

US Army Corps of Engineers Wilmington District Environmental Outreach



Programs and Activities

Mission Statement

"Provide a dynamic education program that promotes environmental understanding and demonstrates the US Army Corps of Engineers' commitment to environmental stewardship and sustainability."

Environmental Operating Principles

1. Strive to achieve Environmental Sustainability. An environment maintained in a healthy, diverse, and sustainable condition is necessary to support life.
2. Recognize the interdependence of life and the physical environment, and consider environmental consequences of Corps programs and activities in all appropriate circumstances.
3. Seek balance and synergy among human development activities and natural systems by designing economic and environmental solutions that support and reinforce one another.

Environmental Operating Principles

4. Continue to accept corporate responsibility and accountability under the law for activities and decisions under our control that impact human health and welfare and the continued viability of natural systems.
5. Seek ways and means to assess and mitigate cumulative impacts to the environment; bring systems approaches to the full life cycle of our processes and work.
6. Build and share an integrated scientific, economic & social knowledge base that supports a greater understanding of the environment and impacts of our work.

Environmental Operating Principles

7. Respect the views of individuals and groups interested in Corps activities; listen to them actively and learn from their perspective in the search to find win-win solutions to the Nation's problems that also protect & enhance the environment.



US Army Corps
of Engineers
Wilmington District

Wilmington District Environmental Education Program

Operations

Environmental

Regulatory

Event	Target Group	Location	Date	EOPs
Bald Eagle Display	All Ages	Jordan Lake	All Year ~ x times	1,2,3,6,7
Blue Jay Pont County Park	All Ages	Falls Lake	All Year ~ x times	1,3,6
District-Wide Display	All Ages	District Office	All Year ~ x times	
Ecosystems	All Ages	Philpott Lake	All Year ~25 times	1, 2, 6
Environmental Operating Principles	All Ages	District Office	All Year ~ x times	All
Environmental Reading	Age 3-10	Philpott Lake	All Year ~ 20 times	6
Envirothon	Ages 12-18	Jordan Lake	March/April	1,6,7
Flood control in the Yadkin River Basin	All Ages	W. Kerr Scott	Upon Request	1, 2, 3, 4, 5, 6,7
Hidden Treasures	Ages 3-10	Falls Lake	All Year ~ x times	1,6,7
Island 13 Display	All Ages	District Office	All Year ~ x times	4
Jordan Lake Educational State Forest	All Ages	Jordan Lake	All Year ~ x times	1,3,6
Lessons of the Lorax	All Ages	W. Kerr Scott	April - Sept	1, 2, 3,4,5,7
Marvelous Mushrooms Nature Walk	All Ages	W. Kerr Scott	April - Sept	1, 3, 4
Music of the Night	All Ages	W. Kerr Scott	April - Sept	2, 3, 6
Nature Scavenger Hunt	< Age 16	W. Kerr Scott	April - Sept	1, 3, 6
NC Division of Parks and Rec	All Ages	Falls/Jordan	All Year ~ x times	1,3,6
Raptor Release Program	All Ages	W. Kerr Scott	Upon Request	1, 3, 4
Resource Conservation Workshop	Ages 15-18	Falls Lake	June	1,6,7
Storm Surge Model	All Ages	District Office	All Year ~ x times	
Tanner Center Activities	All Ages	John H. Kerr	All Year ~ x times	1, 6, 7
Three Ring Learning Tree	K - 12	John H. Kerr	All Year ~ x times	1, 6, 7
VA - NC Ecology Meet	6 - 12	John H. Kerr	April	1, 6, 7
Water Quality	Ages 11-15	Jordan Lake	All Year ~ x times	1,3,6,7

Event	Target Group	Location	Date	EOPs
Watersheds	All ages	Philpott Lake	All Year ~ 25 times	1, 2, 6, 7
Where did that come from	All Ages	W. Kerr Scott	Upon Request	1, 2, 3, 4, 5,6
World of Water	All Ages	Falls Lake	All Year ~ x times	1,3,6,7



**US Army Corps
of Engineers**
Wilmington District

Topic Index (p1)

Event	Wetlands	Stewardship	Wildlife	Ecology	Geology & Soils	Trees & Plants	Habitats	Forestry	Wildlife Management	Human Impacts	Conservation/Restoration	Food Chains	EE Facility	Watersheds	Water Quality	Mitigation			
Bald Eagle Display			X				X	X	X										
Blue Jay Point County Park												X							
District-Wide Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Ecosystems	X	X	X	X	X	X	X	X	X	X	X	X		X	X				
Environmental Operating Principles		X								X	X								
Environmental Reading		X	X				X												
Envirothon	X				X			X	X	X	X								
Flood control in the Yadkin River Basin	X	X	X	X	X	X	X	X	X	X	X			X	X				
Hidden Treasures			X	X	X	X	X	X	X	X	X	X							
Island 13 Display		X		X						X	X					X			
Jordan Lake Educational State Forest													X						
Lessons of the Lorax		X		X						X	X								
Marvelous Mushrooms Nature Walk				X		X													
Music of the Night			X	X						X		X							
Nature Scavenger Hunt			X	X	X	X				X	X								
Raptor Release Program		X	X	X					X	X	X								
Resource Conservation Workshop	X		X	X		X	X	X	X		X			X	X				

Storm Surge Model					X					X									
Tanner Center Activities		X	X	X		X	X	X	X	X	X	X	X	X					
Three Ring Learning Tree			X	X			X	X	X	X	X								
VA - NC Ecology Meet		X	X	X	X	X		X	X										
Water Quality	X				X	X				X	X			X	X				
 <p>US Army Corps of Engineers Wilmington District</p> <p>Topic Index (p2)</p>	<i>Wetlands</i>	<i>Stewardship</i>	<i>Wildlife</i>	<i>Ecology</i>	<i>Geology & Soils</i>	<i>Trees & Plants</i>	<i>Habitats</i>	<i>Forestry</i>	<i>Wildlife Management</i>	<i>Human Impacts</i>	<i>Conservation/Restoration</i>	<i>Food Chains</i>	<i>EE Facility</i>	<i>Watersheds</i>	<i>Water Quality</i>	<i>Mitigation</i>			
	Watersheds	X	X		X			X			X	X			X	X			
	Where did that come from				X					X	X	X			X	X			
	World of Water	X	X								X	X			X	X			



**US Army Corps
of Engineers**
Wilmington District

Jordan Lake Wilmington District Moncure, North Carolina Bald Eagle Display

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: To promote the management of public lands by the Corps and our partners for populations of bald eagles and other birds and to encourage natural resource based recreation activities such as bird watching and hiking.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 2, 3, 6, 7

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: Falls and Jordan Lake represent about 50% of the protected open space in the Triangle. Amidst a rapidly growing urban area, these public lands are home to many avian species including bald eagles, osprey, and resident and migratory songbirds. The display highlights the eagle populations on the lakes, eagle identification techniques, and places to view eagles. To compliment the display, a bald eagle that has been preserved, may be borrowed from the Jordan Lake State Recreation Area.

DATES NORMALLY HELD:

Early October (Oct. 4 2004), Heritage Day Festival
Weekends throughout the summer

CONTACT INFORMATION

Carmen Boyette
Jordan Lake
PO Box 144
Moncure, NC 27559
Phone: 919-542-4501 extension 27
Email: Carmen.B.Boyette@saw02.usace.army.mil

ADDITIONAL INFORMATION: See the following website:
<http://www.saw.usace.army.mil/PAO/Press%20Releases%202003/may-7-03.htm>



**US Army Corps
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Wilmington District

John H. Kerr Reservoir
Wilmington District
Boydton, VA
"Three-Ring Learning Tree"

"Our mission is to provide a dynamic educational program that promotes an understanding of the US Army Corps of Engineers commitment to environmental stewardship and sustainability."



OBJECTIVE: To promote water safety awareness and stewardship of natural resources through game playing and hands-on activities.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 6, and 7

TARGET AUDIENCE: Grades K-12.

PROGRAM FEATURES: Performed "On Site" at Kerr Dam. The "Three-Ring" Learning Tree works for large or small groups. Three focus areas: water safety activities (outdoors), a Project Learning Tree® activity (outdoors), and a tour/lecture in the Tanner Center (live snake specimens, mounted animals, etc. Classes are split into 3 groups, or small groups go to each station.

Length of Program is tailored to the teachers' needs. Content is also flexible, depending upon standards of learning objectives that must be met, and/or to the age-appropriate activities desired.

Example: 120 fifth-grade children are divided into 3 groups. #1 goes to Tailrace Park and plays "Overloaded Boat" and "Life Jacket Relay" (30 minutes); #2 goes outside Tanner Center and plays "Bird Migration Game" (30 minutes); #3 goes inside Tanner Center for hands-on learning about flora and fauna, including live snakes to differentiate venomous from non-venomous. Groups then rotate.

DATES HELD: By Request, All Year

CONTACT INFORMATION:

Sherrie Storm, Park Ranger
1930 Mays Chapel Road, Boydton, VA 23917
sherrill.c.storm@usace.army.mil.VT
(434) 738-6143 x 151



**US Army Corps
of Engineers**
Wilmington District

Jordan Lake Wilmington District Moncure, North Carolina (Envirothon Competition)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: Promote the subject of environmental education to middle and high school students. Students will take responsibility for the environment and will pursue careers in natural resource fields.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 6, 7

TARGET GROUP: Ages 12-18

PROGRAM/SITE FEATURES: High school and middle school teams compete in five subject areas including wildlife, forestry, soil, aquatics, and current environmental issues. In North Carolina, seven area competitions are held. The Area III competition is held at the Jordan Lake Educational State Forest. From the area competitions, seven high and middle school teams advance to the state competition in the spring at Cedarock Park in Alamance County. High school winners from the state compete in a national competition during the summer.

DATES NORMALLY HELD:

Area III March
State Competition April

CONTACT INFORMATION

Carmen Boyette
Jordan Lake
PO Box 144
Moncure, NC 27559
Phone: 919-542-4501 extension 27
Email: Carmen.B.Boyette@saw02.usace.army.mil

ADDITIONAL INFORMATION: See the following website:

<http://www.enr.state.nc.us/DSWC/pages/envirothon.html>
<http://www.envirothon.org/>



US Army Corps
of Engineers
Wilmington District

Environmental Resources Section Wilmington District

Island 13 Display



OBJECTIVE: To demonstrate to the Public that we are environmentally responsible and accountable in carrying out agency activities (Environmental Operating Principle #4).

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: Specifically, this display summarizes the mitigation on Island 13 (Cape Fear River) that was done as part of the Wilmington Harbor deepening project. Dredging for deepening of the Wilmington Harbor navigation project will impact ~ 22 acres of State of North Carolina designated primary nursery area. To mitigate for this impact the Wilmington District constructed a mitigation project, which included the excavation and grading of an old dredged material disposal site to change approximately 30 acres of high ground to wetland or tidal elevations, followed by planting of appropriate marsh grasses, and monitoring of the site to measure success. The display includes a tri-fold board with numerous pictures and captions, a marsh grass sample, and a microscope. The microscope is often set up as part of the display, so that visitors may view a sample of the marine organisms. Marine organisms for viewing are usually collected the day of the event using a plankton net (available from Environmental Resources Section). Marsh grass is also collected fresh from a local marsh. Plankton samples will last a few days in the refrigerator. The marsh grass is good for about a week if kept watered.

Additional Information: There is also a 4'X 4' felt backdrop and reduced captions that can be used for a standard conference poster session.

DATES NORMALLY HELD: No specific dates. The District display is available for use at conferences, meetings, fairs, festivals, schools, etc.

CONTACT INFORMATION

Chuck Wilson
Environmental Resources Section
U. S. Army Corps of Engineers
P. O. Box 1890
Wilmington, NC 28402-1890



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott
Wilmington District
Wilkesboro, North Carolina
(Marvelous Mushrooms Nature Walk)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Introduce some of the many types of fungus found in North Carolina.

ENVIRONMENTAL OPERATING PRINCIPLES:

1,3,6

TARGET GROUP:

All Ages

PROGRAM/SITE FEATURES:

North Carolina has more different species of mushrooms than any other state in the Union. Using any of the nature trails located within the park, introduce some of the species found here in western North Carolina. Provide visitors with a basic understanding of mushrooms, how to determine poisonous from non-poisonous mushrooms, and how to properly use their field guide for identification.

DATES NORMALLY HELD:

Weekends Memorial Day – Labor Day (approximately 4 times per season)

CONTACT INFORMATION

Miriam Fleming
W. Kerr Scott
499 Reservoir Rd.
Wilkesboro, NC 28697
Phone: 336.921.3390
Email: Miriam.Fleming@saw02.usace.army.mil

ADDITIONAL INFORMATION:



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott Wilmington District Wilkesboro, North Carolina (Raptor Release Program)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Promote our commitment to protecting threatened and endangered species by providing a protected release site for rehabilitated raptors.

ENVIRONMENTAL OPERATING PRINCIPLES:

1,3,4

TARGET GROUP:

All Ages

PROGRAM/SITE FEATURES:

Wildlife rehabilitation facilities such as Wild Haven, The Blue Ridge Wildlife Institute, and the Carolina Raptor Center utilize our protected shorelines to release raptors that have been injured or abandoned as nestlings or fledglings. Providing this service offers lay people the unique experience to witness the return of threatened and endangered species to the wild. To date, we have participated in the successful release of an immature bald eagle and a fledgling great horned owl.

DATES NORMALLY HELD:

Upon Request (approximately two times per year)

CONTACT INFORMATION

**Miriam Fleming
W. Kerr Scott
499 Reservoir Rd.
Wilkesboro, NC 28697
Phone: 336.921.3390
Email: Miriam.Fleming@saw02.usace.army.mil**

ADDITIONAL INFORMATION:

www.birdsofprey.org
www.wildcarebr.org



**US Army Corps
of Engineers**
Wilmington District

Jordan Lake Wilmington District Moncure, North Carolina (Water Quality "A Bucket of Fun")

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: Students will take responsibility for their actions and those of others to maintain the sustainability of the earth's water supply.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 3, 6, 7

TARGET GROUP: Ages 11-15

PROGRAM/SITE FEATURES: Students learn about water quality through a program that simulates various ways a stream can become polluted. Scenarios in the program include a septic tank overflows, a silt fence breaks at a construction site, a car with an oil leak, excess use of fertilizers, and trash that is tossed into the stream. As the stream becomes polluted, fish and other animals (macroinvertebrates) begin to die. Towards the end, students organize a stream cleanup effort and request assistance from other agencies. The stream is never clean as it was and some of the fish and animals do not return to the stream. As a result, students realize that is important to take a proactive approach to the management of our resources.

DATES NORMALLY HELD:

Spring, Chatham County Environmental Field Days
Throughout the Year as Requested

CONTACT INFORMATION

Carmen Boyette
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PO Box 144
Moncure, NC 27559
Phone: 919-542-4501 extension 27
Email: Carmen.B.Boyette@saw02.usace.army.mil

ADDITIONAL INFORMATION:



**US Army Corps
of Engineers**
Wilmington District

Falls Lake Wilmington District Wake Forest, North Carolina (Blue Jay Point County Park)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: It is the mission of Blue Jay Point County Park, through the Blue Jay Center for Environmental Education, to provide opportunities for Wake County citizens to experience environmental education in a natural setting.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 3, 6

TARGET GROUP: Ages 5 and up

PROGRAM/SITE FEATURES: Park amenities include: trails, picnic areas, playgrounds, the Education Center and its exhibits, gardens and fishing in Falls Lake. Park program opportunities are available on almost all age levels and focus on natural science and natural history topics of Piedmont North Carolina. Meeting and overnight facilities are available to those organizations actively conducting environmental education. Unique site features include 264 acres of mostly natural site on Falls Lake.

DATES NORMALLY HELD: 8:00am until sunset, 361 days a year, (The park is closed Thanksgiving Day, Christmas Eve, Christmas Day, and New Year's Day.).

CONTACT INFORMATION

Blue Jay Center for Environmental Education
Blue Jay Point County Park
3200 Pleasant Union Church Road
Raleigh, NC 27614
Phone: 919-870-4330 Fax: 919-870-4327
Email: bluejaypoint@co.wake.nc.us

ADDITIONAL INFORMATION: See the following website:

<http://www.wakegov.com/county/parks/default.htm>



US Army Corps
of Engineers
Wilmington District

John H. Kerr Reservoir
Wilmington District
Boydton, VA
VA – NC Annual Ecology Meet

"Our mission is to provide a dynamic educational program that promotes an understanding of the US Army Corps of Engineers commitment to environmental stewardship and sustainability."



OBJECTIVE: Promote natural resources stewardship among middle and high school students through an environmental education competition that is inter-agency, hands-on, interactive, and involves most aspects of the natural resources management of Kerr Reservoir.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 6, 7

TARGET GROUP: Middle School and High School Students in the six-county, two-state area surrounding Kerr Reservoir. Teachers chose the student teams.

PROGRAM/SITE FEATURES: Established by Corps Park Rangers in 1990 in honor of Earth Day (and patterned after Pittsburgh District's EcoMeet), the Ecology Meet is a one-day environmental education competition, with eight subject "test stations" sponsored by natural resources management partners at Kerr. Test stations are Herpetology, Hydrology, Aquatics, Endangered Species, Soils, Wildlife, Forestry, and Environmental Interpretation. Teams of students compete by rotating every 20 minutes to the different stations. The event is held at different locations around Kerr Reservoir to encourage maximum participation among schools.

At the conclusion, scores are tallied and trophies awarded for each station as well as First, Second, and Third Place overall. Middle and high school students compete at the same station, but are not judged against each other. Competition is limited to Vance, Granville, and Warren Counties (NC), and Mecklenburg, Halifax, and Charlotte Counties (VA). The Soil and Water Conservation Districts in the six preceding counties provides funding for the trophies.

The VA-NC Ecology Meet was re-established in 1993 as a "not-for-profit" organization, managed by a committee comprised of the participating partners.

DATES NORMALLY HELD: Wednesday nearest Earth Day, April 22 (or Ecology Meet Committee Decision).

CONTACT INFORMATION

Sherrie Storm, Park Ranger
1930 Mays Chapel Road, Boydton, VA 23917

sherrill.c.storm@usace.army.mil

(434) 738-6143 x 151





US Army Corps
of Engineers
Wilmington District

Ecosystems Wilmington District Philpott Lake Bassett, Virginia

“When we try to pick out anything by itself, we find it hitched to everything else in the Universe.”

John Muir, 1911



OBJECTIVE: Educate awareness of the environment and all its components while promoting USACE environmental stewardship and practices

ENVIRONMENTAL OPERATING PRINCIPLES: 1,2, 6

TARGET GROUP: Program can be modified for any age

PROGRAM/SITE FEATURES: This program encompasses multiple sections that can be taken in part or as a whole. Material content is available for all age groups. Program accomplishment is through various interactive media.

Section 1 - Trees: attendees can learn all about trees- age, “parts,” life cycle, species identification, seasonal changes, and more. Also, they’ll discover environmental impacts on growth while learning about forest succession.

Section 2 - Mammals: this section examines mammal characteristics, behaviors, and signs that indicate presence. Predator/prey relationships, human impact on mammal populations, and habitat requirements are key topics addressed.

Section 3 - Fungus: a “Fungus Among Us” section discusses food chains, decomposition, and recycling energy.

Section 4 - Insects and Spiders: explore the importance of and differences between insects and spiders in an ecosystem, identify local species, and learn their unique life cycles.

Section 5 - Birds: learn some physical and behavioral characteristics of birds while examining adaptations and niches.

Section 6 - Human influence: is a section of the program that highlights the amazing matrix connecting all species and the environment. Minimum impact camping, USACE healthy management and use practices, and conservation efforts emphasize human influence and responsibility.

DATES NORMALLY HELD: With school and other groups upon request; seasonal programs in parks June-August

CONTACT INFORMATION

Philpott Lake
1058 Philpott Dam Road
Bassett, VA 24078

Susanne Hicks
Phone: 276-629-4512 ext. 228
Email: susanne.m.hicks@saw02.usace.army.mil



US Army Corps
of Engineers
Wilmington District

Environmental Resources Section Wilmington District

Environmental Operating Principles



OBJECTIVE: To inform the Public of the U. S. Army Corps of Engineers' 7 Environmental Operating Principles and to demonstrate examples of how they have been applied.

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: This display consists of 7 laminated, framed, posters that show each of the 7 Environmental Operating Principles and how they have been incorporated into various projects. A specific project is highlighted on each poster. Due to the size of this exhibit its use is limited to events where a large space is available, unless of course only 1 or 2 of the posters are needed. Also, the District does not currently have 7 easels on which to place the entire exhibit at one time, so if all 7 posters are needed, they would have to be mounted on a wall or in some other manner.

DATES NORMALLY HELD: No specific dates. The District display is available for use at conferences, meetings, fairs, festivals, schools, etc.

CONTACT INFORMATION

Jenny Owens
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U. S. Army Corps of Engineers
P. O. Box 1890
Wilmington, NC 28402-1890



US Army Corps
of Engineers
Wilmington District

Jordan Lake
Wilmington District
Moncure, North Carolina
(Jordan Lake
Educational State Forest)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: The objective defined by the NC Division of Forest Resources is “to teach children and adults about the complex, interdependent ecosystems which make up a forest and which can be managed for a multitude of uses (http://www.dfr.state.nc.us/esf/jlesf/jlesf_education.htm, last accessed 17 Sep 03).”

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 3, 6

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: Rangers at the Jordan Lake Educational State Forest lead a variety of classes concerning the forest environment such as soils, water, wildlife, timber, and forest management. The classes meet various Department of Public Instruction (D.P.I.) social studies and science objectives. The forest also has interpretive displays and two trails called the “Talking Tree Trail” and the “Forest Demonstration Trail.” The forest also serves as host to several partnership events with the Area III NC Soil and Water Conservation District and the Corps.

DATES NORMALLY HELD:
Year Round

CONTACT INFORMATION

Carmen Boyette
Jordan Lake
PO Box 144
Moncure, NC 27559
Phone: 919-542-4501 extension 27
Email: Carmen.B.Boyette@saw02.usace.army.mil

ADDITIONAL INFORMATION: See the following websites:
http://www.dfr.state.nc.us/esf/jlesf/jlesf_education.htm
http://www.dfr.state.nc.us/esf/jlesf/jlesf_home.htm



**US Army Corps
of Engineers**
Wilmington District

Falls Lake Wilmington District Wake Forest, North Carolina (Resource Conservation Workshop)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: The Resource Conservation Workshop offers a high school student from each NC county the opportunity to learn about conservation through a five-day study in management of wildlife and fisheries, soils, forest management, water quality, non-agricultural uses for soils and watershed management.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 6, 7

TARGET GROUP: High School Sophomores, Juniors, and Seniors

PROGRAM/SITE FEATURES: The Resource Conservation Workshop consists of classes at North Carolina State University and field trips in Wake County. Students are housed on NCSU campus dorms with guidance of live-in counselors. Cash awards and scholarships are awarded at the end of the workshop.

DATES NORMALLY HELD: June

CONTACT INFORMATION:

**Division of Soil and Water Conservation
1614 Mail Service Center
Raleigh, North Carolina 27699-1614
Phone: 919 - 733-2302**

ADDITIONAL INFORMATION: See the following website:

<http://www.ee.enr.state.nc.us/guide/resconserv.htm>



**US Army Corps
of Engineers**
Wilmington District

Falls Lake Wilmington District Wake Forest, North Carolina (The World of Water)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: To demonstrate to students the small percentage of the earth's water that is potable and why water conservation is increasingly more important.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 3, 6, 7

TARGET GROUP: Elementary/Middle School students

PROGRAM/SITE FEATURES: Semi-portable display that physically divides up an amount of water to demonstrate the ratio of saltwater to freshwater, and the ratio of potable freshwater to that which is polluted beyond restoration.

DATES NORMALLY HELD: Used at the City of Raleigh's WaterFest in May, best used outdoors in a fair/festival setting.

CONTACT INFORMATION:

Dana Lee
Falls Lake
11405 Falls of Neuse Road
Wake Forest, NC 27615
Phone: 919/846-9332 ext. 224
Email: Dana.P.Lee@usace.army.mil

ADDITIONAL INFORMATION: See the following website:

<http://www.saw.usace.army.mil/Falls/index.htm>



US Army Corps
of Engineers
Wilmington District

Environmental Resources Section Wilmington District

District-Wide Display



OBJECTIVE: To provide the Public with an overview of the Wilmington District's efforts in environmental stewardship, protection, compliance, and restoration.

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: The District-wide display, which highlights a variety of Wilmington District programs and projects, demonstrates the importance of the environment in fulfilling our goals and objectives. Specifically, the display includes/addresses the following: a North Carolina map that shows the Wilmington District boundary and the location of all lake projects, a list of our areas of responsibility, preservation of cultural resources, fire as a management tool, partnering with resource agencies, providing quality outdoor recreation, environmental education programs, protecting endangered/threatened species, restoring contaminated sites, improving fish passage, protecting/constructing wetlands, and conducting biological monitoring.

DATES NORMALLY HELD: No specific dates. The District display is available for use at conferences, meetings, fairs, festivals, schools, etc.

CONTACT INFORMATION

Jenny Owens
Environmental Resources Section
U. S. Army Corps of Engineers
P. O. Box 1890
Wilmington, NC 28402-1890

ADDITIONAL INFORMATION The District display was created in a manner that will allow it to be easily modified, customized or updated.



**US Army Corps
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Wilmington District

John H. Kerr Reservoir

Wilmington District
Boydton, VA

Joseph S. J. Tanner II Environmental Education Center

"Our mission is to provide a dynamic educational program that promotes an understanding of the US Army Corps of Engineers commitment to environmental stewardship and sustainability."

OBJECTIVE: To promote public stewardship by offering environmental education in four of the areas of natural resources management responsibilities of the US Army Corps of Engineers at John H. Kerr Reservoir.



ENVIRONMENTAL OPERATING PRINCIPLES: 1, 6, and 7

TARGET GROUP: All ages, pre-K to Adult

SITE FEATURES: Tanner Center is situated at Kerr Dam, overlooking the Roanoke River and Buggs Island. Still in its infancy, the Center offers custom education experiences with a wooded, forestry study area, a nature trail, a bird observation deck, access to hydropower and dam study, a "living history" display of an old diesel engine tug boat, and a small outdoor amphitheater.



PROGRAM FEATURES: The Tanner Center staff designs age appropriate learning experiences on demand, working with the teacher for her or his specific instructional needs. The focus is in natural resources studies, earth science, hydrology, and fieldwork. Subjects include: forestry, herpetology, mycology, ornithology, aquatic studies, and wildlife. Hands-on activities are combined with lectures in an outdoor setting. The interior of the Tanner Center has displays on indigenous flora and fauna, including live snakes and mounted specimens.

SCHEDULE:

1 October – 1 May, open Monday – Friday, 10 – 5.

2 May – 30 September, open Wednesday – Sunday, 10 – 5.

CONTACT INFORMATION:

Sherrie Storm, Park Ranger

US Army Corps of Engineers, John H. Kerr Reservoir

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(434) 738-6143 x 151



**US Army Corps
of Engineers**
Wilmington District

Environmental Reading Wilmington District Philpott Lake Bassett, Virginia

“A truly good book teaches me better than to read it. I must soon lay it down, and commence living on its hint. What I began by reading, I must finish by acting.”

Henry David Thoreau



OBJECTIVE: Promote reading and a greater understanding of the environment

ENVIRONMENTAL OPERATING PRINCIPLES: 6

TARGET GROUP: Ages 3-10

PROGRAM/SITE FEATURES: Through the use of the Smithsonian’s Backyard book series and other nature related books, we hope to excite children to read thus opening a world of wonder for children intrigued by wildlife. “These entertaining stories have an educational message that answers the many questions about the habits and habitat of the animals in our own backyards.” Arts and crafts, a nature hike/outdoor activity, and discussion follow.

DATES NORMALLY HELD: With school and other groups upon request, seasonal programs in parks June-August

CONTACT INFORMATION

**Susanne Hicks
Philpott Lake
1058 Philpott Dam Road
Bassett, VA 24078
Phone: 276-629-4512 ext 228
Email: susanne.m.hicks@saw02.usace.army.mil**



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott
Wilmington District
Wilkesboro, North Carolina
(Flood Control in the Yadkin River
Basin, an Historical Perspective)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Educate visitors on the need for flood control on the Yadkin River while providing information on the project itself and the Corps involvement in protection of natural and economic resources.

ENVIRONMENTAL OPERATING PRINCIPLES:

1,2,3,4,5,6,7

TARGET GROUP:

All Ages

PROGRAM/SITE FEATURES:

This program is used as a general overview of the W. Kerr Scott project; answering questions such as why there was a need for the project, how it came about, and what it provides to residents. The media presentation discusses the Corps part in this project while providing a basic understanding of its mission and responsibilities in regards to controlling floodwaters on the Yadkin River.

DATES NORMALLY HELD:

Upon Request (approximately 8 times per year)

CONTACT INFORMATION

Miriam Fleming
W. Kerr Scott
499 Reservoir Rd.
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Phone: 336.921.3390
Email: Miriam.Fleming@saw02.usace.army.mil

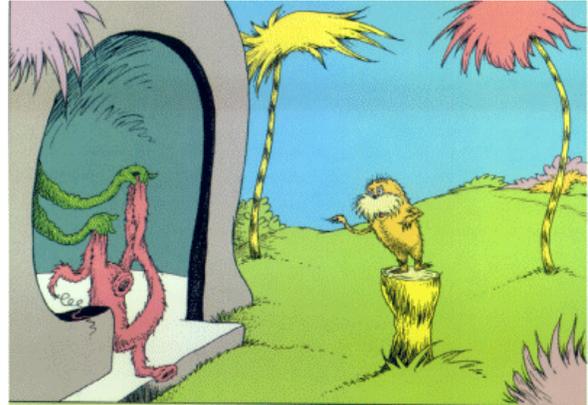
ADDITIONAL INFORMATION:



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott
Wilmington District
Wilkesboro, North Carolina
(Lessons of the Lorax—Taking
Responsibility for our Sustainable
Resources)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Foster a sense of responsibility towards the environment through a better understanding of the interconnectedness of all things while encouraging informed reflection and discussion.

ENVIRONMENTAL OPERATING PRINCIPLES:

1,2,3,4,5,7

TARGET GROUP:

Under 12
Over 12

PROGRAM/SITE FEATURES:

Because the topic is relevant to all ages, this program is presented differently to accommodate the audiences' level of understanding. Begin by discussing *The Lorax* by Dr. Seuss, what he hoped to accomplish, and public response to the story. After reading the story or watching the video, pose a series of questions regarding the parallels between the story and current environmental issues. Discuss how we can influence choices made by industries and government towards environmental policies, individually or as a group.

DATES NORMALLY HELD:

Weekends Memorial Day through Labor Day (approximately 4 times per summer)
Upon Request

CONTACT INFORMATION

Miriam Fleming
W. Kerr Scott
499 Reservoir Rd.
Wilkesboro, NC 28697
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Email: Miriam.Fleming@saw02.usace.army.mil

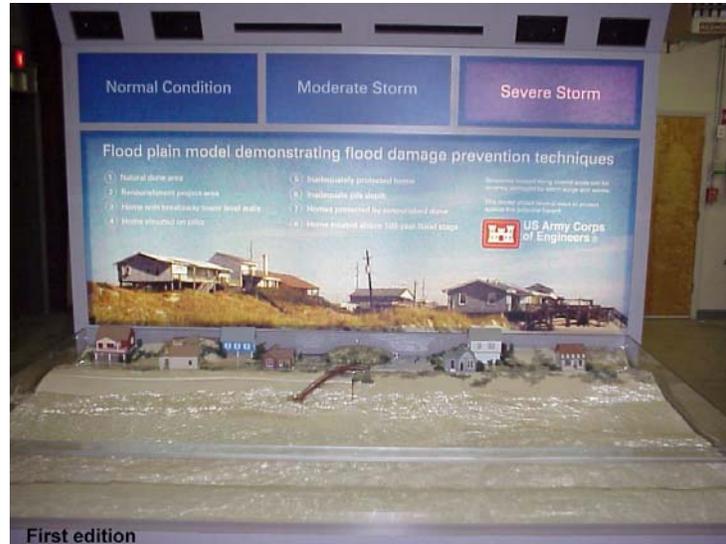
ADDITIONAL INFORMATION:



US Army Corps
of Engineers
Wilmington District

Planning Services Section Wilmington District

Storm Surge Model



OBJECTIVE: To demonstrate to the public storm surge damage prevention techniques.

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: Model's purpose is to provide a dynamic demonstration of hurricane surge related hazards experienced by many coastal residents and businesses located along the nation's coastlines, and protection measures for coastal development from those hazards. Buildings fall, breakaway walls collapse, and dunes erode away to demonstrate surge hazards. A storm intensity indicator is integrated into a signboard to show viewers the intensity of the storm event as it progresses from "normal," to "moderate," to "severe" storm conditions. Waves of varied stage, intensity, and frequency are created by a wave generator. The model has narration, a sound system, and blowers to add to the realism of the storm events. It is a floor exhibit, approximately 4 feet by 7 feet, built for the Wilmington District, U.S. Army Corps of Engineers.

DATES NORMALLY HELD: No specific dates. The model is available for use at multiple day conferences, meetings, fairs, festivals, etc., indoor only.

CONTACT INFORMATION

Mr. Bobby Willis
Planning Services Section
U. S. Army Corps of Engineers
P. O. Box 1890
Wilmington, NC 28402-1890



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott Wilmington District Wilkesboro, North Carolina (Nature Scavenger Hunt)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Teach younger visitors to step inside nature and observe signs and evidence of forest inhabitants while learning how our careless actions caused by inattention can alter life for even the smallest creature.

ENVIRONMENTAL OPERATING PRINCIPLES:

1,3,6

TARGET GROUP:

Under 16

PROGRAM/SITE FEATURES:

Conducted on either Dark Mountain or the Overmountain Victory Historic Trail, children are given a handout to record their observations. Visitors are briefed on their status as “visitors” in the forest home. Children and adults are encouraged to use their sense of sight and sound to detect life in the forest. We look for different types of homes, tracks, scat, hair, bones, and partially eaten food. Hearing is used to detect birdcalls, chatter, and movement. If we are lucky, animal sightings may occur. Throughout the program, we encourage discussion on how life in the forest functions, how animals conduct daily life, and why each element is important to the survival of the whole ecosystem.

DATES NORMALLY HELD:

Memorial Day through Labor Day (approximately 8 times per season)
Upon Request (approximately 8 times per year for scout groups)

CONTACT INFORMATION

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Wilkesboro, NC 28697
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ADDITIONAL INFORMATION:



US Army Corps
of Engineers
Wilmington District

Falls Lake
Wilmington District
Wake Forest, North Carolina
(Falls Lake State Recreation Area)



Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.

OBJECTIVE: The North Carolina State Parks System exists for the enjoyment, education, health and inspiration of all our citizens and visitors. One mission of the state parks system is, to provide environmental education opportunities that promote stewardship of the state's natural heritage.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 3, 6

TARGET GROUP: Falls Lake Visitors

PROGRAM/SITE FEATURES: Four campgrounds with both individual and group camping, three day use areas. Three amphitheatres throughout campgrounds, and the community building on the lakeshore at Rolling View provide for group presentations. The community building has a meeting room, kitchen facilities and restrooms.

DATES NORMALLY HELD: Programs are held year-round, however the majority are offered during the recreation season (May – October).

CONTACT INFORMATION:

North Carolina Division of Parks and Recreation
Falls Lake State Recreation Area
13304 Creedmoor Road
Wake Forest, NC 27587
Phone: (919) 676-1027
Email: falls.lake@ncmail.net

ADDITIONAL INFORMATION: See the following website:

<http://www.ils.unc.edu/parkproject/visit/fala/home.html>



US Army Corps
of Engineers
Wilmington District

Watersheds Wilmington District Philpott Lake Bassett, Virginia

“The life of every river sings its own song, but in most the song is long marred by the discords of misuse.”

Aldo Leopold



OBJECTIVE: Promote awareness, knowledge, and appreciation for environmental stewardship; discuss USACE practices that affect and shape watersheds and aquatic ecology

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 2, 6, 7

TARGET GROUP: Program can be modified for any age

PROGRAM/SITE FEATURES: This program encompasses multiple themes that can be taken in part or as a whole. Material content is available for all age groups. Attendees will learn about the water cycle, watersheds, pollution sources, water quality, aquatic life, and conservation efforts. An EnviroScope model, experiments, and public participation demonstrate characteristics of surface and ground water, runoff, point and non-point pollution, watersheds, and more. The use of reptiles and amphibians emphasizes the delicate relationship between pollution and habitat alterations on species health and survival. There are discussions on USACE’s role in wetlands, regulatory, and environmental compliance. In addition to reptiles and amphibians, we will explore many aspects of aquatic life that includes insects, fish, habitat, and more. An angling education program incorporates many of the bulleted points from these categories while promoting healthy fisheries management techniques.

DATES NORMALLY HELD: With school and other groups upon request; seasonal programs in parks June-August

CONTACT INFORMATION

Susanne Hicks
Philpott Lake
1058 Philpott Dam Road
Bassett, VA 24078
Phone: 276-629-4512 ext 228
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**US Army Corps
of Engineers**
Wilmington District

Falls Lake Wilmington District Wake Forest, North Carolina (Hidden Treasures)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: To introduce participants to outdoor elements of the North Carolina Piedmont and challenge them to use senses other than sight to identify those elements.

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 6, 7

TARGET GROUP: Elementary school students

PROGRAM/SITE FEATURES: Portable, ~12-foot long display with 12 “hidden areas” that contain various elements of the outdoors (leaves, acorns, turtle shell, bird’s nest, deer antler, etc.). Also has appropriate questions and bits of information for each item to guide participant to guess the hidden item correctly.

DATES NORMALLY HELD: Festivals/Fairs, Indoors or outdoors

CONTACT INFORMATION:

Dana Lee
Falls Lake
11405 Falls of Neuse Road
Wake Forest, NC 27615
Phone: 919/846-9332 ext. 224
Email: Dana.P.Lee@usace.army.mil

ADDITIONAL INFORMATION: See the following website:

<http://www.saw.usace.army.mil/Falls/index.htm>



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott
Wilmington District
Wilkesboro, North Carolina
(Where Did that Come From?
A Look at Marine Debris and
Its Flow Patterns)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Demonstrate the effects of pollution on our waterways, its cost to nature and to recreational users, while providing realistic individual measure to reduce the incidence of marine debris.

ENVIRONMENTAL OPERATING PRINCIPLES:

1,2,4,5,6

TARGET GROUP:

All Ages

PROGRAM/SITE FEATURES:

Through the use of media as well as hands-on objects, discuss how debris ends up in our waterways, what types travel farthest, and where marine debris from our coast has been tracked. Discussions include the introduction of new diseases carried on trash, the effect of plastics on aquatic life, and things we can do to reduce the effects of pollution on our waterways. On-hand for viewing are a display of strange debris found on the waters of our project.

DATES NORMALLY HELD:

Weekends Memorial Day through Labor Day (approximately 4 times per season)
Upon Request

CONTACT INFORMATION

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ADDITIONAL INFORMATION:



**US Army Corps
of Engineers**
Wilmington District

W. Kerr Scott
Wilmington District
Wilkesboro, North Carolina
(Music of the Night)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE:

Familiarize visitors with diversity of nocturnal creatures through vocalization and visualization.

ENVIRONMENTAL OPERATING PRINCIPLES:

2,3,6

TARGET GROUP:

All Ages

PROGRAM/SITE FEATURES:

Based on the fact that there are more creatures out at night than in the daytime, this program seeks to familiarize our visitors with some of the more common and some not so common residents in the North Carolina foothills. Focusing on listening, the audience is led through a series of sounds commonly heard throughout the campground. Once identified, the nocturnal nature of each animal, bird, or insect is discussed providing a basic understanding of each creature's behaviors and adaptations. We also discuss habituation versus conditioning, how these two behaviors are different, and their effects on humans and animals alike.

DATES NORMALLY HELD:

Weekends Memorial Day through Labor Day (approximately 4 times per season)
Upon request all other times

CONTACT INFORMATION

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ADDITIONAL INFORMATION:



US Army Corps
of Engineers
Wilmington District

Jordan Lake
Wilmington District
Moncure, North Carolina
(NC State Parks)

Corps mission is conserve those natural resources, consistent with the ecosystem management principles, while providing quality public outdoor recreation experiences to serve the needs of present and future generations.



OBJECTIVE: The objective defined by the North Carolina Division of Parks and Recreation is “to provide environmental education opportunities that promote stewardship of the state's natural heritage (<http://www.ils.unc.edu/parkproject/explore/division.html>, last accessed 19 Sep 2003).”

ENVIRONMENTAL OPERATING PRINCIPLES: 1, 3, 6

TARGET GROUP: All ages

PROGRAM/SITE FEATURES: Rangers present environmental education programs to the general public on a monthly basis and to organized groups on a requested basis. Program topics include animal tracks, bald eagles, fishing, maps and compasses, aquatic adventures, predators and prey, raptors and amphibians, and nature hikes. Annually rangers present a program called “Predators and Prey” as part of the NC Division of Parks and Recreation Environmental Education Learning Experience Program (EELE). EELE programs are designed for educators and meet certification criteria for the NC Environmental Education Certification Program.

DATES NORMALLY HELD:

Year Round

CONTACT INFORMATION

Carmen Boyette
Jordan Lake
PO Box 144
Moncure, NC 27559
Phone: 919-542-4501 extension 27
Email: Carmen.B.Boyette@saw02.usace.army.mil

ADDITIONAL INFORMATION: See the following websites:

<http://www.ils.unc.edu/parkproject/visit/jord/do.html>

<http://ils.unc.edu/parkproject/explore/division.html>