Box 386

Barnegat Light, NJ 08008

www.nealcomm.nonprof/blhist.htm

E-mail: njfsfrec@bellatlantic.net

609-494-8578

June – September

Sat. & Sun.: 2 pm – 5 pm

July & August

Daily: 2 pm – 4 pm

Bay Head Historical Society Museum

P.O. Box 127

Bridge and Bay Avenues

Bay Head, NJ 08742

www.co.ocean.nj.us/museums/BayHead/about.htm

732-892-2475

Seasonal

Sun.: 12 Noon – 2 pm &

by appointment

Berkeley Township Historical Museum

630 Route 9, Bayville

P.O. Box 303

Bayville, NJ 08721

E-mail: berkeleytownshiphs@yahoo.com

732-269-9527

Mid-June – Mid-September

Wed.: 6 pm – 8 pm; Sun.: 2 pm – 4 pm

or by appointment

The Colonel Charles Waterhouse Historical Museum

17 Washington Street

Toms River, NJ 08753

www.usmcartist.com

E-mail: waterhousemuseum@comcast.net

732-818-9040

Thurs. – Sat.: 12 Noon – 4 pm

Other hours and day available
upon request.

Havens Homestead Museum

521 Herbertsville Road

P.O. Box 160

Brick, NJ 08724

www.co.ocean.nj.us/museums/brick/about.htm

732-785-2500

May - October

Sat.: 10 am – 12 Noon, Sun.: Noon – 2 pm

Island Heights Cottage Museum

105 Simpson Avenue

P.O. Box 670

Island Heights, NJ 08732

E-mail: ihhistory@aol.com

732-929-2815

Call for hours

Giffordtown Schoolhouse Museum

Leitz Blvd. & Wisteria Lane

P.O. Box 43

Tuckerton, NJ 08087

www.co.ocean.nj.us/museums/Tuckerton/about.htm

609-294-1547

June - September

Wed.: 10 am – 4 pm, Sat.: 2 pm – 4 pm

Lacey Historical Society Old Schoolhouse Museum

126 South Main Street (Route 9)
P.O. Box 412
Forked River, NJ 08731
www.lhs.laceytownship.net/
E-mail: editton@shorenetworks.com

609-971-0467
June 15 – Labor Day (or by appointment)
Mon., Wed., Fri.: 1 pm – 3 pm,
Sat.: 10 am – 12 Noon

Lakehurst Historical Museum

300 Center Street
Lakehurst, NJ 08733-2825
www.co.ocean.nj.us/museums/Lakehurst/about.htm

732-657-7209
Wed. & Sun.: 12 Noon – 3 pm

Lakewood Heritage Museum

655 Princeton Avenue
Lakewood, NJ 08701

732-364-2500, ext. 5283
Call for hours

The Little Red Schoolhouse Museum of the Historical Society of Waretown

Wells Mills Road
P.O. Box 138
Waretown, NJ
E-mail: cricket40@att.net

609-693-3304
Call for hours

Long Beach Island Historical Museum

Engleside & Beach Avenues
P.O. Box 1222
Beach Haven, NJ 08008
www.lbimuseum.org
E-mail: info@lbimuseum.org

609-492-0700
Memorial Day – Labor Day
Mon., Wed., Thurs.: 2 pm – 4 pm
Tue. & Fri.: 10 am – 4 pm & 7 pm to 9 pm
Sat.: 12 Noon – 4 pm

Navy Lakehurst Historical Society Information Center

Route 547, NAES
P.O. Box 328
Lakehurst, NJ 08733-0328
www.nlhs.com
E-mail: info@nlhs.com

For Tour: 732-818-7500
Pre-register for tour of center
and Historic Hangar One (two weeks notice)

New Egypt Historical Museum

125 Evergreen Road
P.O. Box 295
New Egypt, NJ 08533
www.co.ocean.nj.us/museums/NewEgypt/about.htm

609-758-8111
Sun.: 1 pm – 4 pm
Wed.: 11 am – 1 pm

New Jersey Museum of Boating

1800 Bay Avenue, Building #12
Point Pleasant, NJ 08742
www.njmb.org

732-859-4767
Daily: 10 am – 4 pm

E-mail: info@woodenboatsnj.com

Ocean County Historical Society Museum

26 Hadley Avenue

P.O. Box 2121

Toms River, NJ 08754-2191

www.oceancountyhistory.org

E-mail: oceancounty.history@verizon.net

732-341-1880

Fax: 732-341-4372

Tue. – Thurs.: 1 pm – 4 pm

Sat.: 10 am – 4 pm

Ocean Gate Historical Museum

Cape May & Asbury Avenues

P.O. Box 895

Ocean Gate, NJ 08740-0895

www.co.ocean.nj.us/museums/OceanGate/about.htm

732-269-8040

June through September

Sat.: 10 am to 12 Noon

Wed.: 6:30 pm to 8 pm or by appointment

Jackson Township Cultural & Heritage Commission:

Old Town Hall Replica

69 West Veterans Highway, Route 528

Jackson, NJ 08757

Prosperatown Schoolhouse Museum/Jackson

95 West Veterans Highway

Route 528

Jackson, NJ 08757

www.co.ocean.nj.us/museums/Prosperatown/about.htm

By Appointment

732-928-1200, ext. 200

Year-Round

Mon. – Fri.: 9 am to 5 pm

Point Pleasant Historical Society Museum

416 New Jersey Avenue

P.O. Box 1273

Point Pleasant Beach, NJ 08742

www.pointpleasanthistory.com

E-mail: ppbhist@att.net

732-892-3091

2nd Thurs.: 1 pm – 4 pm

or by appointment

Stafford Township Historical Society, Inc.

50 West Bay Avenue

P.O. Box 1097

Manahawkin, NJ 08050

www.telecottage.com/staffordhis

E-mail: philhart@shorenetworks.com

609-597-5947

May – September, Wed. – Sun.: 10 am – 4 pm

or by appointment

Open all year on Sundays 1 pm – 4 pm

Toms River Seaport Society & Maritime Museum

78 East Water Street

P.O. Box 1111

Toms River, NJ 08754-1111

Annex: Charles & Anna Hankins Museum

504 Grand Central Avenue

Lavallette, NJ

732-349-9209

Tue., Thurs., & Sat.: 10 am – 2 pm

www.tomsriverseaport.com
E-mail: tomsriversmm@yahoo.com

Tuckerton Seaport
120 West Main Street
P.O. Box 52
Tuckerton, NJ 08087

www.tuckertonseaport.org
E-mail: info@tuckertonseaport.org

609-296-8868
Open Seasonally
Every day: 10 am – 5 pm

Ocean County Cultural & Heritage Commission

101 Hooper Avenue, P.O. Box 2191
Toms River, NJ 08754
Phone: 732-929-4779/ Fax: 732-288-7871
www.co.ocean.nj.us/cultural
E-mail: culturalheritage@co.ocean.nj.us

* Call the Ocean County Department of Public Affairs at 732-929-2138 and ask them for a copy of the "Ocean County Museums Historical Trail – Time Traveler Passport," which lists mailing addresses, hours of operation, special features and descriptions, as well as fees for all of the above museums.

Ocean County Library

The Ocean County Library has 20 library facilities to meet the informational needs of the entire community.

101 Washington Street
Toms River, NJ 08753
Phone: 732-349-6200 or 609-971-0514/ Fax: 732-341-6698
www.oceancounty.lib.nj.us

Library Headquarters -- Bishop Building
New Jersey Reference Collection
Phone: 732-349-6200, ext. 859

The Ocean County Library owns many books and documents on the ecology of Barnegat Bay, the history of New Jersey and Ocean County, as well as atlases and aerial maps of Ocean County. The Toms River Branch maintains an extensive newspaper clipping file on many topics of local interest, and receives documents which various community agencies make available for public review.

The library also subscribes to several online databases where you can find full-text magazine and newspaper articles on virtually any topic. Reference service is available at the library, by phone, and by e-mail at question@oceancounty.lib.nj.us.

Branches of the Ocean County Library

Barnegat

112 Burr Street, Barnegat 08005

	609-698-3331
Bay Head	136 Meadow Avenue, Bay Head, 08742 732-892-0662
Beachwood	126 Beachwood Boulevard, Beachwood 08722 732-244-4573
Berkeley	30 Station Road, Bayville 08721 732-269-2144
Brick	301 Chambers Bridge Road, Brick 08723 732-477-4513
Island Heights	121 Central Avenue, Island Heights 08732 732-270-6266
Jackson	2 Jackson Drive, Jackson 08527 732-928-4400
Lacey	10 East Lacey Road, Forked River 08731 609-693-8566
Lakewood	301 Lexington Avenue, Lakewood 08701 732-363-1435
Little Egg Harbor	290 Mathistown Road, Little Egg Harbor 08087 609-294-1197
Long Beach Island	217 South Central Avenue, Surf City 08008 609-494-2480
Manchester	21 Colonial Drive, Manchester 08759 732-657-7600
Plumsted	119 Evergreen Road, New Egypt 08533 609-758-7888
Pt. Pleasant Boro	834 Beaver Dam Road, Pt. Pleasant 08742 732-295-1555
Pt. Pleasant Beach	710 Mclean Avenue, Pt. Pleasant Beach 08742 732-892-4575
Stafford	129 North Main Street, Manahawkin 08050 609-597-3381

Tuckerton 380 Bay Avenue, Tuckerton 08087
609-269-1470

Upper Shores 112 Jersey City Avenue, Lavallette 08735
732-793-3996

Waretown 112 Main Street, Waretown 08758
609-693-5133

Ocean County Parks and Recreation

The Ocean County Parks Department has 23 different parks and facilities throughout the county and hosts a huge variety of programs and presentations throughout the year in different locations. Although the parks listed below have educational facilities and naturalist staff, other programs are offered throughout the park system and the County. Special arrangements can be made to use other parks within the system for programs.

Administrative Offices

1198 Bandon Road
Toms River, NJ 08753
For Newsletter and General Information:
Phone: 732-506-9090/ Fax: 732-270-9464
Or call toll-free 1-877-OCPARKS
www.oceancountygov.com/county/parks

Situated along the sparkling Silver Bay, this 35-acre site is the home of the Ocean County Parks and Recreation Administrative Offices. Here, the administrative staff plans and supervises the numerous activities annually sponsored by the Ocean County Parks and Recreation Department. These activities include recreational and educational programs, a summer concert series, environmental studies, and trips to assorted events and locations. Call or stop in for more information on your Ocean County Parks System.

Cattus Island County Park

1170 Cattus Island Boulevard
Toms River, NJ 08753
Phone: 732-270-6960/ Fax: 732-831-0406

Cattus Island Park is a peninsula that juts out into the Barnegat Bay and divides Silver Bay. The 500-acre park is composed primarily of salt marsh where numerous hummocks (higher ground with trees) dot the wetland landscape. Freshwater bogs and cedar swamps may also be found. Open from 10 to 4 daily, the Cooper Environmental Center boasts an exhibit room that continually changes on a seasonal level. Slide presentations, a library of natural history and related literature, and an observation deck are available. Groups planning on using the facility are requested to register in advance. A variety of

trails are available, including a 500-foot boardwalk, a tree identification loop, and six miles of marked trails. Interpretive signs are currently being installed to offer habitat and wildlife information to the park visitor. There are also picnic and playground areas. Staff conduct many hikes, bike trips, canoe expeditions, and van trips throughout the county.

Eno's Pond County Park

330 East Lacey Road

Forked River, NJ 08731

Please contact Parks Administration Office at 1-877-OCPARKS for information.

Eno's Pond County Park contains 28 acres and abuts the Edwin B. Forsythe National Wildlife Refuge, Lacey Township Extension. In cooperation with federal officials, Ocean County park naturalists are developing nature trails which traverse both properties. One of these trails is specially designed to be wheelchair accessible. On these trails, many specimen flora and fauna can be sighted, as well as a variety of birds and mammals such as wood ducks, mallards, egrets, great blue herons, raccoons, deer and even osprey. There are also restroom facilities and many picnic areas available. Special arrangements for use of the park should be made through Park Headquarters or, to schedule a naturalist-led program, please call either Cattus Island or Wells Mills.

Wells Mills County Park

905 Wells Mills Road (Route 532)

Waretown, NJ 08758

Phone: 609-971-3085/ Fax: 609-971-9540

This 900-acre park is open daily from 8 am to sunset. The nature center features an observation deck and an exhibit area and is open from 10 am to 4 pm daily. Sixteen miles of marked nature trails lead the visitor through a variety of Pine Barren habitats, including pine-oak forests, Atlantic white cedar swamps, freshwater bogs, and maple gum swamps. Canoes can be rented and boating and fishing are permitted on the 34-acre Wells Mills Lake. There is also a nature trail for the visually impaired.

These educational centers house a variety of exhibits which highlight our watershed's environments and its indigenous species. Guides operating from these two interpretive centers provide a variety of educational programming that meets the needs of both the novice and expert naturalist or outdoor recreation buff. Many groups visiting these facilities tour the fascinating exhibits, see topical slide shows, and enjoy guided nature walks. Subject to available staff and time, any nature program or activity can be scheduled for a school group. All groups planning to visit the County's parks must make advance arrangements. Registering nine months in advance will usually prevent disappointment.

Other County Park Properties

Gull Island County Conservation Area - Broadway, Point Pleasant Beach

This small park is adjacent to a 48-acre island-like conservation area on the Manasquan River.

Beaver Dam Creek County Park - Bridge Avenue, Point Pleasant

A boardwalk through tidal wetlands, picnic areas, six acres of playing fields, and two tennis courts are available for everyone's enjoyment.

Ocean County Golf Course at Forge Pond - Chambers Bridge Road, Brick Township
Currently planning a nature trail to transverse the wooded area surrounding the green and leading to the edge of Forge Pond.

Metedeconk River County Conservation Area - Lakewood and Brick Townships

Although primarily a conservation site, this 318-acre area is also excellent for canoeing during peak tides.

Shenandoah County Sports Field Complex - Route 88 (Ocean Avenue), Lakewood
Eighty-four acres of open playing fields await the visitor to this popular complex, which features six soccer fields, two softball fields, bike paths, picnic areas, and a playground. Adjoins Lake Shenandoah County Park.

Lake Shenandoah County Park - Route 88 (Ocean Avenue), Lakewood

The 100-acre lake at the park features trout-stocked waters, large piers, and an on-site boat house and bait shop.

Ocean County Park - Route 88 (Ocean Avenue), Lakewood

Ocean County Park, the flagship of the County Park System and one of its most popular parks, was originally part of financier John D. Rockefeller's vacation estate. This spacious park, which was acquired by the county in 1941, offers playing fields, tennis courts, a sandy bathing beach, and much more.

Patriots' County Park - Bowman Road, Jackson Township

This 219-acre sports field complex features soccer and softball fields, shuffleboard, horseshoe pits, bocce, basketball courts, fitness trails, playgrounds, and picnic areas.

Robert J. Miller County Airpark - Route 530 (Airport Road), Berkeley Township

The Airpark is home to the famous Ocean County fair held each July. In addition to the fairgrounds, the Park includes playgrounds, picnic areas, and a small, privately managed airport.

E. B. Leone County Conservation Area - Silver Bay, Dover Township

This county property covers 45 acres of pristine wetlands, which can be viewed from one of the pontoon boat tours launched from Cattus Island County Park.

Riverfront Landing County Park - Water Street, Toms River

This walk-through park features a scenic view of the Toms River.

Mill Creek County Park - Mill Creek Road & Chelsea Drive, Berkeley Township
Tree-lined trails and three playgrounds geared toward children of different ages are among the offerings at this park.

Florence T. Allen County Conservation Area – Chelsea Avenue, Berkeley Township
This conservation area consists of 45 acres of cedar swamp and uplands bordering Mill Creek. These wetlands protect Mill Creek as it flows into the Toms River.

Jake’s Branch County Park (Future Site)

The Pinelands habitat will be featured at the soon to be developed Jake’s Branch County Park. A nature center, hiking and nature trails will complement other active recreation possibilities.

Berkeley Island County Park - Brennan Concourse, Berkeley Township
This park boasts a sandy bathing beach protected by lifeguards on the Barnegat Bay, as well as fishing, crabbing and a panoramic view.

A. Paul King County Park - Routes 72 & 9, Stafford Township
Situated on lovely Manahawkin Lake, this County park features many recreational possibilities, including beach volleyball, horseshoes, a large picnic area, playground, and a sandy swimming beach.

Freedom Fields County Park – Route 539, Little Egg Harbor Township
Active recreation will be the theme at this new park site. The Sports Field Complex is conveniently located on Route 539. Soccer, softball, and baseball fields have been developed to meet the needs of the expanding population of southern Ocean County.

Stanley H. “Tip” Seaman County Park – 120 Lakeside Drive, Tuckerton
Home of the nationally-acclaimed Ocean County Decoy and Gunning Show, this 22-acre park also features a lighted softball field and tennis courts, basketball courts, bocce, horseshoes, and much more. Located on the banks of Lake Pohatcong and across the street from the Tuckerton Seaport.

Ocean County Soil Conservation District

714 Lacey Road
Forked River, NJ 08731
Phone: 609-971-7002/ Fax: 609-971-3391
www.ocscd.org
E-mail: info@ocscd.org

The Ocean County Soil Conservation District (OCSCD) provides conservation assistance through a variety of programs for builders, homeowners, farmers, resource professionals, public officials, and educators. With an extensive education program accommodating all ages and interests, OCSCD strives to promote awareness of natural resources and the importance of

environmental stewardship within the Barnegat Bay watershed. The agency publishes *The Tutor* (a newsletter for educators), sponsors annual poster, bumper-sticker and photo contests, and hosts teacher workshops such as Project Learning Tree, WET, WILD and WILD School Sites. OCSCD's "Outdoor Classrooms" program is one of the best in New Jersey, providing area schools with technical and financial assistance. OCSCD published a regionally specific activity guide entitled "Discovering Barnegat Bay" which includes 40 lesson plans unique to the region. For more information on the guidebook, see the section on Curricular Materials. Updated workshop schedules can be found at the website. Each year in the spring, OCSCD sponsors the Environmental Educators Roundtable in partnership with numerous area organizations and agencies. An inventory of educational brochures and publications is maintained by OCSCD and is available to the public.

Ocean County Utilities Authority

501 Hickory Lane
Bayville, NJ 08721
Phone: 732-269-4500 x 8226/ Fax: 732-237-2193
www.ocua.com

The Ocean County Utilities Authority (OCUA) has an active public education program. OCUA is an important cog in the environmental protection wheel. OCUA treats and recycles the wastewater generated by the citizens and industries of Ocean and Southwestern Monmouth County. The wastewater residuals are stabilized and converted to an organic fertilizer marketed under the trade name "Oceangro." OCUA encourages tours of their facilities which are located in Brick, Bayville, and Manahawkin. They also have speakers who will come to schools with slides and/or videos about wastewater reclamation and the hydrologic cycle.

Other Water Treatment facilities which may provide local assistance to teachers include:

Barnegat Township Utility	900 West Bay Avenue, Barnegat 08005 609-698-6185
Beachwood Sewerage Authority	1133 Beach Avenue, Beachwood 08722 732-240-2608
Berkeley Township Sewerage Authority	255 Atlantic City Boulevard, Bayville 08721 732-269-1093
Borough of Island Heights	PO Box AH, Island Heights 08732 732-270-6424
Borough of Lakehurst	5 Union Avenue, Lakehurst 08733 732-657-9797
Borough of Lavallette	PO Box 67, Lavallette 08735 732-793-7766

Borough of Ocean Gate Sewerage Dept.	151 East Longport Avenue, Ocean Gate 08740 732-269-3233
Borough of Pine Beach	599 Pennsylvania Avenue, Pine Beach 08741 732-349-6425
Borough of Seaside Heights	PO Box 38, Seaside Heights 08751 732-793-9100
Borough of Seaside Park	1201 Barnegat Avenue, Seaside Park 08752 732-793-0014
Crestwood Village	55 Schoolhouse Road, Whiting 08759 732-350-1211
Dover MUA	340 West Water Street, Toms River 08753 732-240-3500
Lacey MUA	PO Box 204, Forked River 08731 609-693-8188
Manchester Township Utility Dept.	One Colonial Drive, Lakehurst 08733 732-914-1200
Ocean Township MUA	PO Box G, Waretown 08758 609-693-3668
South Toms River Sewerage Authority	148 Mill Street, South Toms River 08757 732-929-2154
Borough of Bay Head	PO Box 248, Bay Head 08742 732-899-6782
Borough of Point Pleasant	2233 Bridge Avenue, Point Pleasant 08742 732-892-1287
Borough of Pt. Pleasant Beach	416 New Jersey Avenue, Pt. Pleasant Beach 08742 732-892-2550
Brick MUA	1551 Highway 88 West, Brick 08724 732-458-7000
Jackson Township MUA	135 Manhattan Street, Jackson 08527 732-928-1414
Lakewood Township MUA	390 New Hampshire Avenue, Lakewood 08701

732-363-4422

New Jersey American Water Co.	100 James Street, Lakewood 08701 732-886-8706
Beach Haven Sewerage Authority	PO Box 1320, Beach Haven 08008 609-492-4375
Borough of Barnegat Light	10 West 10 th Street, Barnegat Light 08006 609-494-6100
Borough of Harvey Cedars	7606 Long Beach Boulevard, Harvey Cedars 08008 609-494-6905
Borough of Ship Bottom	1621 Long Beach Boulevard, Ship Bottom 08008 609-494-8472
Borough of Surf City	813 Long Beach Boulevard, Surf City 08008 609-494-6237
Eagleswood Township	146 Division Street, West Creek 08092 609-296-6291
Little Egg Harbor MUA	965 Radio Road, Little Egg Harbor 08087 609-296-1168
Long Beach Township	6805 Long Beach Boulevard, Brant Beach 08008 609-361-1000
Stafford MUA	24 Pine Street, Manahawkin 08050 609-597-8600
Tuckerton Water and Sewer	140 East Main Street, Tuckerton 08087 609-296-9222

Ocean County Vocational Technical School

Admissions Office:

1299 Old Freehold Road

Toms River, NJ 08752

Phone: 732-473-3122/ Fax: 732-240-7155

MATES (Marine Academy of

Technology and Environmental Science

Phone: 609-978-8439/Fax: 609-978-8540

www.ocvts.org

The mission of the Ocean County Vocational Technical School system is to prepare students for job placement or further education leading to successful employment. We develop partnerships with affiliated schools, parents, business, industry, and community agencies to create and deliver opportunities for students to participate in quality academic and occupational programs with

support services. These programs and services are designed to meet the needs of high school students and adult learners as well as the requirements of employers, colleges, technical schools, and the community. Our most important products are quality graduates and our most important service is to provide them with critical thinking skills for a lifetime. The MATES program is a unique opportunity to the serious student with interest in any marine or environmentally related field. It is an intensive program which challenges and engages the students. Much of their field study takes place throughout the entire Barnegat Bay watershed. The staff and students are wonderful resources and are always looking to become involved in outreach and educational efforts.

Ocean Institute at Brookdale Community College

Box 533

Fort Hancock, NJ 07732

Phone: 732-224-2435/ Fax: 732-872-1100

www.brookdalecc.edu/staff/sandyhook/sandyhook/index.html

E-mail: sandyhook@brookdalecc.edu

The goal of the Ocean Institute is to provide education in the areas of oceanography, marine science, barrier beach ecology and dynamics, wetlands, estuaries, weather and global change to schools throughout New Jersey. Teacher training sessions on a variety of coastal topics are also offered throughout the year. The Institute is involved in community outreach and education, including beach cleanups and water quality monitoring. The Institute also offers oceanographic boat trips on the Raritan Bay, and provides training through the National Audubon Society's Saving Wetlands - New Jersey Guide, Brookdale's ESTUARIES and SANDY HOOK Guides. The Institute offers presentations on topics such as water testing, aquatic life and adaptations, wetlands and weather. Their Ocean Adventures is a 1-2 week long summer camp for 4th-8th grade students. There are several sessions throughout the summer which focus on a variety of topics. Call for registration information.

Also, for their great web pages on the taxonomy and marine life of Sandy Hook and elsewhere, check out <http://www.brookdalecc.edu/staff/sandyhook/taxonomy/index.htm>

Ocean Nature & Conservation Society

21 Winding River Drive

Toms River, NJ 08755-5122

Phone: 732-244-5722/ Fax: 732-505-8915

The Ocean Nature and Conservation Society is a local organization that has been active in protecting and celebrating the environments and natural areas of the county for many years. Monthly programs featuring experts on numerous environmental topics are open to the public. The group holds many field trips throughout the year and also hosts the annual Endangered Species Art Contest for students in Ocean County.

Oyster Creek Generating Station

P.O. Box 388
Route 9 South
Forked River, NJ 08008
Phone: 609-971-2180/Fax: 609-693-4930
www.oystercreeklr.com and www.exeloncorp.com
E-mail: gina.scala@exeloncorp.com

Oyster Creek's Speaker's Bureau is available for presentations on a variety of topics, including energy use and power supply. Appointments can be made by calling the number above.

Pinelands Institute for Natural and Environmental Studies (P.I.N.E.S.)

Burlington County College
120-13 Whitesbog Road
Browns Mills, NJ 08015
Phone: 609-893-1765

Our program operates in cooperation with Brendan T. Byrne State Forest to provide teachers with science and social studies field trips in which students study the environment and culture of the New Jersey Pine Barrens. On-site field trips include: The New Jersey Cranberry Industry, Life in a Company Town, Water Quality, Fire Ecology, Pine Barrens Ecology, Lenape Living in the Pines, Ecology of Freshwater Wetlands, Autumn in the Pines, Spring Adventure, and Pond Ecology. In-school presentations include: Pine Barrens Ecology Lab, Fire Ecology Lab, and Lenape Living in the Pine Barrens.

Pinelands Preservation Alliance

17 Pemberton Road
Southampton, NJ 08088
Phone: 609-859-8860/ Fax: 609-859-8894
www.pinelandsalliance.org

The Pinelands Preservation Alliance (PPA) is a nonprofit organization dedicated to protecting the 1.1 million acres of New Jersey's Pinelands National Reserve. The Alliance accomplishes this through education, grassroots organizing within the 56 municipalities of the Pinelands and monitoring activities of the Pinelands Commission. PPA supports implementation of the Pinelands Comprehensive Management Plan and advocates its region-wide protection strategy. PPA offers a week-long summer institute for middle and high school teachers and develops curriculum for integrating Pinelands themes into science and social studies teaching. PPA also offers field trips and slide presentations through its Speakers Bureau. PPA's newsletter *Inside the Pinelands* is published six times each year and includes articles and updates pertinent to the region. Call to find out more or to schedule a presentation.

Rutgers Cooperative Extension of Ocean County

1623 Whitesville Road
Toms River, NJ 08755-1199
Phone: 732-349-1246/ Fax: 732-505-8941
www.rce.rutgers.edu

Rutgers Cooperative Research and Extension provides educational materials and non-biased, research-based information to homeowners, commercial horticulturalists, growers and others. Information is available on topics such as pest control and alternatives to pesticides, composting, lawn maintenance, soil testing, and low maintenance landscaping to name a few. In addition to many other projects, Cooperative Extension also provides a speakers' bureau, free educational information, and coordinates symposiums. Their "Home-A-Syst" book for the Barnegat Bay Watershed is an excellent resource that, although geared specifically to the homeowner, applies to individual environmental behaviors and activities. The Master Gardener's Program is part of the volunteer and community services that Cooperative Extension offers. Also the home of the 4-H Youth Clubs for the county -- call 732-349-1227. Watershed Management Curriculum for junior high school students which emphasizes the Barnegat Bay watershed and includes a video is available.

Toms River Avian Care

1916 Kenilworth Court
Toms River, NJ 08753
Phone: 732-255-9270/ Fax: 732-506-9804

Toms River Avian Care is a wildlife rehabilitation center licensed by both the state and federal government to treat all species of wild birds. Each year over 2000 birds are admitted to the center. Educational programs are available on most aspects of wildlife and conservation. Programs are primarily scheduled for evenings and weekends. Toms River Avian Care is a nonprofit organization owned and operated by Karen and Don Bonica.

Toms River Seaport Society and Maritime Museum

78 Water Street, Box 1111
Toms River, NJ 08754
Phone: 732-349-9209/ Fax: 732-349-2498
www.tomsriverseaport.com

The Toms River Seaport Society and Maritime Museum is a nonprofit organization that focuses on preserving and educating the public about our maritime history. The Society's headquarters and Maritime Museum occupies the 1868 Carriage House which served the estate of Joseph Francis, developer of the "Lifecar" which was used in the Lifesaving Service. The Society operates a small museum located on Water Street in Toms River which provides displays of many artifacts associated with the marine history and development of the area, historic boats, models, a maritime library, and a ship's store. There is also a Boat Workshop for boat

restorations, building, educational programs and seminars on topics such as navigation, marine carpentry, wood finishing, wood carving, etc. Please call for their hours of operation.

The Trust for Public Land

New Jersey Field Office
20 Community Place, 2nd Floor
Morristown, NJ 07960
Phone: 973-292-1100/ Fax: 973-292-6272
www.tpl.org

The Trust for Public Land (TPL) is a national nonprofit land conservation organization conserving land for people. TPL has been actively involved in the Barnegat Bay watershed since the mid-1990s and has added land to the Edwin B. Forsythe National Wildlife Refuge, the Sedge Island Wildlife Management Area, and Ocean County Natural Lands Trust, among other public entities. TPL's preservation efforts are guided, in part, by their 1995 study *The Century Plan*, which identified 100 open space parcels vital to protecting water quality, wildlife habitat, and public recreational opportunities in the bay watershed. TPL also completed an EPA-funded study in the Metedeconk watershed, to help develop innovative strategies for source water protection. In addition, TPL administers the Barnegat Bay Environmental Grant Fund, an annual mini-grant program for environmental projects that directly benefit the bay watershed.

Tuckerton Seaport, A Project of the Barnegat Bay Decoy and Baymen's Museum

Mailing Address:
P.O. Box 52
120 W. Main Street
Tuckerton, NJ 08087
Phone: 609-296-8868/ Fax: 609-296-5810
www.tuckertonseaport.org

Museum Location:
Route 9 across from Lake Pohatcong

Tuckerton Seaport is a nonprofit organization dedicated to preserving, presenting and interpreting the rich maritime history, artistry, heritage and environment of the Jersey Shore, and the unique contributions of its baymen. Opened in 2000, this open-air maritime museum honors Jersey Shore traditions with recreated and historic buildings, exhibits, demonstrations of traditional folk arts, guided tours and public programs, special events, professional development workshops, folk art classes, and more. The site also includes restored salt marshes and a coastal forest trail. Tuckerton Seaport is a significant resource in the state of New Jersey for regionally specific information and resources related to the natural and cultural history of Barnegat Bay. Teacher resource packets are available on-line. Partners include the Jacques Cousteau National Estuarine Research Reserve administered by Rutgers University, Richard Stockton State College, and the New Jersey Division of Fish and Wildlife.

United States Environmental Protection Agency

Regional Office

290 Broadway

New York, NY 10007

Phone: 212-637-3000

www.epa.gov/docs/Region2

The Environmental Protection Agency (EPA) has a new *Adopt Your Watershed* campaign and has created a nationwide catalog of organizations active in local watershed issues. It is available on the World Wide Web at <http://www.epa.gov/adopt>. There are links to numerous other EPA sponsored websites offered through the Office of Wetlands, Oceans and Watersheds www.epa.gov/OWOW. The EPA has numerous publications available on specific environmental topics. It is probably best to visit their website address and search for specific information and resources. This could also be an assignment for students and the search can be a learning experience as well. Annual educational grants available – application deadline is usually in November.

United States Fish and Wildlife Service

Ecological Services, New Jersey Field Office

927 North Main Street, Building D

Pleasantville, NJ 08232

Phone: 609-646-9310/ Fax: 609-646-0352

<http://njfieldoffice.fws.gov>

The New Jersey Field Office (NJFO), located in Pleasantville, Atlantic County, New Jersey implements the U.S. Fish and Wildlife Service's Ecological Services program throughout New Jersey and its territorial waters. The Service's mission is "working with others to conserve, protect and enhance fish, wildlife, and plants and their habitats for the continuing benefit of the American People."

The NJFO's responsibilities chiefly focus on the stewardship of federal trust resources, which include federally listed species, migratory birds and fish, certain marine mammals, and federal lands including National Wildlife Refuges.

Our goal is to sustain and safeguard federal trust fish and wildlife resources for present and future generations. We implement several program activities to accomplish this goal. The NJFO's *Threatened and Endangered Species Program* provides information consultations and technical assistance for the protection of federally listed species in New Jersey as well as formal consultation on the effects of beach nourishments and shoreline stabilization. The goal of this program is the recovery of federally listed species. The *Federal Activities Program* works in an advisory capacity to the U.S. Army Corps of Engineers, U.S. Environmental Protection Agency (USEPA), U.S. Department of Transportation, Federal Energy Regulatory Commission, and the state of New Jersey, reviewing federal and state permits for regulated activities in wetlands and coordinating federal projects to avoid or minimize adverse impacts to fish and wildlife populations. Through the *Partners for Fish and Wildlife Program*, the NJFO works with private

land owners and has restored 5,513 acres of freshwater wetlands, 38 miles of riparian buffer, and 1,278 acres of uplands in New Jersey since the program's inception in 1991. Also in partnership with landowners, the *Coastal Program* has restored 2,114 acres of coastal wetlands and 174 acres of uplands, has provided over 76 miles of fish passage, and has protected 4,134 acres of wetlands through fee acquisition since 1999. The *Environmental Contaminants Program* works collaboratively with the USEPA and the state of New Jersey to implement wildlife-protective surface water quality criteria for mercury, PCBs, and DDT; conducts environmental contaminant studies; provides pre-acquisition refuge land surveys and Natural Resource Damage Assessments; and responds to oil spills and chemical discharges. *Outreach/Education* supports NJFO activities with reports, briefings, and public information/outreach publications such as *Field Notes*, an activity report of field operations.

The NJFO's outreach activities also include *The Nature of Learning Program*, which promotes conservation education at local schools blending the Service's mission with school *curricula* and helping students understand and appreciate New Jersey's living resources.

Edwin B. Forsythe National Wildlife Refuge

Brigantine Division

P.O. Box 72, Great Creek Road
Oceanville, NJ 08231
Phone: 609-652-1665/ Fax: 609-652-1474
<http://forsythe.fws.gov>
E-mail: forsythe@fws.gov

Barnegat Division

70 Collinstown Road, P.O. Box 544
Barnegat, NJ 08005
Phone: 609-698-1387/ Fax: 609-698-0109

This incredible National Wildlife Refuge protects more than 46,000 acres of southern New Jersey coastal habitats and wetlands. The refuge extends for 50 miles along the coast from Brick to its southern extent, 5 miles north of Atlantic City. At least 293 species of birds have been observed on the refuge. Over 6,000 acres of the refuge are designated as the Brigantine Wilderness Area. It contains two of the remaining undeveloped barrier beaches in the state. These fragile areas provide essential nesting and feeding habitats for the endangered piping plover, black skimmer, and least tern. Refuge staff and local teachers are in the process of developing environmental education programs. We also offer a variety of activities for scout groups. Check with us to see what we have to offer.

There are at least ten locations where visitors can access the refuge. Three of these are in the Barnegat Bay Watershed -- the deCamp Wildlife Trail in Brick Township, a one-mile trail adjacent to Eno's Pond County Park, and the Barnegat Observation Platform.

The most popular place to view birds is the Wildlife Drive in the Brigantine Division. This eight-mile, one-way, unpaved road leads you through wetlands and woodlands. There are two observation towers and one observation deck equipped with spotting scopes to help visitors view birds. Look for spectacular concentrations of migratory water birds in spring and fall, as they stop and linger in the refuge habitats managed to meet their needs. Hiking trails through the forest and along a boardwalk through the salt marsh provide opportunities to get away from the car to see and hear a variety of wildlife. An entrance fee is required to access the Wildlife Drive

and its associated foot trails. School groups can request an educational fee waiver. Bird checklists, refuge brochures, and a self-guided auto tour guide can be picked up at the entrance to the Wildlife Drive. The refuge headquarters and Wildlife Drive are located between Absecon and Smithville off Route 9 where Great Creek Road meets the bay.

USDA - Natural Resources Conservation Service

220 Davidson Avenue, 4th Floor
Somerset, NJ 08873
Phone: 732-537-6040/ Fax: 732-537-6095
www.nj.nrcs.usda.gov

A major responsibility of the NRCS is to conduct soil surveys on private lands in the United States. Soil surveys contain information in the form of detailed soil maps, data tables, and text narratives that can be used in land-use planning programs. A soil survey contains predictions of soil behavior for selected land uses and highlights limitations and hazards inherent in the soil, and the impact of selected land uses on the environment. They may also provide technical support for problems related to soil erosion and control.

United States Geological Survey

810 Bear Tavern Road
West Trenton, NJ 08628
Phone: 609-771-3901/ Fax: 609-771-3915
<http://nj.usgs.gov>

The United States Geological Survey (USGS) is a division of the U.S. Department of the Interior that has been assessing and monitoring New Jersey's natural resources for over a century. Through cooperative programs with more than 25 federal, state and local agencies, the USGS studies water supply, water quality, floods, droughts, and a variety of other natural resource issues. The research information obtained by the USGS is often the first step in scientific investigations, construction projects, and recreational activity planning. The USGS is instrumental in the study of watershed issues statewide through collection, storage and dissemination of data relating to stream flow, groundwater level, and water quality. Information on their programs is available on their website listed above. The New Jersey office has been involved in the Barnegat Bay National Estuary Program and has some important historical data on the groundwater status within the Barnegat Bay watershed.

***Watershed Partnership for New Jersey -
c/o New Jersey Audubon Society
Center for Research and Education***

600 Route 47 North

Cape May Court House, NJ 08210

Phone: 609-861-0700/ Fax: 609-861-1651

www.wpnj.org

The Watershed Partnership for New Jersey (WPNJ) is an affiliate of the New Jersey Association for Environmental Education (ANJEE) and is a group of individuals that are representative of various groups, organizations and agencies that conduct watershed education throughout the state. They produced a resource directory for the state that lists contact information for watershed education people within each of the five watershed regions of the state. There are regional contacts throughout the state. WPNJ also hosts an annual watershed education conference.

Wetlands Institute

1075 Stone Harbor Boulevard

Stone Harbor, NJ 08247

Phone: 609-368-1211/ Fax: 609-368-3871

www.wetlandsinstitute.org

The Wetlands Institute is a nonprofit organization dedicated to public education and research concerning tidal wetlands and coastal ecosystems. The Institute is situated on 34 acres of salt marsh and is surrounded by 6,000 acres of publicly-owned coastal wetlands which serve as a living laboratory for both students and visitors. Exhibits, live displays, and a self-guided salt marsh trail introduce visitors to salt marsh vegetation, backbay fish, invertebrates, and turtles. Educational programs for schools, colleges, or youth groups can be arranged. Programs for the public, including classes, lectures, and workshops are held throughout the year.

Whitesbog Preservation Trust

13 Whitesbog Village

Browns Mills, NJ 08015

Phone: 609-893-4646

E-mail: Whitesbog@hotmail.com

The Whitesbog Preservation Trust is a nonprofit organization directly involved in the restoration, preservation, and use of Whitesbog as a site for interpretive education. The Trust, in cooperation with Brendan T. Byrne State Forest, sponsors a variety of interpretive and recreational programs at Whitesbog for public education and enjoyment. Historic Whitesbog Village is a turn of the century company town located in the internationally recognized Pinelands National Reserve in Brendan T. Byrne State Forest, Pemberton Township. The village served as the main settlement and service center for the cranberry farming operation of Joseph J. White. In 1916, the first

cultivated blueberry was developed by Elizabeth C. White and Dr. Frederick Coville. Whitesbog is listed on both the National and State Registers of Historic Sites. With few exceptions, the buildings of Whitesbog still stand. Historic Whitesbog Village is also an important natural site. Nestled in the New Jersey Pinelands, Whitesbog serves as a unique example of the relationship between history, culture, and the natural environment. The visitor to Whitesbog is treated to a dazzling array of all the unique features the Pinelands has to offer plus the opportunity to learn about the history and the culture of the region. Tours and presentations may be arranged. Annual events include the Blueberry Festival, Sunset Hayride, and Tundra Swan Tours. The Trust is supported by its membership fees and supported by its volunteers.

* * *

National Organizations for Additional Resources

American Water Resources Association

4 West Federal Street
P.O. Box 1626
Middleburg, Virginia 20118-1626
Phone: 540-687-8390/ Fax: 540-687-8395
www.awra.org
E-mail: info@awra.org

Earth Force

(Previously Global Rivers Environmental Education Network or GREEN)

1908 Mt. Vernon Avenue, 2nd Floor
Alexandria, VA 22301
Toll-free: 800-233-6723
Phone: 703-299-9400/Fax: 703-299-9485
www.earthforce.org
E-mail: earthforce@earthforce.org

Izaak Walton League of America

707 Conservation Lane
Gaithersburg, Maryland 20878
Toll-free: 800-453-5463
Phone: 301-548-0150/ Fax: 301-548-0146
www.iwla.org
E-mail: general@iwla.org

National Arbor Day Foundation

100 Arbor Avenue
Nebraska City, Nebraska 68410
Phone: 800-448-7337
www.arborday.org

National Association of

Conservation Districts

509 Capitol Court NE
Washington, DC 20002
Phone: 202-547-6223/Fax: 202-547-6450
www.nacdnet.org

National Audubon Society

700 Broadway
New York, NY 10003
Phone: 212-979-3000/Fax: 212-979-3188
www.audubon.org

National Wildlife Federation

11100 Wildlife Center Drive
Reston, VA 20190-5362
Phone: 800-822-9919
www.nwf.org

**Ocean Conservancy
(Previously, Center for Marine Conservation)**

2029 K Street
Washington, DC 20006
Toll-free: 800-519-1541
Main: 202-429-5609
www.oceanconservancy.org
E-mail: info@oceanconservancy.org

Soil and Water Conservation Society

945 SW Ankeny Road
Ankeny, Iowa 50023
Phone: 515-289-2331/ Fax: 515-289-1227
www.swcs.org

World Wildlife Fund

1250 24th Street, NW
Washington, DC 20037
Phone: 202-293-4800
www.worldwildlife.org

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**A Synopsis of Curricula and Teacher Resources
to Enhance Barnegat Bay Watershed Education**

NOTE: Those marked with an “#” are New Jersey-based and/or specific.

Active Watershed Education - It's AWESome

The Active Watershed Education Curriculum has been recognized nationally as “one of the best water-based education curricula available in the country.” The curriculum is interactive between students, teachers, and the environment. It is comprehensive, including scientific, cultural, and social information about watersheds, includes units that build on each other -- helping students see the big picture. This curriculum can be used in any watershed as an effective medium for public outreach, and to build support for local watershed management activities.

Southern Rhode Island Conservation District
60 Quaker Lane, Suite 46
Warwick, RI 02886

Phone: (401) 822-8832
Fax: (401) 828-0433
www.sricd.org

Adopt-A-Watershed Program

California-based and focused curriculum in which students “adopt-a-watershed” and follow it as a focal point of their science curriculum through grade twelve. Multiple topics and theme curricula are available, as well as material kits. Call or write for more information.

Adopt-A-Watershed Program
P.O. Box 1850
Hayfork, CA 96041

Phone: (530) 628-5334
Fax: (530) 628-4212
E-mail: aaw@adopt-a-watershed.org
www.earthwater-stencils.com

Barnegat Bay Decoy and Baymen's Museum, Inc.

In addition to the Tuckerton Seaport, the museum offers comprehensive curriculum guides: "From the Beach to the Bay" (habitats, wildlife and culture of South Jersey), "Horseshoe Crabs," and "Take a Walk on the Wild Side" (habitats and wildlife of southern/coastal New Jersey). Individual lesson plans are available on the Seaport website on such topics as: Working the Cycle, Barnegat Bay Boats, Barnegat Bay Decoys, Clamming and Oystering, Tucker's Island Lighthouse and more. Two traveling trunks are available as well on “Horseshoe Crabs” and “Take a Walk on the Wild Side.”

Tuckerton Seaport
120 W. Main Street
Tuckerton, NJ 08087

Phone: 609-296-8868 x 4
Fax: 609-296-5810
www.tuckertonseaport.org

Beneath the Shell: A Teacher's Guide to Nonpoint Source Pollution and Its Potential Impact on New Jersey Shellfish

Designed for grades 1-8, this interdisciplinary, skill-oriented supplemental guide focuses on general water concepts, nonpoint source pollution, and shellfish.

NJDEP, Division of Watershed Management
P.O. Box 418
Trenton, New Jersey 08625-0418

Phone: 609-292-2113
Fax: 609-292-0687
www.state.nj.us/dep/seeds/shell.htm

Bridges to the Natural World

New Jersey Audubon Society's publication. A Natural History Guide for teachers of grades pre-K through 6th grade. *Bridges to the Natural World* was developed to help New Jersey teachers lead students to a better understanding of their local natural environment. The three major sections of the guide are designed to facilitate the transition from classroom or indoor teaching to an outdoor learning experience. Includes easy-to-use descriptions of common New Jersey habitats complete with animal and plant lists. Age-appropriate lessons focus on habitats, natural communities, ecosystems, human ecological impacts and human land stewardship practices. Also includes many shorter activities to help focus students' attention and rubrics to assess learning. In addition to *Bridges*, NJAS offers other professional development opportunities for educators and New Jersey-specific resources, including *NJ WATERS: Watershed Approach to Teaching the Ecology of Regional Systems*, and *Songbirds at the Crossroads of Migration*.

NJAS Department of Education
600 Route 47 North
Cape May Court House, NJ 08210

Phone: 609-861-0700
www.njaudubon.org/Education
E-mail: education@njaudubon.org

Cleaner Times (Clean Streets/Clean Beaches Guide)

Cleaner Times with Camouflage Kid is an educational program that focuses on how improper disposal of waste in the form of litter on our streets negatively affects the beaches and waterways. *Cleaner Times with Camouflage Kid* results from a collaboration between the New Jersey Department of Environmental Protection and the United States Environmental Protection Agency, Region 2. The program is suggested for use in upper elementary and middle school grades. It should be used inland as well as in coastal communities. The *Cleaner Times* educational package contains a video tape called the *Adventures of Camouflage Kid*, a newspaper entitled *Cleaner Times* and related curriculum materials.

NJDEP -- Solid and Hazardous Waste Program
P.O. Box 414
Trenton, NJ 08625

Phone: 609-984-6880
Fax: 609-984-6874
www.state.nj.us/dep/seeds/cscb.htm

The Comprehensive Water Education Book – Grades K-6

The Comprehensive Water Education Book is based on the assumption that children learn best by doing. In education, and especially science, talking is not necessarily teaching. The activities in this manual will help students develop a scientific attitude. By their participation, students can begin to learn cause and effect relationships, increase their natural curiosity, suspend judgment, develop a desire to search for answers, and approach problems with open minds.

International Office for Water Education
Utah Water Research Laboratory
Utah State University
6516 Old Main Hill
Logan, Utah 84322-6516

Phone: 800-922-4693

Conserving Soil

This activity and resource folder is designed for use as enrichment materials for grades 6 through 9 and is an interdisciplinary study of soils. Conserving Soil is ready for use in the classroom – it has 24 photocopy activity masters, 4 full-color transparencies, and a 16-page teacher's guide. The program contains a balance of in-class and outdoor learning experiences that will teach your students about an often overlooked but essential part of the environment – our soils.

Available locally from:

Ocean County Soil Conservation District
714 Lacey Road
Forked River, NJ 08731

Phone: 609-971-7002

Fax: 609-971-3391

www.ocsd.org

E-mail: info@ocsd.org

Curriculum Earth (formerly, Regional Environmental Education Program [REEP])

Curriculum Earth is packaged in two ways: a three-ringed binder set, with each binder containing five units, and as fifteen individual binders, one per unit. Each elementary grade, kindergarten through grade 6, has a corresponding unit: The Five Senses, Communities, Adaptations, Energy, and Cycles. At the middle school/junior high school level, there is one unit each for earth science, life science and physical science. Each unit contains the following components of environmental education: Awareness, Concept and Action.

The Schuylkill Center for Environmental Education Phone: 215-482-7300
8480 Hagy's Mill Road
Philadelphia, PA 19128

Fax: 215-482-8158

www.schuylkillcenter.org

A Curriculum Guide For Wetland Education

The Guide is a compilation of concepts, information and instructional materials concerning wetlands and wetland education produced for the school districts of Oswego County in New York State. Designed for grades K-8, the guide consists of several sections: Wetland Values and Benefits, What's a Wetland?, Oswego County Wetlands, Shrinking Wetlands, Wetland

Ecological Concepts, Wetland Plants, Wetland Animals, A List of Field Trip Sites, Contacts for More Information, Wetland Education Lesson Plans, “Hands-On” Learning Activities for Classroom Teachers, and a Glossary of Terms. The Guide is available at a cost of \$6.00 for postage and handling.

Centers for Nature Education, Inc.
P.O. Box 133
Marcellus, New York 13108-0133

Phone: 315-673-1350
Fax: same
www.takeahike.org

#Discovering Barnegat Bay

Created through a collaborative effort by the Barnegat Bay Environmental Educators Roundtable Steering Committee, *Discovering Barnegat Bay* is an interdisciplinary guide for the historical, cultural and natural resources of the Barnegat Bay watershed. It includes:

- Forty lesson plans and activities designed specifically about the Barnegat Bay watershed.
- Activities that incorporate locally significant topics and issues into existing curricula.
- Lessons that are interdisciplinary and offer opportunities in Language Arts, Science, Social Studies & Mathematics.
- Chapters that focus on themes: Soil, Water’s Path, Natural Wonders, People and Places, and Boundaries of our Watershed. All are created to help make learning more meaningful for students by bringing it “closer to home.”
- A supplemental resource for teachers that meets New Jersey State Standards.
- Workshop attendees also receive a Treasure Chest of more than 65 supplemental resources to enhance the activities.

Available locally from:

Ocean County Soil Conservation District
714 Lacey Road
Forked River, New Jersey 08731

Phone: 609-971-7002
Fax: 609-971-3391
www.ocscd.org
E-mail: info@ocscd.org

Earthwater Stencils

Customized messages improve local programs. Promotes support for pollution prevention and raises awareness of storm drainage to local waters. Multi-lingual versatility. Call or write for more information.

Earthwater Stencils
P.O. Box 1850

Phone: 530-628-5334
Fax: 530-628-4212

Hayfork, CA 96041

www.earthwater-stencils.com

E-mail: info@earthwater-stencils.org

Educating Young People About Water

Educating Young People About Water (EYPAW) provides resources for developing a community-based, youth water education program that targets youth and links key community members in partnerships -- all working toward common water education goals. Search through over 140 water-related curricula in the EYPAW database to find resources to meet programming needs.

Environmental Resources Center
University of Wisconsin
210 Hiram Smith Hall
1545 Observatory Drive
Madison, WI 53706-1289

Phone: 1-800-WATER20
www.uwex.edu/erc/eypaw

Environmental Resource Guide – Nonpoint Source Pollution Prevention

The *Environmental Resource Guide -- Nonpoint Source Pollution Prevention* addresses the impact of land use on the quality of our water. The guide explains what nonpoint source pollution is, where it comes from, and what can be done about it. Activities focus on agricultural, mining, forestry, and urban sources of pollution and the four main types of pollutants: sediment, nutrients, bacteria, and toxins. The guide for grades 9 through 12 includes extensive, student-directed activities that help develop cognitive and reasoning skills, as well as providing sound information on nonpoint source pollution prevention. Available for grades K-2, 3-5, 6-8, and 9-12. Both English and Spanish versions are available.

Education Program Coordinator
Air and Water Waste Management Association
One Gateway Center, 3rd Floor
Pittsburgh, Pennsylvania 15222

Phone: 412-232-3444
Fax: 412-232-3450
www.awma.org
E-mail: info@awma.org

Estuaries -- A Day at the Bay

The program is designed for K-12 educators and covers a variety of topics related to estuarine study. The major goal of the Ocean Institute is to provide education in the areas of oceanography, marine science, barrier beach ecology and dynamics, wetlands, estuaries, weather and global change to schools throughout New Jersey.

Dave Grant, Director
Ocean Institute - Brookdale Community College
Box 533
Sandy Hook, New Jersey
www.brookdalecc.edu/staff/sandyhook/index.html
www.brookdale.cc.nj.us

Phone: 732-872-2284
Fax: 732-872-1110
E-mail: sandyhook@brookdalecc.edu

GEMS (Great Explorations in Math and Science)

GEMS is a series of teacher's guides and handbooks on a number of science and mathematics topics. It represents a wonderfully creative partnership between the Lawrence Hall of Science and thousands of teachers nationwide. GEMS units can serve as a strong support to the National Science Education Standards, Benchmarks for Science Literacy, and New Jersey Core Curriculum Content Standards. Overwhelming educational evidence that students learn best by doing is the basis for the GEMS guided-discovery approach. Activities engage students in the experience and experimentation before introducing explanations of principles and concepts. For more information on the GEMS series and opportunities to become a GEMS Leader or a GEMS Associate please write to:

University of California, Berkeley
GEMS/Lawrence Hall of Science #5200
Berkeley, California 94720-5200

Phone: 510-642-7771
Fax: 510-643-0309
www.lhs.berkeley.edu
E-mail: gems@berkeley.edu

Get the *Dirt* on Soil Biology

Soil filters our water and contributes to plant growth, but it's not the soil that is doing these important jobs – it's the microorganisms living within the soil. In just a spoonful, there are more microorganisms than the number of people on earth. How does this work? The *Soil Biology Primer*, a 4-color, 48-page publication, introduces the reader to the living component of soil and how that component contributes to agricultural productivity and to air and water quality. It's an excellent resource for gardeners, farmers, ranchers, agriculture professionals, resource specialists, conservationists, soil scientists, students, and educators. The *Primer* includes information on the soil food web – the community of organisms living in soil – and how the web relates to soil health. Chapter topics include bacteria, fungi, protozoa, nematodes, arthropods, and earthworms.

The *Primer* is published by the Soil and Water Conservation Society (December 2000). A single copy is \$14.00 (plus \$7.00 shipping/handling fee) with discounts for multiple copies.

Soil and Water Conservation Society
945 SW Ankeny Rd.
Ankeny, IA 50023-9723

Phone: 1-800-THE-SOIL, ext. 10
Fax: 515-289-1227
www.swcs.org
E-mail: Linda.larson@swcs.sorg

Give Water a Hand

Give Water A Hand is a national watershed education program designed to involve young people in local environmental service projects. Following steps in the *Give Water A Hand Action Guide*, your youth group or class plans and completes a community service project to protect and improve water resources.

Environmental Resources Center
University of Wisconsin
210 Hiram Smith Hall
1545 Observatory Drive
Madison, WI 53706-1289

Phone: 1-800-WATER20
www.uwex.edu/erc/gwah

The GREEN Scene

The GREEN Scene is a video and activity packet that contains a series of activities that focus on forest ecology and wilderness. The unit is composed of six activities which may be used very successfully as independent entities. The GREEN Scene was developed through the combined efforts of the Wilderness Society, the University of Arizona School of Renewable Natural Resources, KUAT-TV, and the U.S.D.A. Forest Service.

The Green Scene
c/o CALSmart
College of Agriculture and Life Sciences
The University of Arizona
4101 N. Campbell Avenue
Tucson, Arizona 85721

Phone: 520-318-7275
Toll free: 1-877-763-5315
Fax: 520-795-8508
E-mail: calsmart@ag.arizona.edu

Grow Lab I & II

GrowLab: Activities for Growing Minds reflects a new thrust in hands-on science curricula, intended to help teachers make science inviting and relevant to students' lives, and to make connections between science and other disciplines. Activities in the guide draw upon students' own experiences, encourage open-ended questioning, and help students then turn their own questions into active investigations. The teacher is seen as the co-explorer, collaborating with students and gently guiding their explorations.

National Gardening Association
1100 Dorset Street
South Burlington, Vermont 05403

Phone: 802-863-5251
Fax: 802-864-6889
www.garden.org
www.kidsgardening.com

Grow Your Own Tree

Explore the wonder of trees with the *Grow Your Own Tree* Activity Kit! Designed for lower-elementary age children, *Grow Your Own Tree* introduces the magic of tree growth and teaches

the value of planting trees. Formal and informal educators can provide youngsters the opportunity to:

- Plant and care for their own tree seed
- Learn the different parts of the tree and how each part helps the tree survive
- Discover how trees are used in our everyday lives
- Recognize the difference between a broadleaf and a conifer
- Understand what a tree needs to grow
- Plan an Arbor Day celebration

Grow Your Own Tree Activity Kit can be used as a week-long science unit, or select just one or two activities to introduce young students to the world of trees.

Each kit includes an 8-page activity guide, reproducible masters, 105 thornless honeylocust seeds, 35 peat planting pellets, and sanding paper for breaking through the hard seed coat. Activities correlate with National Science Content Standards. Cost is \$12.95 plus shipping and handling.

The National Arbor Day Foundation
100 Arbor Avenue
Nebraska City, Nebraska 68410

Phone: 402-474-5655
Fax: 402-474-0820
www.arborday.org

Habitats for Learning

This project takes a new look at using and developing school grounds as a habitat for learning. These areas are also called outdoor classrooms, outdoor learning sites, and school land laboratories or “land labs,” but the new term reflects a broader notion of the potential of these areas. All outdoor school grounds, whether in their existing form or designed especially as an outdoor classroom, can be rich habitats for learning. The Planning Guide presents the “nuts and bolts” of how to use, enhance and develop habitats for learning. It includes sections on educational value, building a support system, developing and implementing a plan, and site development. There is also an accompanying video which is designed as a motivational tool.

Ohio Department of Natural Resources
Division of Soil & Water Conservation
Environmental Education Section
2045 Morse Road, B-3
Columbus, Ohio 43229-6693

Phone: 614-265-6878
E-mail: diane.cantresll@dnr.state.oh.us

Lines on the Land

Lines on the Land is a soil and water conservation learning package aimed at 6th through 8th grade students. The 16 lessons included in the package are activity-oriented. Through the

exploration, concept development, and follow-up activities, students discover concepts, form opinions, and become more informed about how soil conservation affects everyone. The package also includes a short 10-minute video that may be used as an introduction, a follow-up, or as part of any of the activities.

National Association of Conservation Districts
Service Center
P.O. Box 855
League City, Texas 77574
Please order on-line at www.nacdnet.org

The Living Tidal Marsh

This fascinating video, with accompanying teacher's guide, explores the wonders of the tidal marsh and the creatures that visit or live within it. It also probes the effects of human activities on these marshes. Students will learn about the actions being taken by government and businesses, such as Public Service Electric and Gas Company, to protect the needs of wildlife. The teacher's guide is organized into three sections that correspond with the video. Each section begins with a brief synopsis followed by the lesson plan, activity suggestions, and notes about the handouts and worksheets.

Available for purchase from:

New Jersey Network
Public TV
Box 777
Trenton, New Jersey 08625-0777

Phone: 609-777-5093
Fax: 609-633-2921
www.njn.net

Living in Water – An Aquatic Science Curriculum for Grades 5-7

Living in Water is a scientific study of water, aquatic environments and the plants and animals that live in water. It was written for grades five through seven, but many of the activities may be of interest to older students. The curriculum covers both marine and freshwater habitats. Each of the five sections addresses a question about water, which is then answered by a variety of activities using an experimental, science process approach to enable the students themselves to arrive at answers. Each section is preceded by teachers' information with science content related to the activities written for the teacher. The emphasis for the students is not on content, but on process.

To order *Living in Water – Aquatic Curriculum*, Phone: 1-800-228-0810 or Fax: 1-800-772-9165
See www.kendallhunt.com

#Low Maintenance Landscaping for the Barnegat Bay Watershed.

This guidebook was developed specifically for residents of the Barnegat Bay watershed and Ocean County's environment and conditions. Sandy and porous soils, salty air, and variable weather conditions all play an important role in determining the make-up and maintenance needs

of the home yard and landscape. This comprehensive guidebook follows eight simple and effective horticultural techniques and methods which will help our county residents establish low maintenance landscapes. This, in turn, will help minimize the impacts of stormwater runoff and nonpoint source pollutants entering our waterways.

This guidebook represents a truly cooperative effort by the Ocean County Soil Conservation District, Rutgers Cooperative Extension of Ocean County and the Barnegat Bay National Estuary Program with support from the Ocean County Planning Department and the Board of Chosen Freeholders. This newly released second edition is available on-line at www.ocscd.org, or as a hard copy, at any of the partner agencies.

MARE – (Marine Activities, Resources and Education)

MARE is an interdisciplinary, school-wide program that engages teachers, students, parents, administrators and the community to transform elementary and middle schools into dynamic laboratories for the study of the ocean. The program, created by Lawrence Hall of Science at the University of California at Berkeley, has been successfully implemented in hundreds of inland and coastal schools nationwide. MARE is specifically designed to enrich science instruction for all students while promoting equity, language acquisition, and academic excellence. MARE was selected in 1995 as one of the 50 most promising science and mathematics programs in the United States and more recently as a “program that works” by the Eisenhower Regional Consortia.

MARE has been adopted as the principal marine science program offered through Rutgers University’s Institute of Marine and Coastal Sciences (IMCS) and the Jacques Cousteau National Estuarine Research Reserve (JCNERR).

Institute of Marine & Coastal Sciences
Rutgers, the State University of New Jersey
71 Dudley Road
New Brunswick, New Jersey 08901-8521

Phone: 609-812 0649
Fax: 609-294-8597
<http://www.jcnerr.org/education/index.htm>

JCNERR Coastal Education Center
130 Great Bay Blvd.
Tuckerton NJ 08087

My World, My Water and Me

The activities in this guide are focused on water pollution and what individuals can do to help. The guide was written and reviewed by teachers and water resource professionals from throughout New Jersey. There is an extensive background section for teachers. It uses the arts extensively to convey human uses and impacts. Materials use a unique strategy to tie all the activity concepts together; students write a story, in sections, as the unit proceeds.

Available locally from:
Ocean County Utilities Authority

Phone: 732-269-4500 x 8226

501 Hickory Lane
Bayville, New Jersey 08721

Fax: 732-269-4173
www.ocua.com

New Jersey Pinelands On-Line Curriculum Guide

The Curriculum guides have been developed for grades 4-6 and grades 7-8. The grades 4-6 Guide contains a General Information Unit, and units on Pinelands Soil, Pinelands Water, Pinelands Fire, Pinelands People, Pinelands Plants, and Pinelands Animals. The grades 7-8 guide covers the same topics, but omits the General Information Unit.

New Jersey Pinelands Commission
Public Programs Office
15 Springfield Road, P.O. Box 7
New Lisbon, New Jersey 08064

Phone: 609-894- 7300
Fax: 609-894-7332
www.nj.gov/pinelands

The Peregrine Project

The Conserve Wildlife Foundation of New Jersey is pleased to announce an exciting way to teach students about one of the fastest animals in the world and one of New Jersey's endangered species, the peregrine falcon. *The Peregrine Project* is a comprehensive curriculum guide aimed at elementary school teachers, featuring 23 multi-disciplinary lesson plans and activities that are sequential, first covering birds in general, urban wildlife, birds of prey, then peregrine falcons. Additionally, *The Peregrine Project* helps to foster a sense of stewardship for the natural world.

Conserve Wildlife Foundation of NJ
501 E. State Street, PO Box 400
Trenton, NJ 08625-0400

Phone: 609-292-1276
Fax: 609-984-1414
www.conservewildlifenj.org

Project Estuary - A Curriculum Guide for Teachers

The guide includes a variety of activities and levels of information designed to fit into the existing secondary school curricula. The underlying philosophy for the curriculum is that estuarine education is so very important that estuarine-related concepts should be taught whenever and wherever possible. The activities are designed to be taught anywhere – access to an estuary is not necessary. The teacher information sections include the unit objectives, vocabulary, answers to unit questions and suggestions for further activities. Available for Loan Only.

North Carolina Nat'l Estuarine Research Reserve
North Carolina Division of Coastal Management
135 Duke Marine Lab Road
Beaufort, North Carolina 28516

Phone: 252-728-2170
Fax: 252-728-6273
www.ncnerr.org
E-mail: frontdesk@ncnerr.org

Project Learning Tree

A pre-K-12 supplemental, multidisciplinary curriculum that uses the forest as a “window on the world” to teach environmental topics. Also available are High School modules on a variety of environmental topics, including Forests, Risk, Municipal Solid Waste/Recycling, and Place-based learning. *Project Learning Tree* resource trunks may be borrowed by educators in New Jersey. In-service workshops are available upon request.

Project Learning Tree
Forest Resource Education Center
370 East Veterans Highway
Jackson, New Jersey 08527

Phone: 732-833-9816
Fax: 732-928-9472
www.plt.org (click on NJ)
E-mail: Elizabeth.Faircloth@dep.state.nj.us

Project Mayfly

This guidebook provides educational study units which allow high school students to monitor the health of streams, rivers, and lakes in their own area. Written for teachers, youth group leaders, and other interested adults, the *Project Mayfly* Handbook provides for chemical, biological, and physical investigations of water.

Project Mayfly Handbook
Pennsylvania State Office
National Audubon Society
100 Wildwood Way
Harrisburg, Pennsylvania 17110

Phone: 717-213-6880
<http://pa.audubon.org>

Project Seasons

Hands-on activities for discovering the wonders of the world! *Project Seasons* is a collection of seasonal, interdisciplinary activities and teaching ideas developed by teachers for teachers. Link your curriculum with exciting multidisciplinary activities designed for the pre-kindergarten and elementary classrooms. Lessons encourage exploration, develop process skills, and emphasize inquiry-based learning. *Project Seasons* is published by Shelburne Farms, a working farm and a nonprofit environmental and agriculture education organization, located in Shelburne, Vermont. Its mission is to cultivate a conservation ethic by teaching and demonstrating the stewardship of the natural and agricultural world.

Shelburne Farms
1611 Harbor Road
Shelburne, VT 05482

Phone: 802-985-8686
Fax: 802-985-8123
Website: www.shelburnefarms.org

Project WET

A very comprehensive coverage of water and water-related topics in a K-12 supplementary curriculum, activity guide. Many of the activities are action-oriented and adaptable for a variety of audiences. Lessons were developed by teachers for teachers. A six-hour teacher training

workshop is required to obtain the WET Curriculum Guide. For information contact: NJWET@dep.state.nj.us or call Amy Messeroll at 609-897-9400, x 106.

The Wetlands Institute
1075 Stone Harbor Boulevard
Stone Harbor, New Jersey 08247

Phone: 609-368-1211
Fax: 609-368-3871
www.wetlandsinstitute.org

Project WILD & WILD School Sites

A supplementary, multi-disciplinary conservation education activity guide for K-12 that emphasizes wildlife and wildlife resources. Activities are designed to assist learners to progress from awareness to action regarding the environment. A specialized program that trains educators to design an outdoor classroom/natural wildlife habitat on their school property is available through *Homes for Wildlife*. Also offered are specific opportunities to incorporate and integrate the outdoor classroom into the curricula. *Taking Action* is also a helpful guidebook available that gives suggestions and hints about leading students into environmental action and stewardship projects.

NJ Division of Fish and Wildlife
Pequest Trout Hatchery and Natural Resource
Education Center
605 Pequest Road
Oxford, New Jersey 07863

Phone: 908-637-4125
Fax: 908-637-6735
www.njfishandwildlife.com

Project WILD – Aquatic

Aquatic WILD is a K-12 interdisciplinary curriculum supplement designed to increase knowledge and awareness of our marine, coastal and inland aquatic environments as well as human domestic, recreational, and industrial water use. Both Project WILD and the companion Aquatic WILD activity guides contain hands-on activities that teachers use with their K-12 students that are designed to take students from awareness to action. Activities can easily be incorporated into most major subject areas, strengthening basic skills while teaching about wildlife and their respective habitats.

Numerous professional development opportunities are available through this office, including programs at the Sedge Island Natural Resource Education Center, located on an island within the state's first Marine Conservation Zone near Island Beach State Park in Barnegat Bay. Programs are designed for teachers and/or teachers with interested natural resource-based student groups. *Green Eggs & Sand*, a unique and nationally-recognized curriculum developed by scientists and educators in New Jersey, Delaware, and Maryland, is based on the horseshoe crab-shorebird phenomenon. For more information on these and other programs offered by the Division of Fish & Wildlife's Aquatic Resource Education program, please contact us by phone, e-mail, or regular mail (see below). In addition, all program information, including workshop dates and fees is available at our website.

NJ Division of Fish and Wildlife

Phone: 609-748-4347

Aquatic Resource Education Program
Nacote Creek Marine Research Lab
P.O. Box 418
Port Republic, New Jersey 08241

www.njfishandwildlife.com (Click on
“Education” and follow the links)
E-mail: karen.leskie@dep.state.nj.us

#The Reptile and Amphibian Resource Package for Teachers

Created by the New Jersey Division of Fish and Wildlife and the Conserve Wildlife Foundation of New Jersey, this resource package includes: *The Field Guide to Reptiles and Amphibians of New Jersey*; *The Field Guide to Salamanders, Frogs, & Toads of New Jersey's Vernal Pools*; *The Calls of New Jersey Frogs and Toads*; and the curriculum guide *Teaching Students About New Jersey Reptiles and Amphibians in the Field & Classroom*. The curriculum guide is a comprehensive guide in both hardcover and CD versions filled with photos, illustrations, and ten innovative lesson plans and activities designed for students in grades 5–9.

Conserve Wildlife Foundation of NJ
501 E. State Street, PO Box 400
Trenton, NJ 08625-0400

Phone: 609-292-1276
Fax: 609-984-1414
www.conservewildlifenj.org

A Resource Guide for Oceanography and Coastal Processes

This guide is intended as an aid to teachers who wish to include marine and oceanography issues in their K-12 curriculum. This resource guide is not intended to be a comprehensive presentation of oceanographic and coastal issues. It does, however, provide teachers with select activities which will aid in framing and clarifying some of the key issues associated with the environment. It has also been recommended that this guide serve as a complementary text for informal educational efforts in museums, science centers, aquariums, and other similar facilities. Hard copies of the Resource Guide are no longer available as a result of the total devastation of the Aquarium by Hurricane Katrina; however, you can access the Guide on their web site, as well as a Coral Reefs Resource Guide, available in both English and Spanish.

J. L. Scott Marine Education Center & Aquarium Phone: 228-818-8890
P.O. Box 7000 Fax: 228-818-8894
Ocean Springs, Mississippi 39566-7000

www.aquarium.usm.edu
E-Mail: scott.aquarium@usm.edu

#Soil Conservation Topics Education Kit

This packet of activities provides curriculum enhancement materials to teachers for supplementing existing lesson plans in Language Arts, Mathematics, Science, Social Studies and Art. The materials emphasize four themes: Soil Resources, Water Resources, Ecological Resources, and Soil and Water Conservation. Each section also contains background information on the theme and the use of local resource people to supplement the programs. Activities and projects are designed for three scholastic levels: K-2, 3-4 and 5-6.

Available locally from:

Ocean County Soil Conservation District
714 Lacey Road
Forked River, New Jersey 08731

Phone: 609-971-7002
Fax: 609-971-3391
www.ocscd.org
E-mail: info@ocscd.org

Stormwater Pollution: Learn And Share (SPLASH)

The *SPLASH* curriculum was developed for use by educators in the local Eugene/Springfield, Oregon area. Although many water units stress the value of clean, safe water, this unit encourages students to explore their local water resources and increase their awareness of water quality. The curriculum focuses on nonpoint source pollution and the activities are easily adaptable to any region. The activities in *SPLASH* foster direct student participation, enhance critical thinking skills, and address a variety of learning styles. Activities include making models and maps, observing and recording, graphing, writing, guest speakers, art, songs and field trips. The curriculum was revised and reprinted in 2001 and now contains the curriculum for grades K-8. A new website, just for kids, is located at www.ci.eugene.or.us/SPLASHWEB. The latest component of the curriculum, Salmon and the Ecosystem, can be downloaded from the website. Just look in the upper left-hand corner under "What's new." Teachers can also print out the curriculum by clicking on the "Teachers, click here section."

Public Information Specialist
City of Eugene Public Works
858 Pearl Street
Eugene, Oregon 97401

Phone: 541-682- 2739
Fax: 541-682-6826
E-mail: kathy.a.eva@ci.eugene.or.us

#Teacher's Resource Guide to Recycling in Ocean County

This on-line Guide was updated in 2004 and is geared for grades 4-6. It includes many activities that teachers can integrate within their lesson plan. Hard copies of the guide are also available from the Department of Solid Waste Management office. The Guide is available as well in CD-Rom format.

Department of Solid Waste Management
P.O. Box 2191
Toms River, NJ 08754-2191

Phone: 732-506-5047
www.co.ocean.nj.us/hotline.htm
E-mail: ocrecycles@co.ocean.nj.us

That Magnificent Groundwater Connection

A complete groundwater resource book is now available for teachers of grades K-6. It includes selected groundwater-related activities adapted from available curricula. Incorporating the groundwater theme into science, stories, songs, math, social studies, art, and writing makes the resource books applicable over a range of subjects.

The activities focus on groundwater issues in New England. Presenting the information with a New England spin teaches students about the region's geologic and hydrologic idiosyncrasies and how groundwater and the water cycle function locally. Recognizing today's children as

tomorrow's leaders, the curricula challenges students to think, sort out facts, brainstorm, experiment, and learn.

That Magnificent Groundwater Connection costs \$25. To order your copy or copies, and/or to organize teacher training in how to use the curricula, send an e-mail to our Lowell office. Please put "Groundwater" in the subject line.

New England Interstate Water
Pollution Control Commission (NEIWPC)
116 John Street
Lowell, Massachusetts 01852

Phone: 978-323-7929
Fax: 978-323-7919
www.neiwpc.org

Understanding Wetlands - A Valuable Natural Resource

Uniquely designed as a one-week course of study, *Understanding Wetlands* includes the basics for wetlands study: What is a Wetland?, Plants and Animals in a Wetland, Wetland Permits, Mitigating Wetlands Loss, and Protecting Wetlands.

Centers for Nature Education, Inc.
P.O. Box 133
Marcellus, New York 13108

Phone: 315-673-1350
Fax: 315-673-3671
www.takeahike.org
E-mail: cnebw@usadatanet.net

The Water Sourcebook

The *Water Sourcebook* educational program is directed specifically toward the in-school population. The program consists of four separate volumes: for primary (K-2), elementary (3-5), middle (6-8), and secondary (9-12) levels. Materials are compatible with existing curriculum standards established by State Boards of Education throughout the United States and will teach concepts included in those standards by using water quality information as the content. Each *Water Sourcebook* has five chapters -- Introduction, Drinking Water and Wastewater Treatment, Groundwater, Surface Water, and Wetlands. All of the activities include hands-on components and are designed to blend with existing curricula in the areas of general science, language arts, math, social studies, art, and, in some cases, reading or other areas. Fact sheets and a comprehensive glossary section are included at the end of the guide to equip teachers with necessary background information. All four volumes are now available on one CD-Rom and order forms /sample exercises can be obtained on the website.

Georgia Water Wise Council
2121 New Market Parkway
Suite 144
Marietta, Georgia 30067-9309

Phone: 770-618-8690
www.gwwc.org

Watershed to Bay - A Raindrop Journey

A critical and creative thinking approach to understanding coastal watershed systems. The guidebook was developed to provide teachers and volunteer educators with strategies for

learning and teaching about coastal estuarine watershed systems vital to water quality on the land surface, under the ground, and out in the bay. The Educator's Guide contents focus on the environmental factors of Southeastern Massachusetts geology and human impacts. However, the authors encourage educators to adapt the strategies and activities to fit their own backyards. Activities integrate interdisciplinary themes, hands-on experiences, and use of models to link the familiar with the unknown.

University of Massachusetts
Cooperative Extension System
Barnstable County Office
P.O. Box 367
Barnstable, MA 02630

Phone: 508-362-2511 x 6690

The Wonders of Wetlands (WOW)

A wonderful activity guide that focuses on the wetland environment. Each activity and lesson plan addresses a different aspect of the wetland environment. Many of the activities instruct students to create their own investigative study tools for wetlands experiments. A "must have" if investigating or planning a field trip to a wetland area.

Environmental Concern, Inc.
P.O. Box P
St. Michaels, MD 21663

Phone: 410-745-9620
In NJ: 609-368-1211 (The Wetlands
Institute, Stone Harbor)
www.wetlandsinstitute.org

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Other Resource Guides, Directories, and Web Sites With Information Related to Barnegat Bay Watershed Topics

Earth Day New Jersey – www.earthdaynj.org

Register your Earth Day event on the NJ Department of Environmental Protection Earth Day website and get information and resources on how to have a successful event.

Educating Young People About Water – A Guide to Goals and Resources – 800-276-0462

A guide for teachers who want to organize and teach a program about water quality. Includes suggested methods and references for additional education materials and curricula.

Estuary Lesson Plans -- Lesson plans on estuaries have been developed for students in grades 9–12, but are easily adaptable for students at the middle school or undergraduate level.
http://www.nos.noaa.gov/education/kits/estuaries/supp_estuaries_lessons.html

Marine Education Resource Guide – 609-748-2031

A resource list for K-12 teachers who wish to include topics on the marine, coastal and wetland environments in the classroom. The guide lists curricula, workshops, field trips, films and videos, and much more. Also see www.njfishandwildlife.com for more information on workshops and educational materials.

New Jersey Commission on Environmental Education –
www.nj.gov/dep/seeds/njcee/index.htm

The New Jersey Commission on Environmental Education and Interagency Work Group (on Environmental Education) are state level groups charged with guiding, supporting, promoting, assisting, and monitoring the state's environmental education efforts, including school-based, youth, family, adult, business and public education efforts on such broad themes as natural resources, ecology, pollution, waste, conservation, energy, and environmental health.

New Jersey State Parks – 1-800-843-6420
www.njparksandforests.org

State parks day-use and camping brochures available.

New Jersey Watershed Education and Resource Directory
www.wpnj.org

A directory of the members of the Watershed Partnership for New Jersey (WPNJ) which is a statewide network of watershed education and outreach representatives from more than 70 organizations.

Ocean County Government Directory – 800-722-0291

An annual directory that lists all county government offices and their contact information. Includes the Parks and Recreation Department, State and Federal Elected Officials, Museums, and even the News Media contacts for Ocean County.

Pinelands Guide – 609-894-7300

This booklet contains a representative sampling of places to visit and things to do in the Pinelands National Reserve. It contains a description of 16 different locations, their unique features, and the contact information for visiting or touring each site.

Pinelands Speakers Directory – 609-894-7300

The directory lists topics related to the Pinelands and correlates them to an alphabetical listing of speakers. Updated annually. Some speakers require a fee.

Pine-Scape – 609-894-7300

A landscaping guide that describes the do's and don'ts of Pine Barrens landscaping.

SEEDS – The State Environmental Education Director Website

An on-line catalog of environmental education resources available through the New Jersey Department of Environmental Protection. www.njgov/dep/seeds

Map Resources for Exploring the Watershed

Ocean County Department of Planning

129 Hooper Avenue, P.O. Box 2191

Toms River, NJ 08754

www.co.ocean.nj.us/planning/planninghome.htm

Phone: 732-929-2054

Fax: 732-244-8396

The Ocean County Department of Planning has a Geographic Information System (GIS) that displays the environmental features of the Barnegat Bay watershed. The Planning Department also has extensive map resources available in their publication "Ocean County Data Book." This book is available by mail and online at our website.

U.S. Geological Survey -Topographic Maps 1-800-USA-MAPS

Watershed boundaries are determined by topography, making the use of topographic maps inherent to any investigation or exploration of the watershed. Topographic maps are available for the entire country by areas referred to as quadrangles.

In New Jersey:

NJDEP

Maps and Publications Sales Office

428 East State Street, P.O. Box 438

Trenton, NJ 08625

Phone: 609-777-1038

Fax: 609-292-3285

www.state.nj.us/dep/njgs

View the entire Barnegat Bay Watershed (a wall mural of all the connecting quadrangles) at the Cooper Environmental Center in Cattus Island County Park, off Fischer Boulevard in Toms River.

Topographic maps are also available on CD-Rom

Map Tech, Inc.

10 Industrial Way

Amesbury, MA 01913

Phone: 800-627-7236

www.maptech.com

Topographic Maps of the Entire State

New Jersey Atlas & Gazetteer

Delorme

P.O. Box 298

Yarmouth, ME 04096

Phone: 800-561-5105

www.delorme.com

These handy small version (and scale) topographic maps are affordable and widely available at any major book/map store.

Source of statewide watershed and drainage basin maps and publications

NJDEP

Division of Watershed Management
P.O. Box 418
Trenton, NJ 08625

Phone: 609-292-2113
Fax: 609-292-0687
www.state.nj.us/dep/watershedmgt

New Jersey Geological Survey: See a geologic map of New Jersey at www.nj.gov/dep/njgs.

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**Barnegat Bay Watershed Environmental Educators Roundtable
Steering Committee Members**

The *Barnegat Bay Environmental Educators Roundtable Steering Committee* was formed in 1995, to partner in a coordinated and collaborative effort to bring Barnegat Bay watershed topics and issues to the teachers of Ocean County. Representatives from the “who’s who” of environmental education at work in the county were brought together and have remained together as a successful and productive advisory group for OCSCD’s educational efforts. The group’s accomplishments have included: the development of the Barnegat Bay Watershed Educational Resource Guide (1999, revised 2006), the development and implementation of [Discovering Barnegat Bay](#) activity guide and Treasure Chests (2003), and the ever popular annual [Barnegat Bay Environmental Educators Roundtable](#), now in its eighth year. Members of the *Barnegat Bay Environmental Educators Roundtable Steering Committee* serve as instructors for the Roundtable and their facilities as host sites for [Discovering Barnegat Bay](#) workshops. The organizations and groups that they each represent offer wonderful resources and opportunities for teachers and students to explore the wonders of the Barnegat Bay watershed. OCSCD would like to thank and acknowledge the efforts of this group and to provide those interested with links to their individual websites which each offer a unique perspective and opportunity for continued watershed education.

Claire Antonucci, New Jersey Marine Sciences Consortium

<http://www.njmssc.org/>

Lisa Auermuller, Rutgers University Institute of Marine & Coastal Sciences

<http://www.imcs.rutgers.edu/>

Kimberly Belfer, Alliance for a Living Ocean

<http://www.livingocean.org/>

Natasha Brown, United States Dept. of Agriculture, National Resources Conservation Service

www.nrcs.usda.gov

Elizabeth Clarke, United States Dept. of Agriculture
www.nrcs.usda.gov

Chris Claus, Cattus Island County Park
<http://www.co.ocean.nj.us/parks/cattus.html>

Cindy Claus, Jenkinson's Aquarium
<http://www.jenkinsons.com/aquarium/>

Johanna DeAngelo, Educator, New Jersey Museum of Agriculture
<http://www.agriculturemuseum.org/index2.html>

Elizabeth Faircloth, New Jersey Forest Resource Education Center
http://www.state.nj.us/dep/parksandforests/forest/njfs_frep.html

David Friedman, Ocean County Soil Conservation District
<http://www.ocscd.org/>

Nancy Gerry, Ocean County College
<http://www.ocean.edu/>

Eileen Giffoniello, Natural Resource Education Foundation of New Jersey
<http://www.lighthousecenternj.org>

Kyra Hoffman, NJDEP, Division of Watershed Management
<http://www.nj.gov/dep/watershedmgt/>

Robert Ingenito, Ocean County Health Department
<http://www.ochd.org/>

Mary Judge, Barnegat Bay National Estuary Program
<http://www.bbep.org>

Karen Leskie, New Jersey Division of Fish & Wildlife
<http://www.state.nj.us/dep/fgw/>

Jeanette Lloyd, Stafford Intermediate School
<http://www.staffordschools.org/intermediate.htm>

Robert Mancini, NJDEP, Division of Watershed Management
<http://www.nj.gov/dep/watershedmgt/>

Michael Mangum, Director, Ocean County Parks Department
<http://www.co.ocean.nj.us/parks/>

Janice McDonnell, Rutgers University, Institute of Marine and Coastal Sciences
<http://www.imcs.rutgers.edu/>

Dr. James Merritt, Sedge Island Natural Resource Education Center
<http://www.state.nj.us/dep/fgw/sedgtr00.htm>

Cara Muscio, Marine Agent, Rutgers Cooperative Research and Extension
<http://www.rce.rutgers.edu/>

Cathy O'Leary, Teacher, Stafford Intermediate School
<http://www.staffordschools.org/intermediate.htm>

Terry O'Leary, Forest Resource Education Center
http://www.state.nj.us/dep/parksandforests/forest/njfs_frep.html

Michele Pierdinock, Executive Director, Tuckerton Seaport
<http://www.tuckertonseaport.org/>

Christine Raabe, Education Outreach Specialist, Ocean County Soil Conservation District
<http://www.ocscd.org/>

Dale Rosselet, Vice President of Education, New Jersey Audubon Society

<http://www.njaudubon.org/>

Eric Simms, Rutgers University, Institute of Marine & Coastal Sciences

<http://www.imcs.rutgers.edu/>

Tuckerton Seaport

<http://www.tuckertonseaport.org/>

Michelle Urban, Wells Mills County Park

<http://www.co.ocean.nj.us/parks/wellsmills.html>

Art Webster, Edwin B. Forsythe National Wildlife Refuge

<http://www.fws.gov/northeast/forsythe/>

John Wnek, Ocean County Vocational-Technical School

<http://www.ocvts.org/>