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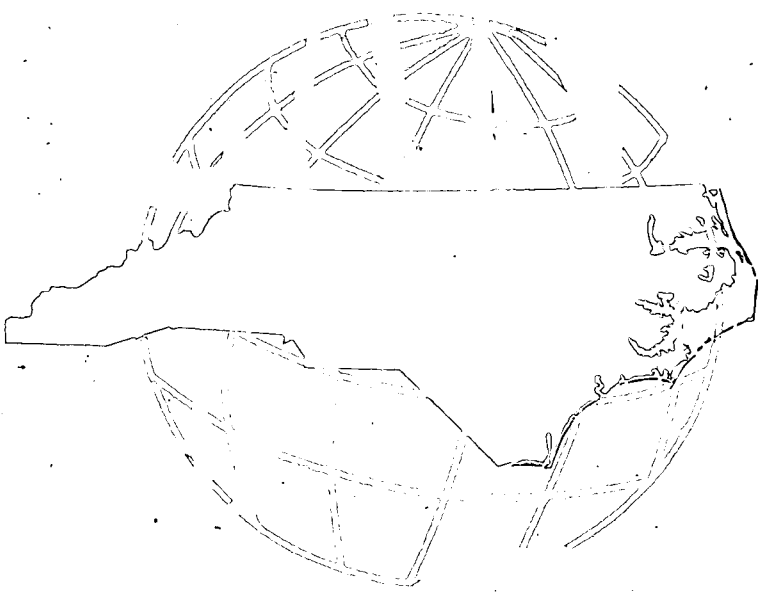
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ABSTRACT

The North Carolina Environmental Education Plan evolved from the ideas and suggestions of hundreds of people across North Carolina with over 1,300 individuals, businesses, organizations, and government agencies participating in the process. The first section of this document, Principles and Concepts of Environmental Education, outlines the principles and definition of environmental education, states the overall goals, and sets the stage for the presentation of the statewide plan's objectives and implementation strategies. The second section, Objectives of Environmental Education, includes the following topics: in-service professional development, pre-service teacher education, higher education, clearinghouse, curriculum correlation, model library collection, North Carolina environmental data, measures and evaluation, environmental education centers, government agencies, funding, partnership, the media, and adult education. Also included are a list of participants, draft committee, and enabling legislation. (JRH)

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# THE NORTH CAROLINA ENVIRONMENTAL EDUCATION PLAN

APRIL 1995

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# THE NORTH CAROLINA ENVIRONMENTAL EDUCATION PLAN

APRIL 1995

North Carolina Department of Environment, Health and Natural Resources

The Honorable James B. Hunt, Governor

Jonathan Howes, Secretary

Steve Levitas, Deputy Secretary

Anne Taylor, Director

Office of Environmental Education

Denis DuBay, Ph.D., Editor

The North Carolina Environmental Education Plan evolved from the ideas and suggestions of hundreds of people across North Carolina. Every comment has been documented and compiled by the staff of the Office of Environmental Education. Over 1,300 individuals, businesses, organizations and government agencies participated in the process during the past 18 months. This plan represents the collective thinking of these North Carolinians.

A partnership between the North Carolina Department of Environment, Health and Natural Resources, the Wildlife Resources Commission and the Department of Public Instruction established the credibility of this process. The trust and confidence in the process is evidenced by the scope of participation and the diversity of interests represented. The implementation of the North Carolina Environmental Education Plan is dependent upon continued trust and the translation of that trust into long-term working relationships.

North Carolina's future depends on a better understanding of our environment. This plan is an investment in that future.

The staff of the Office of Environmental Education enjoyed the rare privilege to have carried out the legislative responsibility for the development of this statewide plan. As the scribes and guardians of the hopes and experiences of North Carolina's finest, we believe this document reflects the quality of their commitment to the value of environmental education.

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North Carolina values the quality and health of its environment. The 1973 Environmental Education Act produced a 1974 Master Plan for Environmental Education. The Office of Environmental Education was formed in 1990. North Carolina joined over 30 other states in passing environmental education legislation when the General Assembly enacted the North Carolina Environmental Education Act in 1993. The Act calls upon the Department of Environment, Health and Natural Resources (DEHNR) to work with the Department of Public Instruction (DPI) and other state and federal agencies, business and industry, institutions and citizens groups to plan and implement a statewide program. This plan was developed in response to that legislation.

The purpose of this section is to outline the principles and definition of environmental education, state the overall goal and set the stage for the presentation of the statewide plan's objectives and implementation strategies.

### 1.1 - RATIONALE

North Carolina is a diverse land with natural and cultural aesthetic appeal for residents and visitors alike. It is also a land experiencing competition for its natural resources and for the control of land and water. This competition is particularly evident in the development of fragile mountain and coastal

environments. Conflicts arise over the use of wetlands, property rights, water supplies, air quality and waste disposal.

North Carolina's population increases by 200,000 annually, the equivalent of adding another Greensboro every 12 months. There will be as many as 7.4 million people living in North Carolina by the year 2000. Growing seasonal populations produced a 79% increase in tourism dollars spent here from 1983 to 1993. North Carolina's increasing residential and visiting populations mean more demand for natural resources and increased pressure on the natural environment due to land development, the growing production of waste and the recreational use of natural areas.

North Carolina's natural resources are under stress and could be lost to us in the absence of a widespread awareness of their existence, their significance and their value. Government officials, business leaders and private citizens must better understand the complexity of the natural ecosystems that support our quality of life and make this state an appealing place to live, work and visit.

These resources are not isolated from each other or from our people; each element is part of the ecosystem, interrelated and interconnected. When one part of the system is affected, other parts feel the impact. Sound development decisions require an understanding of these interconnections as well as of the life-support roles played by our natural resources.

Some highlights of North Carolina's natural heritage illustrate the importance of providing environmental education and instilling a strong sense of stewardship.

- The accident of history that placed the boundaries of North Carolina along the Southern Appalachians and between the 30- and 40- degree parallels of latitude north of the equator created one of the most diverse environments of the 50 states. Climate and geology combine to create varied habitats for animal and plant life, ranging from the boreal conditions of the highest mountains east of the Mississippi River to the subtropical conditions of Bald Head Island.<sup>1</sup>



■ Tourism brings \$60 million to western North Carolina's Swain County due in part to the attraction of the Great Smoky Mountains and the exciting Nantahala River. According to the U. S. Forest Service the white water season on the Nantahala generated \$42 million in 1993. However, these resources show signs of stress from overuse. As a result, no more than 6,950 rafters are allowed on the river per day. Tourists and residents driving and living in the area also contribute to the air pollution that injures 90 or more species of plants in the Great Smoky Mountains National Park and degrades the quality of scenic mountain vistas across the region.<sup>2</sup>

■ North Carolina's soils are among the most diverse in the nation, ranging from day-old Outer Banks sands, young mountain soils and high organic Tidewater Blacklands, to the oldest, high clay soils of the Piedmont. These diverse soils, coupled with subtropical to subarctic climate ranges, allow this state to yield almost any agricultural commodity imaginable. Better understanding and management of the soil's physical, chemical and biological properties will ensure the state's agricultural economic viability while protecting surface and underground water resources.<sup>3</sup>

■ Within the 130,000 acres of our state parks system is the tallest mountain east of the Mississippi, the largest sand dune on the East Coast and the second oldest river in the world. These natural, unique and compelling attractions bring a growing number of visitors and a corresponding demand for services. This growth requires careful management of visitors and resources in existing parks, and may require development of new parks to relieve stress in overcrowded areas.<sup>4</sup>





- North Carolina ranks third in the nation with 2.4 million acres of estuarine waters. They comprise one of the most productive estuarine systems in the country --- the nursery area for fish species contributing to our state's billion dollar fishing industry. Studies indicate excess nutrient loadings from a myriad of sources increase algal levels, cause fish kills, odors, habitat loss and generally diminish water quality.<sup>5</sup>
- The state has unparalleled aquatic biodiversity --- in our mountain stream beds, riverine wetlands, piedmont lakes and ponds, coastal plain pocosins and salt marshes and the confluence of the Gulf Stream and the Labrador Current off Cape Hatteras. Effective management of the pressures to drain wetlands, degrade surface and underground waters and alter natural aquatic habitats requires a thorough understanding of the significance of these resources to people, wildlife and our life-supporting ecosystem.<sup>6</sup>
- North Carolina has more kinds of hardwood trees than any other state in the nation. Yet public forests can no longer meet demands for timber and other uses, requiring the state to turn to privately owned forests for timber, wildlife habitat and recreation.<sup>7</sup>
- North Carolina has more species of salamanders than any place in the country, but the numbers of these fascinating creatures decline year by year. Historical records indicate a 75% reduction in the range of one of the species, the eastern tiger salamander. North Carolina is also home to the world's tiniest tarantula, which is in danger of becoming extinct within five years. Even the smallest living creatures --- like canaries in a mine --- indicate the health of our ecosystem.<sup>8</sup>



- North Carolina is the northern-most state where sea turtles nest in significant numbers, and the cooler temperatures here produce proportionately more male sea turtles than anywhere else in the nation. Loss of these nesting areas threatens the continued existence of sea turtles and their male offspring.<sup>9</sup>

The cause and effect relationship between human behavior and the environment and the economics of that relationship must be well understood by decisionmakers - including individuals, business, industry, government, elected officials - if we are to instill a conservation ethic and a sense of stewardship into the choices facing the state. Such stewardship of our land, water, air and biological resources is required for us to continue to enjoy the quality of life we now have and to ensure future improvements.

Environmental policy is often viewed as regulatory in nature. The coercive powers of the state are limited, and no regulatory initiative that presses these limits can long survive. Environmental quality ultimately depends upon the understanding and support of individual and corporate citizens who come to embrace standards and practices that discourage pollution while they prize high quality air, water and soil. This relationship between knowledge of the environment and support for its protection form a basis of public policy development. Both the Governor's Coastal Futures Committee and the Pollution Prevention Advisory Council have identified environmental education as a positive and effective approach to better stewardship of the environment. While the need for education to improve our understanding of ecology and environment is accepted as important, the prospect of such an endeavor brings many different images to the minds of citizens.

**"The coercive powers of the state are limited, and no regulatory initiative that presses these limits can long survive."**

## 1.2 - GOAL

The goal of environmental education in North Carolina is to have a citizenry with the knowledge, understanding and skills necessary to nurture this "goodliest land under the cope of heaven" through sound decision-making and responsible stewardship of North Carolina's environment.

## 1.3 - PRINCIPLES OF ENVIRONMENTAL EDUCATION

The effect of state, national and international deliberations are captured in *Caring for the Earth*, a strategy published in 1991 through a partnership of the United Nations Environment Program and other organizations. The message and principles of that document relevant for North Carolina follow.

"Humanity must live within the carrying capacity of the Earth. There is no other rational option in the longer term. Unless we use the resources of the Earth prudently, we deny people their future. We must adopt lifestyles and development paths that respect and work within nature's limits. We can do this without rejecting the many benefits that modern technology has brought, provided that technology itself works within those limits. . . ."

Understanding and applying this concept of carrying capacity is a foundation of environmental education. It requires us to learn how to integrate conservation and development in seeking the goal of improved health and quality of life for all citizens, and stewardship of ecological systems that make human health and quality of life possible. The following principles of environmental education derive from this foundation.

**Respect and care for the community of life.**

All things are connected. When something affects one part of the environment, other parts feel the impact. The more we understand and respect our own community, the better we will understand this interconnectedness and our responsibilities to the global community of life.

**Improve the quality of human life.**

The aim of development is to improve the overall quality of human life. Development must enable all people to realize their potential and lead lives of dignity and fulfillment. This kind of development requires a healthy and robust supporting ecosystem.

**Conserve North Carolina's vitality and diversity.**

*Renewable natural resources* are the base of all economies. Soil, water, air, timber, medicines, plants, fish, wildlife and domesticated species -- all come from natural systems and can be maintained through conservation.

*Life support systems* are the ecological processes that shape climate, cleanse air and water, regulate water flow, recycle essential elements, create and regenerate soil and keep our environment fit for life. We must prevent pollution and degradation of these ecosystems as well as the natural plant and wildlife habitats they provide.

*Biological diversity* includes the total array of species, genetic varieties, habitats and ecosystems on Earth. It contributes to our quality of life, including a healthy economy. It is a foundation of the Earth's biosphere, buffering us from the inevitable changes in the environment.

**Change personal understanding and practice.**

Society must promote values that build and support its ability to continuously improve the quality of living for its citizens. This requires maintaining the quality and integrity of our natural environment. Knowledge, awareness and decision-making skills must be taught through formal and non-formal education to promote problem solving and constructive action to nurture the life-giving qualities of our ecosystem.

**Enable communities to care for their own environment.**

Living within the limits set by the environment depends on the beliefs and commitment of individuals, but it is through communities that people share concerns and promote practices that can nourish rather than cripple their natural life-support systems.

## **Provide a state and local knowledge base for integrating development and conservation.**

Economic policy can be an effective instrument for sustaining ecosystems and natural resources. Every economy depends on the environment as a source of life support and raw materials. The knowledge base for each city, county and the state must be strengthened, and information on environmental matters made more accessible.

For North Carolinians to translate "caring for this goodliest land" into practice, the State's adult and student populations must understand certain ecological and civics concepts, and North Carolina's place within those concepts.

### **1.4 - DEFINITION OF ENVIRONMENTAL EDUCATION**

The following definition of environmental education was crafted by the DEHNR Environmental Education Advisory Council, a group of approximately fifty environmental educators and program managers from operating divisions within DEHNR and the Wildlife Resources Commission.

Environmental Education is an active process that increases awareness, knowledge and skills that result in understanding, commitment, informed decisions and constructive action to ensure stewardship of all interdependent parts of the earth's environment.

The goals, principles and concepts of environmental education are learned through formal and non-formal education. North Carolina's environmental education program should address both avenues of learning for adults and young people alike.

### **1.5 - CHARACTERISTICS OF ENVIRONMENTAL UNDERSTANDING**

Strategies to implement environmental education in formal or non-formal settings contain certain essential characteristics. These characteristics also describe an environmentally aware and prepared citizenry. First among these are knowledge and skills in the key areas of ecology, civics, social studies, mathematics, technology and science. With basic knowledge and skills in place, the commitment to individual and corporate responsibilities for each other and the environment can develop. Finally, environmental stewardship depends upon the ability to resolve conflicting interests, make decisions and take action.

A course of preparation for environmental stewardship appropriate for any age includes learning in the natural and social sciences and the humanities. Hands-on experiences are the best way for students to build understanding of the complex world around them and their place in it. These include energy, minerals, land, soil, water, atmosphere, aquatic and terrestrial plant and animal communities, weather, climate, biogeochemical cycles, biodiversity, evolution, extinction, food webs, habitats and populations. These investigations must have humans and their interactions with natural systems as part of the exercise and must not be taught as separate components. This emphasis will bring into focus questions about population, technology, renewable natural resources, nonrenewable natural

**"Hands-on experiences are the best way for students to build understanding of the complex world around them and their place in it."**

resources, manufacturing, transportation, agriculture, construction, communication, education, government action and community stewardship.

## **1.6 - EVALUATION AND FEEDBACK**

North Carolina's environmental education programs must be accountable to the Governor and the Legislature, to local and state government leaders and to the citizens of the state. Progress reports, statewide and local evaluations and public surveys will ensure accountability.

Although statewide baseline and follow-up measurements will be taken, matching these to local community measures adds relevance and ownership to the process. Moreover, encouraging and connecting to community-based evaluation provides a stimulant for local action to enhance environmental stewardship. Thus, developing statewide measures will involve drawing on local and regional resources for ideas and implementation strategies.



## **1.7 - THE DEVELOPMENT PROCESS**

This North Carolina Environmental Education Plan is the culmination of an 18 month process that began with the drafting of environmental education principles and concepts in October 1993 and continued through a statewide conference and regional meetings that concluded in March 1995. Yet the roots of this plan reach back at least to the 1973 Environmental Education Act and the resulting 1974 Master Plan for Environmental Education. Early milestones also included the formation of an

Office of Environmental Education in 1990, and the 1993 North Carolina Environmental Education Act, which mandated the production of this plan.

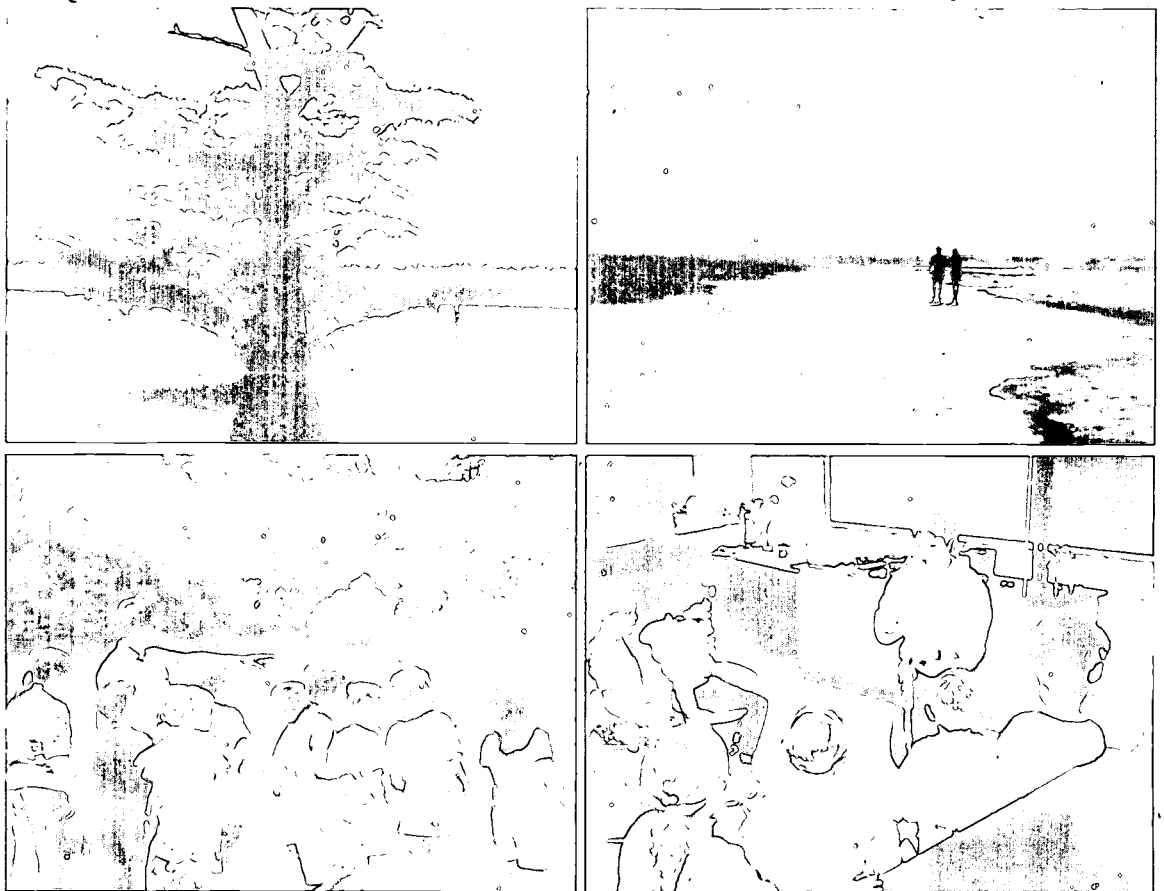
The process leading to this point embraced an ever-widening audience of interested organizations and individuals. It began with the Environmental Education Advisory Council (EEAC), made up of professionals from the divisions of DEHNR and the Wildlife Resources Commission and a drafting committee from this group that shaped the *Framework for Discussion of a North Carolina Environmental Education Plan*. As this draft was taking shape, it was presented to many public and private organizations and appointed bodies for their information and feedback.

In December 1994 over 700 educators, business leaders, government officials and environmental resource professionals from across North Carolina met in Research Triangle Park to consider the draft *Framework*. Participants discussed each objective of the plan in special concurrent sessions, and detailed recommendations were prepared for each objective. The discussion quickly branched out across the state in seven regional environmental education meetings held in Asheville, Grantsboro, Mooresville, Wilmington, Wilson, Fayetteville and Winston-Salem during February and March 1995. Over 1,300 individuals attended the statewide conference or one of these regional meetings. Numerous others participated in the discussions by providing their ideas and recommendations directly to the Office of Environmental Education.

Following presentation to the Governor and the North Carolina General Assembly in April, 1995, the momentum gained during the development and review process will be directed towards implementation. This will require collaborative and concerted efforts of all organizations and individuals who care about North Carolina. Annual progress reports and recommendations on implementation efforts will be presented to the Governor and General Assembly.

**"Over 1,300 individuals attended the statewide conference or one of these regional meetings."**





The following objectives describe specific goals, explanations and recommended actions. They represent the contributions of many individuals and organizations thinking about environmental education in North Carolina.

## 2.1 - REWARD PROFESSIONAL DEVELOPMENT IN ENVIRONMENTAL EDUCATION.

**Objective:** Establish a program to recognize and honor educators who complete a required number of professional development experiences in environmental education.

**Explanation:** Individuals who elect to take environmental education courses demonstrate a desire to develop a sense of stewardship towards North Carolina natural resources and to instill that sense of stewardship in their students. The Department of Environment, Health and Natural Resources, in cooperation with DPI and other organizations, is designing a program to recognize those educators.



**Actions:**

- Publicly recognize educators who complete 150 contact hours in environmental education with an award certificate.
- Include approved environmental education experiences and internships offered by DEHNR, community colleges, universities, nature centers and other organizations. Stress content blended with methodology, and include instruction in facilitating field trips, techniques for integrating environmental education into all curriculum areas.
- Include credit for participation in environmental education projects such as Stream Watch and Big Sweep and for teaching environmental education courses.
- Promote the expansion of environmental education opportunities which emphasize residential and technological experiences.
- Develop financial and administrative support for the professional development of educators, and for the incorporation of environmental education into the curriculum and daily experiences of students.
- Recognize schools and school systems that serve as models for promoting environmental education and that have significant teacher participation in environmental education professional development programs.
- Improve marketing and communications to inform educators of professional development opportunities in environmental education. Include distance learning, videos and other creative methods to reach and assist those in remote and under-served areas.





## 2.2 - ENHANCE ENVIRONMENTAL EDUCATION FOR PRE-SERVICE TEACHERS.

**Objective:** Improve and enhance opportunities for teacher candidates to acquire environmental education academic content and appropriate teaching tools at North Carolina's public and private colleges and universities. Promote student internships in environmental education.

**Explanation:** Teachers who have not been introduced to hands-on, experiential skills in the out-of-doors will not be inclined to bring environmental education to their classrooms. Teachers who are not comfortable teaching environmental education are not likely to seek in-service training in environmental education. Existing pre-service environmental education courses should be recognized and encouraged among North Carolina colleges and universities statewide. Where these courses are not available, faculty are encouraged to become knowledgeable about existing opportunities and resources.

**Action:**

- Maintain a directory of pre-service environmental education programs and course offerings that incorporate environmental topics, and identify departmental contacts on each campus.
- Support statewide gatherings bringing together college and university faculty, DPI curriculum and licensure specialists, K-12 teachers and curriculum coordinators, museum and science center educators and representatives of government and private organizations interested in

environmental education to discuss improvement of environmental education programs and course offerings at the state's institutions of higher education.

- Modify academic courses in which teachers enroll as well as instructional methods courses for the elementary and secondary levels to include: environmental topics and classroom curricula; hands-on and inquiry-based learning opportunities; use of local environmental and community resources; field trip experiences; and interdisciplinary environmental themes including social studies, science, mathematics and the arts.
- Develop additional partnership efforts among colleges and universities, environmental education centers, business and industry and government to include teacher internships.
- Investigate the establishment of bachelor's and master's degree environmental education programs. Encourage institutions of higher education with existing programs in environmental studies to share successes and expand opportunities.
- Identify opportunities and examine difficulties facing students receiving degrees in environmental studies and who desire to teach. Learn from the experiences of existing programs and their graduates and explore solutions to problems and ways to expand opportunities.

### 2.3 - INTEGRATE ECOLOGICAL CONCEPTS IN HIGHER EDUCATION.

**Objective:** Ensure an understanding of ecological concepts among all graduates from North Carolina institutions of higher education. Incorporate conservation practices including pollution prevention, resource recovery, waste reduction and natural resource stewardship as integral to professional conduct in any occupation.

**Explanation:** Just as environmental education should be integrated into existing coursework K-12, so it should be applied to community college, college and university coursework, regardless of the discipline. Quality of life at home and at work can benefit from a basic understanding of ecological concepts and the interdependence among all components and processes of Earth's ecosystem.

**Action:**

- Support inquiry-based instruction in environmental studies at all levels of higher education.
- Emphasize interdisciplinary content in environmental studies courses.
- Encourage institutions of higher education to improve their environmental education offerings for all students.

"Quality of life at home and at work can benefit from a basic understanding of ecological concepts."

- Incorporate environmental education into all degree programs.
- Provide institutions of higher education information about environmental education resources available to them from state agencies, environmental education centers and other sources.

## 2.4 - ESTABLISH A NORTH CAROLINA ENVIRONMENTAL EDUCATION CLEARINGHOUSE.

"Through exploration of new electronic networks and reliable print media, the clearinghouse can build effective paths to individuals, communities and groups."

**Objective:** Bring information about environmental education to students, parents and educators from kindergarten through college, as well as to business, industry and communities across the state. Use every appropriate means of communication, including electronic networks and databases.

**Explanation:** The Department of Environment, Health and Natural Resources should research and act as a clearinghouse for existing environmental education materials and resources. These materials and resources should be marketed to educators, students, parents and the general public. Through exploration of new electronic networks and reliable print media, the clearinghouse can build effective paths to individuals, communities and groups often left off the communications grapevine.

**Action:**

- Develop and maintain a North Carolina Environmental Education Clearinghouse to serve educators, students, parents and others with questions, problems, or solutions related to environmental education.
- Employ electronic communications tactics as well as more traditional means to collect all appropriate environmental education information and market this information to customers across the state. Utilize existing newsletters, bulletins, electronic networks and related media to disseminate educational information.
- Collect and disseminate information about opportunities for environmental education internships, workshops, seminars and funding. One example is the existing *Teacher's Guide to Environmental Education Programs and Resources*. Prepare pointers to direct customers to other organizations, individuals and sources with environmental education information.
- Assist North Carolina's environmental education centers in sharing successes and opportunities with one another and with citizens interested in environmental education.

## 2.5 - CORRELATE ENVIRONMENTAL EDUCATION WITH DPI'S CURRICULUM.

**Objective:** Correlate environmental education activities available through DEHNR and other agencies with the teaching objectives of all subjects in the DPI's curriculum. Make this correlation electronically accessible and available to educators free of charge.

**Explanation:** Teachers want environmental education activities that support required curriculum objectives. Correlating environmental education activities with the curriculum will assist educators with the integration of environmental education into their instructional program. Electronic access will enable educators to search by subject area, activity and curriculum objective and promote interdisciplinary instruction.

**"Teachers want environmental education activities that support required curriculum objectives."**

### **Action:**

- Maintain a current correlation of environmental education program activities with DPI's curriculum objectives.
- Provide this correlation in digital electronic formats accessible through Macintosh and DOS/Windows compatible computers. Add keywords to the correlation database.
- Expand the correlation to include additional curriculum subject areas and environmental education activities offered by DEHNR, environmental education centers and other organizations.
- Disseminate and promote the correlation. Expand awareness and access through telecommunications, clearinghouses, newsletters, conferences and the efforts of cooperating agencies and organizations.

## 2.6 - MODEL ENVIRONMENTAL EDUCATION LIBRARY COLLECTIONS.

**Objective:** Identify model environmental education library materials and tools and develop bibliographies to promote their use in schools, libraries and environmental education centers. Provide additional support through grants, resource information and technical assistance.

**Explanation:** The availability of environmental education resource materials and tools in a variety of settings --- including school media centers, public libraries, DPI's Media Evaluation Center and environmental education centers --- will reinforce teacher training programs available throughout the state. Bibliographies should be selected by a variety of professional educators who can identify resources that will reinforce training experiences and enhance inquiry-based learning experiences for students.

**Actions:**

- Offer grants to support environmental education library collections.
- Place additional emphasis on providing adult education materials and resources.
- Support environmental education library collection development and expansion through cooperative efforts among government agencies, industry and other organizations. Include appropriate materials developed by these collaborators in recommended bibliographies and collections.
- Expand awareness of environmental education resources through telecommunications, clearinghouses, newsletters and conferences.
- Investigate mobile environmental education library collections and interlibrary loan options.
- Promote and demonstrate new information technologies that expand the capabilities of teachers and students to search for and acquire environmental education resources.



**2.7 - USE NORTH CAROLINA DATA TO ENRICH ENVIRONMENTAL EDUCATION.**

**Objective:** Build the capacity to access environmental data from the State Center for Geographic Information and Analysis (CGIA) and county and municipal governments through geographic information systems (GIS).

**Explanation:** Geographic information systems (GIS) provide a strong link between North Carolina-specific environmental data, geographic mapping and a range of demographic information. Together these tools enhance environmental education through team teaching and the integration of science, social studies, mathematics and computer skills. A great wealth of environmental data is collected by state, federal and local government agencies in North Carolina. Access to this current environmental information through computerized distribution systems supported by CGIA combines relevant information with the interactive GIS technology enabling enthusiastic exploration and learning.

**Action:**

- Work with master teachers to develop and pilot K-16 classroom applications of geographic information systems as well as effective teacher professional development programs to prepare teachers to use GIS in their classrooms.
- Select and develop appropriate subsets of the North Carolina Corporate Geographic Database for use in GIS-related K-16 curricula. Make these databases available on CD-ROM and the Internet.
- Develop GIS technical specifications for equipment and data to insure that new hardware and software purchases for schools will support geographic information systems software and environmental data layers.
- Develop and promote collaborative exercises between students and local governments that use GIS to explore real-world problems and the use of technology to help create solutions.

## 2.8 - MEASURE NORTH CAROLINA'S ENVIRONMENTAL STEWARDSHIP.

**Objective:** Identify and support communities in developing strategies to assess, monitor and improve environmental quality and quality of life. Meet the state's needs for planning and performance budgeting and accountability by coordinating local community measurements with a statewide evaluation.

**Explanation:** It is important to begin measuring environmental stewardship in North Carolina in ways that value individual differences among communities. A community-based effort provides the best measure of success and an effective stimulant for local efforts. The statewide evaluation of awareness and behavior should be closely related to community measures. Caution must be exercised in attributing specific evaluation results to particular environmental education programs.

"It is important to begin measuring environmental stewardship in North Carolina in ways that value individual differences among communities."



**Action:**

- Encourage communities to set environmental education goals, evaluate achievement of their goals and demonstrate environmental stewardship.
- Recognize communities that demonstrate environmental stewardship.
- Develop a statewide environmental education evaluation closely coordinated with local evaluations. Draw on local resources to develop and conduct the statewide assessment.
- Provide a forum for communities to join together to share opportunities and successes in measuring and promoting environmental stewardship.
- Increase the number of significant environmental items on the statewide end-of-grade tests developed by DPI for school accountability.



## **2.9 - PROMOTE ENVIRONMENTAL EDUCATION CENTERS.**

**Objective:** Support existing environmental education centers in North Carolina. Ensure communication among environmental education centers to identify needs and opportunities for coordinating programs to the mutual benefit of the centers and their customers.

**Explanation:** North Carolina has many public and private environmental education centers serving a diverse statewide audience. Identifying and coordinating these centers, addressing their needs and opportunities, ensuring communication among them and coordinating their educational resources with

the needs of the general public will further their missions. Promoting these centers will further enhance the availability of valuable environmental education resources to schools and the general public.

**Action:**

- Support and promote the creation of a state association of environmental education centers.
- Evaluate opportunities to incorporate residential experiences and the uses of technology to enhance environmental education.
- Explore the establishment of voluntary accreditation and standards for environmental education centers.
- Facilitate communication and sharing of information among environmental education centers and between environmental education centers, the schools and the general public.
- Promote the use of these centers by educators and the general public through effective marketing.
- Develop funding and administrative support for field trips, site visits, internships and volunteer programs.
- Publish and maintain the *Guide to Environmental Education Centers in North Carolina* and include in it information on resources for pre-service teacher candidates.
- Integrate environmental education center programs into interdisciplinary school curricula.

## 2.10 - PROVIDE ENVIRONMENTAL EDUCATION FOR GOVERNMENT AGENCIES.

**Objective:** Provide environmental education and an awareness of environmental education resources to state government employees as a part of their orientation and professional development.

**Explanation:** The array of state employees working in fields related to the environment, especially in the technical professions, should learn about the ecological concepts underpinning their work. In addition, all government employees should have an improved understanding of environmental concepts and environmental education resources available to help them relate better to the various public audiences with whom they must interact.

"All government employees should have an improved understanding of environmental concepts and environmental education resources available to help them relate better to the various public audiences with whom they must interact."



**Actions:**

- Explore cooperative agreements with departments and divisions of state government to incorporate environmental education principles and concepts into personnel training for both new and existing employees.
- Develop experiential environmental education workshops for personnel at parks, forests, zoos, museums, aquariums and other environmental education facilities, and for all personnel who regularly interact with the public.
- Develop educational programs for government employees to improve understanding of emerging environmental issues.
- Encourage state employees to volunteer in their communities to promote environmental stewardship. Develop environmental education training for these volunteer activities.

## **2.11 EXPAND FUNDING FOR ENVIRONMENTAL EDUCATION.**

**Objective:** Establish a North Carolina Environmental Education Trust Fund to encourage and support environmental education in schools K-16.

**Explanation:** North Carolina has excellent environmental education programs and facilities which students, parents, administrators, educators and adult groups want to use for interdisciplinary classwork involving science, social studies, language arts, computer skills, etc. A lack of financial support to access existing environmental education resources is a major barrier for both customers and program providers. Funding for environmental education materials and supplies, professional staff development, class activities, technology and use of existing facilities and resources is a clearly identified statewide need.

**Action:**

- Establish a North Carolina Environmental Education Trust Fund from civil penalties imposed for violation of North Carolina environmental laws.
- Award grants from the Trust Fund to schools, communities and organizations to support and promote environmental education in North Carolina schools K-16.
- Establish policies and procedures within the Attorney General's Office, DEHNR and federal regulatory agencies whereby settlements in environmental cases will support environmental education in North Carolina consistent with the definition, principles and concepts set forth in this North Carolina Environmental Education Plan.

- Encourage North Carolina business, industry, civic organizations, and foundations to support environmental education programs.
- Provide environmental education grant information through the North Carolina Environmental Education Clearinghouse, and provide technical assistance in grantsmanship.
- Identify policies and procedures which are barriers to funding environmental education programs and recommend actions to overcome these barriers.

## 2.12 - BUILD PARTNERSHIPS FOR ENVIRONMENTAL EDUCATION.

**Objective:** Encourage and strengthen environmental education partnerships, collaboration and coordination among the education community, business and industry, non-profit organizations and government.

**Explanation:** A multitude of North Carolina organizations provide environmental education programs across the state. Coordination and communication among these program providers has proven to be mutually beneficial and should be encouraged. Existing collaborations must be identified and their experiences shared across the state in an effort to stimulate the development of new partnerships

**Action:**

- Develop and maintain an inventory of environmental education programs conducted by business, industry and non-profits in North Carolina.
- Identify and establish relationships with business and industry leaders to expand existing environmental education programs.
- Promote partnerships to establish grants, internships, field trips and other environmental education experiences which include families, schools and communities.
- Encourage collaboration between business and industry, media, citizen groups and government in the dissemination of environmental education information and programs.

**"Encourage and strengthen environmental education partnerships, collaboration and coordination among the education community, business and industry, non-profit organizations and government."**

## 2.13 - DEVELOP MEDIA PARTICIPATION IN ENVIRONMENTAL EDUCATION.

**Objective:** Encourage and recognize media participation in environmental education in North Carolina.

**Explanation:** Electronic and print media know how to reach the public effectively. It is their business. The media are an essential resource to effectively collect and share information about environmental education and stewardship with the public. State and local governments, communities and other organizations must learn how to work effectively with the media.

**Actions:**

- Develop relationships with media leadership to better understand the available opportunities.
- Recognize exemplary media coverage of environmental education activities and information. Disseminate and learn from these effective media efforts to expand the reach of environmental education.
- Improve the ability of environmental staff and educators in the public and private sectors to work collaboratively with the media.
- Plan educational opportunities about emerging environmental matters with the media and the public.

## 2.14 - ENHANCE ENVIRONMENTAL EDUCATION FOR ADULTS.

**Objective:** Identify and build upon existing environmental education programs for adults and promote new initiatives to ensure excellent environmental education opportunities for all North Carolinians.

**Explanation:** Education of the adult population is a critical challenge. An initial step in this effort is to identify and recognize existing programs, determine needs and build upon examples of excellence in North Carolina. New and innovative environmental education programs need to be developed which will build on existing knowledge and instill in the general public a conservation ethic and sense of stewardship in their communities.

**Action:**

- Inventory North Carolina environmental education programs for adults and promote them through the Environmental Education Clearinghouse.

- Promote partnerships between the public and private sectors to provide adult environmental education programs, initiatives and community outreach.
- Encourage the development of environmental education programs to include business and community leaders.
- Encourage the development of environmental education programs for the general public that pair adults with children and that reach persons with disabilities.
- Promote the use of theater, music and art as environmental education teaching media for families.
- Emphasize and promote environmental education programs in remote, rural and low income regions of North Carolina.

**FOOTNOTES**

- <sup>1</sup>Museum of Natural Sciences, DEHNR
- <sup>2</sup>US Forest Service
- <sup>3</sup>Division of Soil & Water, DEHNR
- <sup>4</sup>Division of Parks and Recreation, DEHNR
- <sup>5</sup>Albemarle Pamlico Estuarine Study, DEHNR
- <sup>6</sup>North Carolina Aquariums, DEHNR
- <sup>7</sup>Division of Forest Resources, DEHNR
- <sup>8</sup>Museum of Natural Sciences, DEHNR
- <sup>9</sup>Wildlife Resources Commission

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## 5. LIST OF PARTICIPANTS

The following individuals, organizations, and exhibitors attended the North Carolina Environmental Education Conference in December 1994 or one of the Regional Environmental Education Meetings held during February and March 1995.

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Mary McGlaulin, Asheville  
Bob McGratten, Asheville  
Bobbie McIntosh, Oriental  
Patty McIntosh, Burnsville  
Edith McKinney, Raleigh  
Ivan McKinney, Elon College  
Beth McKinnon, Rocky Mount  
Karl McKinnon, Rocky Mount  
Phil McKnelly, Raleigh  
Veronica McLaurin, Wilmington  
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Alan McLueller, Houston  
Neil McMillan, Fayetteville  
Willa McMillan, Fayetteville  
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Vicki McPhail, Lunden  
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Jim Mead  
Chris Meggs, Elizabethtown  
James Merritt, Wilmington  
Ruth Meshaw, Fayetteville  
Bill Meyer, Henderson  
Virginia Midgett, Bayboro  
Diane Midness, Raleigh  
Kevin Miller  
Steven Miller, Wilmington  
Carolyn Mills, Asheville  
Mike Milosch, Pisgah Forest  
John Minneci, Burgaw  
Kirsten Mitchell, Raleigh  
Representative Frank Mitchell  
Sherry Mitchell, Atlantic Beach  
Vastine Mitchell, Lumberton  
Stefanie Mixon, Cullowhee  
Pat Mornich, Asheville  
Joy Montgomery, Roxboro  
A. Ross Moore, Raleigh  
Bibby Moore, Raleigh  
Shep Moore, Jacksonville  
John Morris  
Deanna Moss, Winston-Salem  
Diane Motel, Reidsville  
Jim Mulligan, Washington

Rick Mumford, Fayetteville  
Eugenia Murdock, Statesville  
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Amy Murray, Smithfield  
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Elaine Nagle, Raleigh  
Zsolt Nagy, Raleigh  
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Randall Newman, Atlantic Beach  
Janet Nichols, Waynesville  
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Gail Normanly, Jacksonville  
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Joyce Oakley, Roxboro  
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Mary Olson, Wilkesboro  
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Keith Overall  
Michelle Overman, Elizabeth City  
Mike Overton, Edenton  
Dave Owen, Durham  
Jim Page, Raleigh  
Greta Paith, Roxboro  
Krista Parham, Asheville  
Amber Parker, Raleigh  
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Frances Parks, Calypso  
Lauren Parmelee, Durham  
Suzanne Parsons, Charlotte  
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Melinda Patterson, Arden  
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Guy Pearce  
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Gloria Perkinson, Durham  
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Peggy Perry, Fayetteville  
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Phillip Prescott, Jr., Bayboro  
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Michael Prince, Whiteville  
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Nona Pryor, Trinity  
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Smith Raynor, Raleigh  
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Johanna Reese, Raleigh  
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Doug Robertson, Raleigh  
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Barbara Robinson, Burnsville  
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Nancy Rogers, Charlotte  
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Mike Shealy, Sylva  
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Tom Shephard, High Point  
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Chris Snow, Raleigh  
Gerry Solomon, Raleigh  
Roger Spach, Lexington  
James Spangler, Raleigh  
Jim Spangler, Raleigh  
C. J. Spears, Laurinburg  
Joyce Speas, Elon College  
Lundie Spence, Raleigh  
Cathy Spencer, Bayboro  
Lee Spencer, Winston-Salem  
Sharon Spencer, Winston-Salem  
Tammy Spencer, Alliance  
William Spender, Holly Ridge  
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Elaine Stover, Greensboro  
Martha Strawther, New Bern  
Debbie Strickland, Raleigh  
Louise Strickland, Snow Camp  
Herb Strickler, Wilmington  
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Evelyn Toole, Durham  
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Terry Townsend, Raleigh  
Lynn Trachtman, Raleigh  
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Sadhana Tripathi, Cary  
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Grace Turner, Burlington  
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John Uber, Elizabethtown  
Hazel Urquhart, Fayetteville  
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Rick Van Schoick, Columbia  
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Joe Wagner, Winston-Salem  
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Mary Wakeford, Chapel Hill  
Nancy Walker, Butner  
Sonya Walker, Raleigh  
Paula Wall, Liberty  
Jo Wallace, Charlotte  
Josephine Wallace, Charlotte  
Linda Wallace, Columbus  
K. Travis Walsh, Wilson  
Agnes Wanman, Fayetteville  
David Warlick, Raleigh  
Ina Warren, Brevard  
Linda Warren, Arapahoe  
Susan Warren, Weaverville



Michael Washington, Winston-Salem  
Sandra Washington, Fayetteville  
Bobbi Waters, New Bern  
Rex Watkins, Clayton  
Mary Watson, Raleigh  
Robert Watson, Research Triangle Park  
Gail Watts, Oriental  
John Wear, Salisbury  
Lisa Wear, Salisbury  
Augustus Webber, Fayetteville  
C. Wedemeyer, Fayetteville  
Omega Weeks, Pope AFB  
Janice Weems, Raleigh  
Zora Weisbecker, Lake Junaluska  
Assistant Secretary Joan Weld  
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Al Weller, New Bern  
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Vicki Westbrook, Durham  
Calvin Wheatley, Purlear  
Chantal Wheeler, Wilson  
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Richard Whisnant  
Diane Whitaker, High Point  
Barbara White, Salter Path  
Dean White, Germantown  
Elizabeth White, Bayboro  
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Ruth White, Fayetteville  
Thomas White, Yanceyville  
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Ann Whitley, Greenville  
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Kia Whittlesey, Charlotte

Aliza Wickliff, Charlotte  
Clara Wiggins, Raleigh  
Jonathan Wild, Jefferson  
Mark Wilde-Ramsing, Kure Beach  
Dr. Richard Wilke, Stevens Point  
Beth Willar, Charlotte  
Don Willard  
Floyd Williams, Gatesville  
Jearolean Williams, Hope Mills  
Mary Williams, Raleigh  
Pat Williams, Havelock  
Paul Williams  
Wendy William, Fayetteville  
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Janie Wilson, Asheville  
Larry Wilson, Asheville  
Michelle Wilson, Raleigh  
Robert Wilson, Asheville  
Tracie Wilson, Wilmington  
Ferne Winborne, Raleigh  
Cuyler Windham, Fayetteville  
Tess Winters, Trinity  
Carolyn Wise, Greensboro  
Jennifer Wix, Charlotte  
Russell Wong, Cary  
Andrew Wood, Kure Beach  
Donald Wood, Chapel Hill  
Martha Wood, Winston-Salem  
Susan Woodard, Smithfield  
Alida Woods, Asheville  
Laura Woods, Raleigh  
Monty Wooten, Asheville  
L.F. Worrell, Fayetteville  
Belinda Wright, Wilmington  
Cheryl Wright, Mt. Pleasant  
Tim Wright, Tryon  
Noel Wyatt, Wilmington  
Wanda Wyatt, Lexington  
Pat Wylie, Raleigh  
Sherry Yarkovsky, Chapel Hill

Don Yelton, Asheville  
Lori Yungwirth, Hickory  
Robert Zicht, Hillsborough

Michelle Zuckenman-Parker, Raleigh  
Stephanie Zuk, Raleigh

## 5.2 PARTICIPATING ORGANIZATIONS

### Organizations represented at the statewide conference and regional meetings:

ALAMANCE COUNTY SCHOOLS	BURLINGTON
ALBEMARLE-PAMLICO ESTUARINE STUDY	RALEIGH
APPALACHIAN STATE UNIVERSITY	BOONE
NC AQUARIUMS	ATLANTIC BEACH
ARAPAHOE ELEMENTARY SCHOOL	ARAPAHOE
ARCHDALE-TRINITY MIDDLE SCHOOL	TRINITY
ARIEL TRAINING DESIGN	APEX
ASBESTOS MANAGEMENT - EHNR	RALEIGH
ASHEVILLE HIGH SCHOOL	ASHEVILLE
ASHEVILLE REGIONAL OFFICE - EHNR	ASHEVILLE
ASHEVILLE SOIL & WATER CONSERVATION	ASHEVILLE
ASHEVILLE US FISH & WILDLIFE SERVICE	ASHEVILLE
ASHEVILLE WATER DEPARTMENT	ASHEVILLE
ASHLEY PARK SCHOOL	CHARLOTTE
AVERY COUNTY HIGH SCHOOL	NEWLAND
BAIN ELEMENTARY SCHOOL	CHARLOTTE
BARNARDSVILLE ELEMENTARY SCHOOL	BARNARDSVILLE
BARRETT KAYS AND ASSOCIATES	RALEIGH
BARTLETT YANCEY HIGH SCHOOL	YANCEYVILLE
BASF CORPORATION	RTP
BATH ELEMENTARY SCHOOL	BATH
BEAUFORT COASTAL MANAGEMENT	BEAUFORT
BEAUFORT MIDDLE SCHOOL	BEAUFORT
BENNETT COLLEGE	GREENSBORO
BERKELEY SCHOOL	CAMP LEJEUNE
BÉTSY JEFF PENN 4-H EDUCATION CENTER	REIDSVILLE
BFI WASTE SYSTEMS	WINSTON-SALEM
BIG SWEEP KAB	RALEIGH
BOWLEY ELEMENTARY SCHOOL	FAYETTEVILLE
BOWLING GREEN SCHOOL	BUTNER
BRANCH BANKING & TRUST	FAYETTEVILLE
BRAWLEY MIDDLE SCHOOL	MOORESVILLE
BREVARD COLLEGE	BREVARD
BREVARD COLLEGE MATH & NATURAL SCIENCE	BREVARD
BRIGHTWOOD ELEMENTARY SCHOOL	GREENSBORO
BROUGHTON HIGH SCHOOL	RALEIGH
BUNCOMBE CO. SOIL & WATER CONSERVATION DISTRICT	ASHEVILLE
BUNCOMBE COUNTY SCHOOLS	FLETCHER
BUNCOMBE COUNTY SCHOOLS	ASHEVILLE
BURLINGTON CITY SCHOOLS	BURLINGTON

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BURNS HIGH SCHOOL	LAWNDALE
BURNSVILLE ELEMENTARY	BURNSVILLE
CABARRUS COUNTY SCHOOLS	CONCORD
CALDWELL COMMUNITY COLLEGE	HUDSON
CALDWELL SOIL AND WATER CONSERVATION DISTRICT	LENOIR
CAMDEN COUNTY HIGH SCHOOL	CAMDEN
CAMP HANES YMCA CAMP	KING
CAMP LEJEUNE SCHOOL SYSTEM	SWANSBORO
CAPE FEAR BOTANICAL GARDENS	FAYETTEVILLE
CAPE FEAR MUSEUM	WILMINGTON
CAPE FEAR RIVER WATCH	WILMINGTON
CAPE HATTERAS SCHOOL	BUXTON
CARNIVORE PRESERVATION TRUST	PITTSBORO
CAROLINA BEACH STATE PARK	CAROLINA BEACH
CAROLINA FRIENDS SCHOOL	DURHAM
CAROLINA OCEAN STUDIES	CAROLINA BEACH
CAROLINA RAPTOR CENTER	CHARLOTTE
CARRBORO ELEMENTARY SCHOOL	CARRBORO
CARROLL MIDDLE SCHOOL	RALEIGH
CARTERET COMMUNITY COLLEGE	MOREHEAD CITY
CARTERET SOIL & WATER CONSERVATION DISTRICT	BEAUFORT
CARY HIGH SCHOOL	CARY
CASHWELL ELEMENTARY SCHOOL	FAYETTEVILLE
CATAWBA COLLEGE	SALISBURY
CATAWBA COUNTY SCHOOLS	CATAWBA
CATAWBA MIDDLE SCHOOL	CATAWBA
CATAWBA SCIENCE CENTER	HICKORY
CATAWBA SOIL & WATER DISTRICT AGRICULTURAL CENTER	NEWTON
CATHEDRAL SCHOOL	RALEIGH
CENTER FOR GEOGRAPHIC INFORMATION	RALEIGH
CENTER FOR MATH AND SCIENCE EDUCATION	CHAPEL HILL
CHAMPION INTERNATIONAL	ASHEVILLE
CHAPEL HILL/CARRBORO SCHOOLS	HILLSBOROUGH
CHARLES D. OWEN HIGH SCHOOL	BLACK MOUNTAIN
CHARLOTTE STORMWATER SERVICES	CHARLOTTE
CHARLOTTE-MECKLENBURG SCHOOLS	CHARLOTTE
CHATHAM COUNTY RECYCLING DEPARTMENT	PITTSBORO
CHIMNEY ROCK PARK	CHIMNEY ROCK
CHOCOWINITY HIGH SCHOOL	CHOCOWINITY
CHOWAN MIDDLE SCHOOL	TYNER
CHOWAN SOIL & WATER CONSERVATION COMMISSION	EDENTON
CHRIST SCHOOL	ARDEN
CITY OF DURHAM, DEPARTMENT OF WATER RESOURCES	DURHAM
CITY OF GREENSBORO	GREENSBORO
CITY OF LEXINGTON	LEXINGTON
CITY OF RALEIGH, DEPARTMENT OF PUBLIC UTILITIES	RALEIGH
CITY OF RALEIGH, PARKS AND RECREATION	RALEIGH
CITY OF WINSTON-SALEM	WINSTON-SALEM
CLARK ENVIRONMENTAL SERVICES	WILMINGTON
CLARK PARK NATURE CENTER	FAYETTEVILLE
CLAYTON DIVISION OF FOREST RESOURCES	CLAYTON

CLAYTON HIGH SCHOOL  
CLEVELAND COUNTY SCHOOLS  
CLIFFS OF THE NEUSE STATE PARK  
CLINTON HIGH SCHOOL  
COASTAL CAROLINA COMMUNITY COLLEGE  
COASTAL CAROLINA GIRL SCOUTS  
COASTAL MANAGEMENT - EHNH  
COCHRANE MIDDLE SCHOOL  
COLBURN GEM & MINERAL MUSEUM  
CONCORD MIDDLE SCHOOL  
CONCORD SOIL & WATER CONSERVATION  
CONNELLY SPRINGS PARKS & RECREATION  
COOPERATIVE EXTENSION OF WAKE COUNTY  
CORNING, INC.  
CRADLE OF FORESTRY  
CRAVEN COUNTY CLEAN SWEEP  
CREATED WETLAND PROJECT  
CRESWELL DIVISION OF PARKS & RECREATION  
CUMBERLAND COOPERATIVE EXTENSION 4-H  
CUMBERLAND COUNTY COMMISSIONERS  
CUMBERLAND COUNTY SCHOOLS  
CUMBERLAND COUNTY SHERIFF'S DEPARTMENT  
CUMBERLAND COUNTY SOLID WASTE  
DALLAS SOIL & WATER CONSERVATION DISTRICT  
DAN NICHOLAS PARK NATURE CENTER  
DANIEL STOWE BOTANICAL GARDENS  
DANIELS MIDDLE SCHOOL  
DARDEN-VICK MIDDLE SCHOOL  
DAVIDSON SOIL AND WATER CONSERVATION DISTRICT  
DELALIO SCHOOL  
DENTON WILDLIFE RESOURCES COMMISSION  
DISCOVERY PLACE INCORPORATED  
DIXON HIGH SCHOOL  
DOBSON COOPERATIVE EXTENSION  
DOUGLAS BATTERY MANUFACTURING  
DUKE POWER  
DUKE POWER ENERGY ENERGY EXPLORIUM  
DUKE POWER STATE PARK  
DUKE UNIVERSITY SCHOOL OF THE ENVIRONMENT  
DURHAM PARKS & RECREATION  
DURHAM PUBLIC SCHOOLS  
EAST CAROLINA UNIVERSITY  
EAST CAROLINA UNIVERSITY BIOLOGY DEPARTMENT  
EAST JR. HIGH SCHOOL  
EAST LINCOLN HIGH SCHOOL  
EAST WAKE HIGH SCHOOL  
EASTERN RANDOLPH HIGH SCHOOL  
ECO-WISE SERVICES, INCORPORATED  
EDENTON FISH HATCHERIES  
EDENTON US FISH & WILDLIFE SERVICE  
EDENTON WILDLIFE RESOURCES COMMISSION

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SHELBY  
SEVEN SPRINGS  
CLINTON  
JACKSONVILLE  
KURE BEACH  
BEAUFORT  
CHARLOTTE  
ASHEVILLE  
CONCORD  
CONCORD  
CONNELLY SPRINGS  
RALEIGH  
WILMINGTON  
PISGAH FOREST  
NEW BERN  
WILMINGTON  
CRESWELL  
FAYETTEVILLE  
FAYETTEVILLE  
FAYETTEVILLE  
FAYETTEVILLE  
FAYETTEVILLE  
DALLAS  
SALISBURY  
BELMONT  
RALEIGH  
WILSON  
LEXINGTON  
JACKSONVILLE  
DENTON  
CHARLOTTE  
HOLLY RIDGE  
DOBSON  
WINSTON-SALEM  
CHARLOTTE  
HUNTERSVILLE  
TROUTMAN  
DURHAM  
DURHAM  
DURHAM  
GREENVILLE  
GREENVILLE  
HIDDENITE  
DENVER  
WENDELL  
GOLDSTON  
WILMINGTON  
EDENTON  
EDENTON  
EDENTON

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ELIZABETH CITY MIDDLE SCHOOL  
ELIZABETH CITY SCHOOLS  
ELIZABETH CITY STATE UNIVERSITY  
ELIZABETH TOWN FOREST RESOURCES  
ELKIN ELEMENTARY SCHOOL  
ELON COLLEGE  
ENLOE HIGH SCHOOL  
ENO RIVER ASSOCIATION  
ENVIRONMENTAL EDUCATORS OF NORTH CAROLINA  
ENVIRONMENTAL MANAGEMENT  
ENVIRONMENTAL MEDIA  
ENVIRONMENTAL RESOURCE PROGRAM-UNC  
EXTENSION 4-H & YOUTH DEVELOPMENT-NCSU  
F. T. GREEN & ASSOCIATES  
FAIRVIEW ELEMENTARY SCHOOL  
FAYETTEVILLE ACADEMY  
FAYETTEVILLE FOREST RESOURCES  
FAYETTEVILLE PARKS & RECREATION  
FAYETTEVILLE REGIONAL OFFICE - EHN  
FAYETTEVILLE STATE UNIVERSITY  
FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE  
FEDERAL PAPER BOARD, INC.  
FENCE  
FOREST HISTORY SOCIETY  
FOREST VIEW ELEMENTARY  
FORSYTH COUNTY COOPERATIVE EXTENSION  
FORT BRAGG ENVIRONMENT & NATURAL RESOURCES DIV.  
FORT BRAGG SCHOOLS  
FORT FISHER AQUARIUM  
FORT FISHER STATE PARK  
FORT MACON STATE PARK  
FRED ANDERSON SCHOOL  
FUQUAY-VARINA HIGH SCHOOL  
GARDNERS ELEMENTARY SCHOOL  
GASTON COUNTY COOPERATIVE EXTENSION  
GASTON MIDDLE SCHOOL  
GASTONIA CLEAN CITY  
GASTONIA KEEP AMERICA BEAUTIFUL - CLEAN CITY  
GATESVILLE PARKS & RECREATION  
GENERAL GREENE ELEMENTARY  
GEORGIA STATE UNIVERSITY  
GOOSE CREEK STATE PARK  
GRAHAM MIDDLE SCHOOL  
GRANTSBORO FORESTRY SERVICE  
GRANVILLE COUNTY SCHOOLS  
GREAT SMOKY MOUNTAIN NATIONAL PARKS  
GREAT SMOKY MOUNTAINS INSTITUTE  
GREENHILLS SCHOOL  
GREENSBORO COOPERATIVE EXTENSION  
GREENSBORO DAY SCHOOL

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ELIZABETH CITY  
ELIZABETH CITY  
ELIZABETH CITY  
ELIZABETH TOWN  
ELKIN  
ELON COLLEGE  
RALEIGH  
DURHAM  
CHAPEL HILL  
RALEIGH  
CHAPEL HILL  
CHAPEL HILL  
RALEIGH  
WILSON  
SYLVA  
FAYETTEVILLE  
FAYETTEVILLE  
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FAYETTEVILLE  
FAYETTEVILLE  
FAYETTEVILLE  
BOLTON  
TRYON  
DURHAM  
DURHAM  
WINSTON-SALEM  
FORT BRAGG  
FORT BRAGG  
KURE BEACH  
CAROLINA BEACH  
ATLANTIC BEACH  
BAYBORO  
FUQUAY-VARINA  
ELM CITY  
DALLAS  
GASTON  
GASTONIA  
GASTONIA  
GATESVILLE  
GIBSONVILLE  
MARIETTA, GA  
WASHINGTON  
GIBSONVILLE  
GRANTSBORO  
OXFORD  
GATLINBURG  
TOWNSEND, TN  
TOBACCOVILLE  
GREENSBORO  
GREENSBORO

GRIMSLEY HIGH SCHOOL  
GUILFORD MIDDLE SCHOOL  
GURGANUS ELEMENTARY SCHOOL  
HAMMOCKS BEACH STATE PARK  
HANGING ROCK STATE PARK  
HARNETT COUNTY SCHOOLS  
HARRIS ELEMENTARY SCHOOL  
HAYESVILLE SCHOOL  
HAYWOOD SOIL & WATER CONSERVATION DISTRICT  
HAZEN AND SAWYER  
HENDERSON COUNTY PUBLIC SCHOOLS  
HENDERSON PARKS & RECREATION  
HERTFORD COUNTY SCHOOLS  
HOLLISTER DIVISION OF PARKS & RECREATION  
HORIZONS UNLIMITED CENTER  
IMAGINATION STATION MUSEUM  
IMMACULATA CATHOLIC SCHOOL  
INDEPENDENCE HIGH SCHOOL  
INGLES MARKETS  
INSTITUTE OF CULTURAL AFFAIRS  
INTERNATIONAL PAPER  
IREDELL -STATESVILLE SCHOOLS  
IREDELL SOIL AND WATER CONSERVATION DISTRICT  
IREDELL-STATESVILLE SCHOOLS  
J. T. HOGGARD HIGH SCHOOL  
JACKSON COUNTY PUBLIC SCHOOLS  
JEFFERSON PARKS & RECREATION  
JOCKEY'S RIDGE STATE PARK  
JOHNSTON COMMUNITY COLLEGE  
JOHNSTON COUNTY SCHOOLS  
JOHNSTON SOIL AND WATER CONSERVATION DISTRICT  
JONES LAKE STATE PARK  
JORDAN HIGH SCHOOL  
KEEP AMERICA BEAUTIFUL- WILSON COUNTY  
KEEP WAYNE COUNTY BEAUTIFUL  
KENDALL AND HUNT  
KIC KAB INCORPORATED  
KINGS MOUNTAIN PARKS & RECREATION  
LAKE JUNALUSKA WILDLIFE RESOURCES COMMISSION  
LAKE WACCAMAW STATE PARK  
LAKE WYLIE ELEMENTARY SCHOOL  
LEE COUNTY PARKS AND RECREATION  
LENOIR FORESTRY SERVICE  
LIBERTY ELEMENTARY SCHOOL  
LIGON MIDDLE SCHOOL  
LINCOLN MIDDLE SCHOOL  
LONGVIEW SCHOOL  
LOWE'S GROVE MIDDLE SCHOOL  
LUMBER RIVER STATE PARK  
MAGIC GARDENS  
MANTECH ENVIRONMENTAL

GREENSBORO  
GREENSBORO  
HAVELOCK  
SWANSBORO  
DANBURY  
DUNN  
DURHAM  
HAYESVILLE  
WAYNESVILLE  
RALEIGH  
FLAT ROCK  
HENDERSON  
WINTON  
HOLLISTER  
SALISBURY  
WILSON  
DURHAM  
CHARLOTTE  
ASHEVILLE  
GREENSBORO  
ELIZABETHTOWN  
STATESVILLE  
STATESVILLE  
CLEVELAND  
WILMINGTON  
WHITTIER  
JEFFERSON  
NAGS HEAD  
SMITHFIELD  
WILLOW SPRINGS  
SMITHFIELD  
ELIZABETHTOWN  
DURHAM  
WILSON  
GOLDSBORO  
HIGH POINT  
UNION GROVE  
KINGS MOUNTAIN  
LAKE JUNALUSKA  
LAKE WACCAMAW  
CHARLOTTE  
SANFORD  
LENOIR  
LIBERTY  
RALEIGH  
GREENSBORO  
CLAYTON  
DURHAM  
ORRUM  
ASHEVILLE  
RTP

MANUFACTURERS & CHEMICAL INDUSTRY COUNCIL OF NC  
MARINEQUEST-PUBLIC SERVICE, UNC-W  
MARSHALL ELEMENTARY SCHOOL  
McALPINE CREEK PARK  
McDOWELL CLEAN CO. SYSTEM INCORPORATED  
MCDOWELL HIGH SCHOOL  
MCLINTOCK MIDDLE SCHOOL  
MCNC  
MECKLENBURG COUNTY PARKS AND RECREATION  
MECKLENBURG COUNTY PARKS AND RECREATION  
MEDIA EVALUATION SERVICES  
MEDOC MOUNTAIN STATE PARK  
MENDENHALL MIDDLE SCHOOL  
MEREDITH COLLEGE  
METHODIST COLLEGE  
MID-CAROLINA COUNCIL OF GOVERNMENTS  
MOORESVILLE DEPARTMENT OF COMMERCE  
MOORESVILLE REGIONAL OFFICE - EHN  
MOREHEAD CITY SOIL & WATER CONSERVATION  
MORROW MOUNTAIN STATE PARK  
MOUNT JEFFERSON NEW RIVER STATE PARK  
MT. PLEASANT ELEMENTARY SCHOOL  
MT. TABOR HIGH SCHOOL  
MUSEUM OF NATURAL SCIENCE  
N.C. A & T UNIVERSITY  
NASH COMMUNITY COLLEGE  
NASH-ROCKY MOUNT SCHOOLS  
NATIONAL PARK SERVICE  
NATURAL SCIENCE CENTER OF GREENSBORO  
NC AQUARIUMS  
NC ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS  
NC COOPERATIVE EXTENSION SERVICE  
NC DEPARTMENT OF COMMERCE  
NC DPR  
NCSU EXTENSION FORESTRY  
NCSU DEPARTMENT OF SOCIOLOGY  
NCSU SCHOOL OF DESIGN  
NCSU SOLAR HOUSE  
NCSU UNC SEA GRANT  
NEAL MIDDLE SCHOOL  
NEBO WILDLIFE RESOURCES COMMISSION  
NEUSE RIVER FOUNDATION  
NEW BERN WILDLIFE RESOURCES COMMISSION  
NEW HANOVER COUNTY HEALTH DEPARTMENT  
NEW HANOVER COUNTY SCHOOLS  
NEW HOPE ELEMENTARY  
NEW HOPE SCHOOL  
NEW WORLD MARKETING AND DESIGN  
NORTH AMERICAN MYCOLOGICAL ASSOC.  
NORTH BRUNSWICK HIGH SCHOOL  
NORTH CAROLINA AGGREGATES ASSOCIATION

RALEIGH  
WILMINGTON  
MARSHALL  
CHARLOTTE  
MARION  
MARION  
CHARLOTTE  
RTP  
HUNTERSVILLE  
CHARLOTTE  
RALEIGH  
HOLLISTER  
GREENSBORO  
RALEIGH  
FAYETTEVILLE  
FAYETTEVILLE  
MOORESVILLE  
MOORESVILLE  
MOREHEAD CITY  
ALBEMARLE  
JEFFERSON  
MT. PLEASANT  
WINSTON-SALEM  
CAROLINA BEACH  
GREENSBORO  
ROCKY MOUNT  
SPRING HOPE  
CHEROKEE  
GREENSBORO  
RALEIGH  
RALEIGH  
BAYBORO  
FAYETTEVILLE  
APEX  
RALEIGH  
RALEIGH  
RALEIGH  
RALEIGH  
RALEIGH  
DURHAM  
NEBO  
NEW BERN  
NEW BERN  
WILMINGTON  
WILMINGTON  
CHAPEL HILL  
WILSON  
GREENSBORO  
STATESVILLE  
LELAND  
RALEIGH



NORTH CAROLINA ATTORNEY GENERAL'S OFFICE  
NORTH CAROLINA CENTER FOR PUBLIC TELEVISION  
NORTH CAROLINA COASTAL FEDERATION  
NORTH CAROLINA COASTAL FEDERATION  
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE  
NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION  
NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
NORTH CAROLINA FARM BUREAU  
NORTH CAROLINA FORESTRY ASSOCIATION  
NORTH CAROLINA FORESTRY ASSOCIATION  
NORTH CAROLINA GROUND ZERO  
NORTH CAROLINA MUSEUM OF LIFE AND SCIENCE  
NORTH CAROLINA MUSEUM OF NATURAL SCIENCES  
NORTH CAROLINA RECYCLING ASSOCIATION  
NORTH CAROLINA SOIL & WATER  
NORTH CAROLINA STATE UNIVERSITY SCHP  
NORTH CAROLINA WILDLIFE FEDERATION  
NORTH CAROLINA ZOOLOGICAL SOCIETY, INC.  
NORTH DUPLIN ELEMENTARY SCHOOL  
NORTH GARNER MIDDLE SCHOOL  
NORTH IREDELL HIGH SCHOOL  
NORTH SURRY HIGH SCHOOL  
NORTHEAST MIDDLE SCHOOL  
NORTHWEST GUILFORD HIGH SCHOOL  
NORTHWOOD HIGH SCHOOL  
OFFICE OF PUBLIC AFFAIRS-EHNR  
OFFICE OF WASTE REDUCTION - EHNR  
ONslow COUNTY  
ORANGE COUNTY SOIL & WATER CONSERVATION DISTRICT  
PACTOLUS SCHOOL  
PAMLICO COMMUNITY COLLEGE  
PAMLICO COUNTY RECYCLING AND LITTER CONTROL  
PAMLICO COUNTY SCHOOLS  
PAMLICO ENVIRONMENTAL  
PAMLICO-TAR RIVER FOUNDATION  
PARTNERSHIP FOR THE SOUNDS  
PASQUOTANK HIGH SCHOOL  
PENDER COUNTY HEALTH DEPARTMENT  
PENDER HIGH SCHOOL  
PENDER WATCH & CONSERVANCY  
PERQUIMANS SOIL & WATER CONSERVATION DISTRICT  
PERSON COUNTY SCHOOLS  
PETWORKS  
PIEDMONT ENVIRONMENTAL CENTER  
PIEDMONT ENVIRONMENTAL CENTER  
PILOT MOUNTAIN STATE PARK  
PINE KNOLL SHORES AQUARIUM  
PINE KNOLL SHORES AQUARIUM  
PINNACLE PARKS & RECREATION  
PISGAH FOREST WILDLIFE RESOURCES COMMISSION

RALEIGH  
RTP  
SWANSBORO  
WILMINGTON  
PLYMOUTH  
RALEIGH  
CANTON  
RALEIGH  
RALEIGH  
ELIZABETHTOWN  
RALEIGH  
RALEIGH  
DURHAM  
RALEIGH  
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RALEIGH  
RALEIGH  
ASHEBORO  
CALYPSO  
GARNER  
OLIN  
MT. AIRY  
MCLEANSVILLE  
GREENSBORO  
PITTSBORO  
RALEIGH  
RALEIGH  
JACKSONVILLE  
HILLSBOROUGH  
GREENVILLE  
GRANTSBORO  
BAYBORO  
BAYBORO  
CHOCOWINITY  
WASHINGTON  
COLUMBIA  
ELIZABETH CITY  
BURGAW  
BURGAW  
HAMPSTEAD  
HERTFORD  
ROXBORO  
ROCKY MOUNT  
HIGH POINT  
HIGH POINT  
PINNACLE  
ATLANTIC BEACH  
PINE KNOLL SHORES  
PINNACLE  
PISGAH FOREST

PISGAH HIGH SCHOOL  
PITTSBORO ELEMENTARY SCHOOL  
PLEASANT GARDEN WILDLIFE RESOURCES COMMISSION  
POLK SOIL AND WATER CONSERVATION DISTRICT  
POPE AIR FORCE BASE  
PUBLIC WATER SUPPLY SECTION-EHNR  
PURLEAR PARKS & RECREATION  
QUALITY FORWARD  
R.N. HARRIS ELEMENTARY  
RAEFORD COOPERATIVE EXTENSION 4-H  
RALEIGH DIVISION OF ENVIRONMENTAL MANAGEMENT  
RALEIGH DIVISION OF EPIDEMIOLOGY  
RALEIGH DIVISION OF SOLID WASTE MANAGEMENT  
RALEIGH FOREST RESOURCES  
RALEIGH GEOLOGICAL SURVEY  
RALEIGH OFFICE OF SOLID WASTE  
RALEIGH OFFICE OF WASTE REDUCTION  
RALEIGH PARKS & RECREATION  
RALEIGH REGIONAL OFFICE - EHNR  
RALEIGH SOIL & WATER CONSERVATION  
RALEIGH TECHNICAL ASSISTANCE CENTER  
RALEIGH US FISH & WILDLIFE SERVICE  
RALEIGH WATER QUALITY SECTION  
RALEIGH WILDLIFE RESOURCES COMMISSION  
RANDLEMAN MIDDLE SCHOOL  
RAVEN ROCK STATE PARK  
REEDY CREEK ENVIRONMENTAL CENTER  
REID ROSS JUNIOR HIGH SCHOOL  
RIVER PARK NORTH SCIENCE AND NATURE  
RJR TOBACCO COMPANY  
ROANOKE ISLAND AQUARIUM  
ROANOKE-CHOWAN COMMUNITY COLLEGE  
ROARING GAP PARKS & RECREATION  
ROBESON SOIL AND WATER CONSERVATION DISTRICT  
ROCKINGHAM CO. SOIL & WATER CONSERVATION DISTRICT  
ROCKINGHAM COMMUNITY COLLEGE  
ROCKINGHAM COUNTY SCHOOLS  
ROCKY MOUNT CHILDREN'S MUSEUM  
ROCKY MOUNT DIVISION OF FOREST RESOURCES  
ROCKY MOUNT SENIOR HIGH SCHOOL  
ROGERS-HERR MIDDLE SCHOOL  
RONDA WILDLIFE RESOURCES COMMISSION  
ROWAN-SALISBURY SCHOOLS  
ROWLAND-NORMENT ELEMENTARY  
RUSSELL ELEMENTARY SCHOOL  
SALEM ACADEMY  
SAMPSON COUNTY SOIL AND WATER DISTRICT  
SCI-LINK/GLOBE NET -NCSU  
SCIWORKS  
SEDIMENTATION CONTROL COMMISSION  
SERTOMA 4-H CENTER

CANTON  
PITTSBORO  
PLEASANT GARDEN  
COLUMBUS  
FAYETTEVILLE  
WINSTON-SALEM  
PURLEAR  
ASHEVILLE  
DURHAM  
RAEFORD  
RALEIGH  
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RALEIGH  
RANDLEMAN  
LILLINGTON  
CHARLOTTE  
FAYETTEVILLE  
GREENVILLE  
WINSTON-SALEM  
MANTEO  
AHOSKIE  
ROARING GAP  
LUMBERTON  
WENTWORTH  
WENTWORTH  
EDEN  
ROCKY MOUNT  
ROCKY MOUNT  
ROCKY MOUNT  
DURHAM  
RONDA  
SALISBURY  
LUMBERTON  
CAMP LEJEUNE  
WINSTON-SALEM  
CLINTON  
RALEIGH  
WINSTON-SALEM  
RALEIGH  
WESTFIELD

SETAC-CAMP LEJEUNE  
SEVEN SPRINGS PARKS & RECREATION  
SHAW UNIVERSITY-ENVIRONMENTAL SCIENCE  
SIERRA CLUB  
SINGLETARY LAKE STATE PARK  
SOUTH VIEW SENIOR HIGH SCHOOL  
SOUTH BRUNSWICK HIGH SCHOOL  
SOUTH CALDWELL HIGH SCHOOL  
SOUTH CHARLOTTE MIDDLE SCHOOL  
SOUTH STOKES HIGH SCHOOL  
SOUTHEASTERN COMMUNITY COLLEGE  
SOUTHERN MIDDLE SCHOOL  
SOUTHERN MIDDLE SCHOOL  
SOUTHERN NATIONAL BANK  
SOUTHERN PINES PARKS & RECREATION  
SOUTHWEST HIGH SCHOOL  
SPAULDING ELEMENTARY  
ST. LEO SCHOOL  
STALIGHT ENVIRONMENTAL  
STARMOUNT HIGH SCHOOL  
STATESVILLE COOPERATIVE EXTENSION 4-H  
STEVENS NATURE CENTER  
STOKES COUNTY SOIL AND WATER CONSERVATION  
STONE STREET SCHOOL  
SYLVA FOREST RESOURCES  
TARMAC, INCORPORATED  
TEXFI INDUSTRIES  
THE ASHEVILLE SCHOOL  
THE ELMS  
THE LESLIE GROUP  
THE NATURE CONSERVANCY  
THE NEWS & OBSERVER  
THE SPECIAL POPULATION UNIT  
THE SUMMIT SCHOOL  
THOMASVILLE CITY SCHOOLS  
TOPSAIL MIDDLE SCHOOL  
TOWN OF CARY, WASTEWATER DIVISION  
TOWN OF FAYETTEVILLE  
TOWN OF WILSON  
TRANSOFT INTERNATIONAL  
TRIANGLE J COUNCIL OF GOVERNMENTS  
TRINITY CENTER  
TROUT UNLIMITED  
TROUTMAN DIVISION OF PARKS & RECREATION  
U.S. ENVIRONMENTAL PROTECTION AGENCY/NCSU  
UNC AT CHARLOTTE MATH AND SCIENCE  
UNC-ASHEVILLE  
UNC-CHAPEL HILL DEPARTMENT OF ANTHROPOLOGY  
UNC-CHAPEL HILL GENERAL ADMINISTRATION  
UNC-CHAPEL HILL, CONTRACTS & GRANTS  
UNC-CHARLOTTE

JACKSONVILLE  
SEVEN SPRINGS  
RALEIGH  
RALEIGH  
KELLY  
FAYETTEVILLE  
KURE BEACH  
HUDSON  
CHARLOTTE  
WALNUT COVE  
WHITEVILLE  
ROXBORO  
SNOW CAMP  
FAYETTEVILLE  
SOUTHERN PINES  
HIGH POINT  
DURHAM  
WINSTON-SALEM  
SALISBURY  
BOONVILLE  
STATESVILLE  
CARY  
DANBURY  
CAMP LEJEUNE  
SYLVA  
HENDERSON  
ROCKY MOUNT  
ASHEVILLE  
WINSTON-SALEM  
CHAPEL HILL  
KILL DEVIL HILLS  
RALEIGH  
WINSTON-SALEM  
WINSTON-SALEM  
THOMASVILLE  
HAMSTEAD  
APEX  
FAYETTEVILLE  
WILSON  
CARY  
RTP  
SALTER PATH  
ROSMAN  
TROUTMAN  
RALEIGH  
CHARLOTTE  
ASHEVILLE  
CHAPEL HILL  
CHAPEL HILL  
CHAPEL HILL  
CHARLOTTE

UNC-CHARLOTTE BOTANICAL GARDENS  
UNC-ENVIRONMENTAL RESOURCE PROGRAM  
UNC-GREENSBORO  
UNION PINES SCHOOL  
UNITED STATES COAST GUARD  
UNIVERSITY OF NORTH CAROLINA  
UNIVERSITY OF WISCONSIN  
US ENVIRONMENTAL PROTECTION AGENCY  
US ENVIRONMENTAL PROTECTION AGENCY MD-14 OAQPS  
US EPA - SORDO  
USDA FORESTRY SERVICE  
USDA- NATURAL RESOURCES CONSERVATION SERVICE  
VANSTORY ELEMENTARY SCHOOL  
VEDCO ENERGY CORPORATION  
W.M. THOMPSON SCHOOL  
WACCAMAW ACADEMY  
WAKE COUNTY KEEP AMERICA BEAUTIFUL  
WAKE COUNTY PARKS  
WAKE COUNTY SCHOOLS  
WAKE COUNTY SOIL & WATER CONSERVATION DISTRICT  
WAKE FOREST PARKS & RECREATION  
WARREN WILSON COLLEGE  
WASHINGTON DIVISION OF ENVIRONMENTAL MANAGEMENT  
WASHINGTON SOIL & WATER CONSERVATION  
WAYNE COMMUNITY COLLEGE  
WAYNE COUNTRY DAY SCHOOL  
WAYNESVILLE MIDDLE SCHOOL  
WEAVERVILLE ELEMENTARY SCHOOL  
WEST IREDELL MIDDLE SCHOOL  
WEST LAKE MIDDLE SCHOOL  
WESTAREA ELEMENTARY SCHOOL  
WESTERN CAROLINA UNIVERSITY  
WESTERN NC NATURE CENTER  
WESTERN NORTH CAROLINA TOMORROW  
WESTERN PIEDMONT COG  
WEYERHAUSER  
WEYMOUTH WOODS SANDHILLS NATURE PRESERVE  
WHITE'S DESIGNS  
WILEY MIDDLE SCHOOL  
WILKES COUNTY SCHOOLS  
WILLIAM B. UMSTEAD STATE PARK  
WILLIAMSTON COOPERATIVE EXTENSION  
WILMINGTON COOPERATIVE EXTENSION 4-H  
WILMINGTON KEEP AMERICA BEAUTIFUL  
WILMINGTON REGIONAL OFFICE - EHNR  
WILSON COOPERATIVE EXTENSION 4-H  
WILSON COUNTY BOARD OF COMMISSIONERS  
WILSON KEEP AMERICA BEAUTIFUL  
WILSON SOIL & WATER  
WINSTON-SALEM COOPERATIVE EXTENSION  
WINSTON-SALEM KEEP AMERICA BEAUTIFUL

CHARLOTTE  
CHAPEL HILL  
GREENSBORO  
CAMERON  
WILMINGTON  
WILMINGTON  
STEVENS POINT  
ATLANTA, GA  
RES. TRIANGLE PARK  
RES. TRIANGLE PARK  
PISGAH FOREST  
GREENSBORO  
FAYETTEVILLE  
HOUSTON, TX  
JACKSONVILLE  
WHITEVILLE  
RALEIGH  
MORRISVILLE  
RALEIGH  
RALEIGH  
RALEIGH  
WAKE FOREST  
SWANNANOA  
WASHINGTON  
WASHINGTON  
GOLDSBORO  
GOLDSBORO  
WAYNESVILLE  
WEAVERVILLE  
STATESVILLE  
CARY  
FAYETTEVILLE  
CULLOWHEE  
ASHEVILLE  
CULLOWHEE  
HICKORY  
NEW BERN  
SOUTHERN PINES  
GERMANTOWN  
WINSTON-SALEM  
WILKESBORO  
RALEIGH  
WILLIAMSTON  
WILMINGTON  
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WINSTON-SALEM  
WINSTON-SALEM

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WINSTON-SALEM REGIONAL OFFICE-EHNR  
 WINSTON-SALEM SOIL & WATER DISTRICT  
 WINSTON-SALEM STATE UNIVERSITY  
 WINSTON-SALEM/FORSYTH COUNTY SCHOOLS  
 WRAL TV 5  
 YANCEY COUNTY 4-H

WINSTON-SALEM  
 WINSTON-SALEM  
 WINSTON-SALEM  
 WINSTON-SALEM  
 FAYETTEVILLE  
 BURNSVILLE

### 5.3 PRESENTERS AND EXHIBITORS

ASHEVILLE WATER DEPARTMENT  
 BETSY JEFF PENN 4H EDUC CNTR  
 CAPE FEAR BOTANICAL GARDENS  
 CAPE FEAR MUSEUM  
 CARNIVORE PRESERVATION TRUST  
 CAROLINA BEACH STATE PARK  
 CAROLINA OCEAN STUDIES  
 CAROLINA RAPTOR CENTER  
 CATAWBA SCIENCE CENTER  
 CGIA  
 CHARLOTTE MECKLENBURG UTILITIES  
 CITY OF CHARLOTTE  
 CLARK PARK NATURE CENTER  
 CLIFFS OF THE NEUSE STATE PARK  
 COLBURN GEM AND MINERAL MUSEUM  
 COOPERATIVE EXTENSION  
 COOPERATIVE EXTENSION 4-H  
 COOPERATIVE EXTENSION SERVICE  
 CRAVEN COUNTY CLEAN SWEEP  
 CREATED WETLAND PROJECT  
 CUMBERLAND COUNTY SOLID WASTE  
 DAN NICHOLAS PARK NATURE CTR  
 DEHNR  
 DIVISION OF WATER RESOURCES  
 DIVISION OF ENVIRONMENTAL MGT  
 DISCOVERY PLACE INCORPORATED  
 DIVISION OF COASTAL MANAGEMENT  
 DIV OF FOREST RESOURCES  
 DIV OF MARINE FISHERIES  
 DIV OF SOIL & WATER CONSERVATION  
 DIVISION OF COASTAL MANAGEMENT  
 ENERGY EXPLORIUM  
 ENVIRONMENTAL MEDIA  
 EXTENSION 4-H AND YOUTH DEVELOPMENT  
 FAYETTEVILLE PARKS & RECREATION  
 FEDERAL PAPER BOARD  
 FORT FISHER STATE PARK  
 FORT MACON STATE PARK  
 GASTON CONSERVATION DISTRICT  
 GASTONIA KEEP AMERICA BEAUTIFUL - CLEAN CITY  
 NC GEOLOGICAL SURVEY  
 GOOSE CREEK STATE PARK

ASHEVILLE  
 REIDSVILLE  
 FAYETTEVILLE  
 WILMINGTON  
 PITTSBORO  
 CAROLINA BEACH  
 CAROLINA BEACH  
 CHARLOTTE  
 HICKORY  
 ASHEVILLE  
 CHARLOTTE  
 CHARLOTTE  
 FAYETTEVILLE  
 SEVEN SPRINGS  
 ASHEVILLE  
 WILMINGTON  
 RAEFORD  
 DALLAS  
 NEW BERN  
 WILMINGTON  
 FAYETTEVILLE  
 SALISBURY  
 RALEIGH  
 RALEIGH  
 WASHINGTON  
 CHARLOTTE  
 BEAUFORT  
 RALEIGH  
 MOREHEAD CITY  
 WASHINGTON  
 RALEIGH  
 HUNTERSVILLE  
 CHAPEL HILL  
 RALEIGH  
 FAYETTEVILLE  
 BOLTON  
 CAROLINA BEACH  
 ATLANTIC BEACH  
 DALLAS  
 GASTONIA  
 RALEIGH  
 WASHINGTON

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GSMITT  
HANGING ROCK STATE PARK  
IMAGINATION STATION  
KEEP AMERICA BEAUTIFUL  
KEEP AMERICA BEAUTIFUL  
KEEP PAMLICO COUNTY BEAUTIFUL  
KEEP WAYNE COUNTY BEAUTIFUL  
MAGIC GARDENS  
MARINE FISHERIES  
MCNC  
MECKLENBURG COUNTY PARKS AND RECREATION  
MUSEUM OF NATURAL SCIENCES  
N. C. COOPERATIVE EXTENSION  
N. C. COOPERATIVE EXTENSION SERVICE  
N. C. COOPERATIVE EXTENSION SERVICE  
N. C. ZOO  
N.C. FORESTRY ASSOCIATION  
NATURAL SCIENCE CENTER OF GREENSBORO  
NC AQUARIUM - PINE KNOLL SHORE  
NC AQUARIUM - ROANOKE ISLAND  
NC AQUARIUM AT FORT FISHER  
NC COASTAL FEDERATION  
NC COOPERATIVE EXTENSION, 4-H  
NC DIV OF PARKS & RECREATION  
NC DPI  
NC FORESTRY SERVICE  
NC MUSEUM NATURAL SCIENCES  
NC PARKS AND RECREATION  
NC SOIL & WATER CONSERVATION  
NC SOLAR CENTER  
NC ST PARKS & RECREATION  
NC STATE PARKS  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC WILDLIFE RESOURCES COMMISSION  
NC ZOOLOGICAL SOCIETY INC  
NCSU  
NEUSE RIVER FOUNDATION  
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE  
NORTH CAROLINA COOPERATIVE EXTENSION SERVICE  
NORTH CAROLINA DIVISION OF COASTAL MANAGEMENT  
NORTH CAROLINA FOREST SERVICE  
NC NATURAL ESTAURINE RESEARCH RESERVE  
NCSU COOPERATIVE EXTENSION SERVICE  
NPS/ BLUE RIDGE PARKWAY  
OFFICE OF STATE PLANNING-CGIA  
PAMLICO-TAR

TOWNSINGTON  
DANBURY  
WILSON  
WILSON  
WILMINGTON  
BAYBORO  
GOLDSBORO  
ASHEVILLE  
MOREHEAD  
RTP  
CHARLOTTE  
RALEIGH  
GREENSBORO  
FAYETTEVILLE  
DOBSON  
ASHEBORO  
RALEIGH  
GREENSBORO  
ATLANTIC BEACH  
MANTEO  
KURE BEACH  
NEWPORT  
WILSON  
TROUTMAN  
RALEIGH  
GRANTSBORO  
RALEIGH  
RALEIGH  
RALEIGH  
RALEIGH  
SOUTHERN PINES  
HOLLISTER  
DENTON  
PLEASANT GARDEN  
RALEIGH  
EDENTON  
RONDA  
NEBO  
NEW BERN  
ASHEBORO  
RALEIGH  
NEW BERN  
STATESVILLE  
BAYBORO  
WILMINGTON  
MOUNT HOLLY  
BEAUFORT  
STATESVILLE  
ASHEVILLE.  
RALEIGH  
WASHINGTON

PETWORKS  
 PIEDMONT LAND CONSERVANCY  
 PILOT MOUNTAIN STATE PARK  
 PROJECT LEARNING TREE  
 PROJECT LEARNING TREE  
 QUALITY FORWARD  
 REEDY CREEK ENVIRON CENTER  
 ROCKY MOUNT CHILDRENS MUSEUM  
 SOIL & WATER CONSERVATION  
 STEVENS NATURE CENTER  
 UNITED STATES FISH AND WILDLIFE SERVICE  
 UNITED STATES FOREST SERVICE  
 UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE  
 UNC CHARLOTTE BOTANICAL GARDENS  
 UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
 UNIVERSITY OF NORTH CAROLINA SEA GRANT  
 US COAST GUARD  
 US EPA  
 US EPA / NC STATE UNIVERSITY  
 US FISH & WILDLIFE SERVICES  
 US FISH AND WILDLIFE SERVICE  
 WAKE CO. SOIL & WATER CONS DIS  
 WEYERHAEUSER COMPANY  
 WEYMOUTH WOODS SANDHILLS NATURE PRESERVE  
 WPCOG

ROCKY MOUNT  
 GREENSBORO  
 PINNACLE  
 WILLIAMSTON  
 WILMINGTON  
 ASHEVILLE  
 CHARLOTTE  
 ROCKY MOUNT  
 WINSTON-SALEM  
 CARY  
 ASHEVILLE  
 ASHEVILLE  
 CHARLOTTE  
 CHARLOTTE  
 WILMINGTON  
 ATLANTIC BEACH  
 WILMINGTON  
 RTP  
 RALEIGH  
 EDENTON  
 RALEIGH  
 RALEIGH  
 NEW BERN  
 SOUTHERN PINES  
 HICKORY

## 6. DRAFTING COMMITTEE

The following committee of representatives from the Department of Environment, Health and Natural Resources prepared an initial draft of the North Carolina Environmental Education Plan during deliberations from January through August 1994.

ALBEMARLE PAMLICO ESTUARINE STUDY  
 DIVISION OF COASTAL MANAGEMENT  
 DIVISION OF FOREST RESOURCES  
 DIVISION OF FOREST RESOURCES  
 DIVISION OF PARKS AND RECREATION  
 DIVISION OF PARKS AND RECREATION  
 DIVISION OF SOIL AND WATER CONSERVATION  
 MUSEUM OF NATURAL SCIENCES  
 MUSEUM OF NATURAL SCIENCES  
 MUSEUM OF NATURAL SCIENCES  
 NORTH CAROLINA AQUARIUMS  
 NORTH CAROLINA ZOOLOGICAL PARK  
 NORTH CAROLINA ZOOLOGICAL PARK  
 OFFICE OF ENVIRONMENTAL EDUCATION  
 OFFICE OF ENVIRONMENTAL EDUCATION  
 WILDLIFE RESOURCES COMMISSION  
 WILDLIFE RESOURCES COMMISSION

MARY W. RUMLEY  
 JOYCE ATKINSON  
 JAY DAVIES  
 JOE HOGUE  
 BECKY MARTY  
 MARTI KANE  
 PAT HOOPER  
 BETSY BENNETT  
 EVE VITAGLIONE  
 MARY ANN BRITTAIN  
 TERRI KIRBY  
 JANET BARBER  
 JOY JOHNSON  
 ANNE TAYLOR  
 JUDY POPE  
 CELESTE WESCOTT  
 SID BAYNÈS

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7. ENABLING LEGISLATION

SECTION 28. ARTICLE 7 OF CHAPTER 143B. PART 4B.

143B-285.20. *Short title.*

This Part shall be known and cited as the Environmental Education Act of 1993

143B-285.21. *Declaration of purpose.*

The purpose of this Part shall be to encourage, promote and support the development of programs, facilities and materials for the purpose of environmental education in North Carolina.

143B-285.22. *Creation.*

There is hereby created a North Carolina Office of Environmental Education (hereinafter referred to as 'Office') within the Department of Environment, Health and Natural Resources.

143B-285.23. *Powers and duties of the Secretary of Environment, Health and Natural Resources.*

The Secretary of Environment, Health and Natural Resources shall:

- (1) Establish an Office of Environmental Education to:
  - a. Serve as a clearinghouse of environmental information for the State.
  - b. Plan for the Department's future needs for environmental education materials and programs.
  - c. Maintain a computerized database of existing education materials and programs within the Department.
  - d. Maintain a speaker's bureau of environmental specialists to address environmental concerns and issues in communities across the State.
  - e. Evaluate opportunities for establishing regional environmental education centers.
  - f. Administer the Project Tomorrow Award Program to encourage school children to discover and explore ways to protect the environment.
  - g. Assist the Department of Public Instruction in integrating environmental education into course curricula.
  - h. Develop and implement a grants and award program for environmental education projects in schools and communities.
  
- (2) Coordinate, through technical assistance and staff support and with participation of the Department of Public Instruction and other relevant agencies, institutions and citizens, the planning and implementation of a statewide program of environmental education.
  
- (3) Be responsible for such matters as the purchase of educational equipment, materials and supplies; the construction or modification of facilities; and the employment of consultants and other personnel necessary to carry out the provisions of this Part.

(4) Encourage coordination between the various State and federal agencies, citizens groups and the business and industrial community, in the dissemination of environmental information and education.

(5) Utilize existing programs, educational materials, or facilities, both public and private, wherever feasible.

143B-285.24. *Grants and awards.*

The objective of grants and awards made under the provisions of this Part shall be to promote the further development of local and regional environmental education and information dissemination to aid especially, but not be limited to, school-age children. The Office shall recommend each year to the Governor recipients for the Project Tomorrow Award, which the Governor shall award for outstanding environmental projects by elementary schools in North Carolina.

**For Further Information Contact:  
Office of Environmental Education  
P.O. Box 27687  
Raleigh, NC 27611-7687  
919-733-0711**





U.S. DEPARTMENT OF EDUCATION  
Office of Educational Research and Improvement (OERI)  
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	Date: August 18, 1995



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