

# Environmental Education

# Grant, Profiles Fiscal Year 1996

U.S. Environmental Protection Agency Environmental Education Division Office of Communications, Education, and Public Affairs 401 M Street, SW (1707) Washington, DC 20460

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# FIFTH ANNUAL AWARD UNDER SECTION 6 OF THE NATIONAL ENVIRONMENTAL EDUCATION ACT (PUBLIC LAW 101-619)

This report summarizes 211 environmental education grants awarded by the United States Environmental Protection Agency (EPA) during fiscal year (FY) 1996. The Environmental Education Grants Program was created by Section 6 of the National Environmental Education Act and the first grants were issued in 1992. EPA's Environmental Education Division (EED) is responsible for management of the program. Grants are awarded annually by Headquarters and by all ten EPA regional offices as described below.

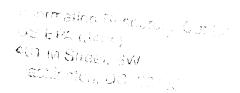
These grants are awarded to stimulate environmental education by supporting projects that design, demonstrate, or disseminate practices, methods, or techniques related to environmental education. The goal of this program is to support projects that enhance the public's awareness, knowledge, and skills to make informed and responsible decisions that affect environmental quality. Any tribal or local education agency; college or university; state education or environmental agency; nonprofit organization; or noncommercial educational broadcasting entity is eligible for grants under this program.

In FY 1996, Congress appropriated \$2.1 million for the grants program, and approximately \$3 million will be appropriated for FY 1997. Grants are awarded by EPA regional offices if they are for \$25,000 or less and by EPA Headquarters if larger. Federal funds may not exceed 75% of the total cost of any project. All dollar amounts reflect the EPA share of grants.

In FY 1996, Headquarters awarded nine grants for more than \$25,000, for a total of approximately \$628,000. Headquarters grants averaged approximately \$70,000 and more than half were for less than \$50,000. Each regional office awarded \$150,000, for a national total of 202 grants, which included 160 grants of \$5,000 or less, and 42 grants for more than \$5,000. Statistics on the grants for FY 1996 are presented in a table on page 49 of this document.

The competition for these environmental education grants is intense and the larger the dollar amount requested, the smaller the chance of being selected for funding. Nationwide in FY 1996, EPA received 1,896 applications requesting over \$52 million for environmental education grants and was able to fund 211 grants. The competition is the most intense at Headquarters, which was able to fund only nine of the 351 proposals received. Some of the factors that may be considered in selecting grantees include: issues addressed by the project, effectiveness of delivery system in reaching the targeted audience, realistic goals, evaluation system for assessing progress, and the strength of partnerships with community organizations.

The solicitation, evaluation, and award processes which indicate how EPA arrives at final decisions on grant awards are described each year in EPA's annual environmental education grants solicitation notice. You may obtain a copy of the solicitation notice by reviewing the *Federal Register* (located in most public libraries). You also may obtain a copy of the most recent solicitation notice by contacting EPA Headquarters or an EPA regional office. A list of EPA contacts is provided on page 50 of this document.



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# **EPA HEADQUARTERS GRANTS - More Than \$25,000**

(These profiles are repeated under the appropriate state sections)

Center for Instruction, Staff Development, and Evaluation (\$110,187) Trudi L. Volk, 1925 New Era Road, Carbondale, IL 62901

## **Environmental Education for Responsible Citizenship**

The Center for Instruction, Staff Development, and Evaluations project improves environmental education teaching skills for teachers and nonformal educators through workshops. Environmental Education for Responsible Citizenship trains 300 teachers and related personnel in Illinois to use existing research-proven environmental curricula with middle and secondary school students. The project helps these educators to conceptualize critical environmental issues and acquire and apply investigation skills for evaluation of environmental issues. These individuals are developing methodological skills to implement issue investigation and evaluation in classrooms. The project reaches 300 teachers and 10,000 students, including minorities.

City & County of Denver, Colorado (\$120,000)
Steve Foute, Denver Environmental Protection Division, Department of Health and Hospitals,
Public Health, 605 Bannock Street, Denver, CO 80204-4507

#### **Denver-CONNECT Environmental Education Teacher Training Project**

The City & County of Denver project improves environmental education training skills for teachers using a training and teaching site in the metropolitan area. Denver-CONNECT Environmental Education Teacher Training Project--Stapleton Site establishes and operates an environmental education site centered around a retired National Weather Service Station at decommissioned Stapleton International Airport. The project builds school district capacity to deliver and improve environmental education programs for teachers and students and provides education on the impact of pollution on public health. The project partners are upgrading the site and instruction modules, which will be used to train teachers on hands-on/minds-on observation, investigation, and analysis of real world environmental conditions and problems to teach students critical-thinking and problem-solving skills. Several hundred teachers and 70,000 students are being reached. These students are: 44% Hispanic, 30% White, 20% African American, and 6% other.

East Carolina University (\$25,750)

Dr. Katherine Warsco, School of Environmental Sciences, East Carolina University,
Greenville, NC 27858-4353

#### Designing For Good Indoor Air Quality: Student Design Competition As A Teaching Tool

The East Carolina University project assists postsecondary instructors and students of design to increase their knowledge of indoor air quality issues and help apply this knowledge to develop innovative solutions for radon-free, nontoxic, and allergy-free interiors. Designing For Good Indoor Air Quality: Student Design Competition As A Teaching Tool is accomplishing this by developing, disseminating, and implementing materials of design to increase student and instructor knowledge of indoor air quality issues. The project sponsors a student competition that is challenging students to put their knowledge of indoor air quality issues to effective use. The project has a broad target audience--560 faculty and 30,000 students in two and four-year university interior design programs in the U.S. The coastal southeast region is the primary focus because of the region's large population of low income elderly people living in older homes with greater indoor air quality problems. The project ultimately is promoting a healthier living environment for individuals living in that region and can be duplicated elsewhere.



## Green Classroom (\$67,430) Carla Marshall, 1701 Briar, Austin, TX 78704

#### The Green Classroom Community Environmental Learning Center

The Green Classroom, Inc. project forges an environmental education partnership--a Junior/Senior Alliance--between elementary school children and adults in Austin, Texas. The Green Classroom Community Environmental Learning Center includes an environmental resource library to provide a forum for the Junior/Senior Alliance. Both adults and children from the community together use the center to work on environmental issues and exhibits. An existing, well-established environmental curriculum framework is being distributed via workshops, videos, newsletters, and other means to these individuals and to a broader audience that includes the Austin Independent schools and state-wide schools. The project reaches 420 students from a low socioeconomic minority neighborhood (Bouldin Creek), 1,200 households, and 13,000 teachers from the Austin Independent School District and elsewhere in the state.

# Regents of New Mexico State University, Waste-Management Education & Research Consortium (\$144,981)

Dr. Larryl K. Matthews, Engineering Research Center, Office of Sponsored Programs, Box 30001, Dept. 3699, Las Cruces, NM 88003-8001

#### New Mexico/Mexico Needs Assessment and Environmental Teacher Training Program

The Waste-Management Education & Research Consortium at New Mexico State University project will conduct workshops to expand the environmental teaching capabilities of high school science and math teachers in New Mexico and the Mexican border city of Ciudad Juarez, Chihuahua. The New Mexico/Mexico Needs Assessment and Environmental Teacher Training Program ensures that high school environmental curricula reflect state-of-the art environmental education by training border area teachers to use existing environmental education resources such as New Mexico State Department of Education Benchmarks/Standards and National Consortium for Environmental Education and Training guidelines. A needs assessment is being conducted prior to the workshops to ensure their effectiveness. The more than 150 teachers who are being trained ultimately hope to reach an audience of more than 100,000 Mexican students and 82,000 high school students from New Mexico, including Native American and Hispanic students.

# Rivers Unlimited Mill Creek Restoration Project (\$35,000) Robin Corathers, #610, Two Centennial Plaza, 805 Central Ave., Cincinnati OH 45202

#### Exploring the Mill Creek Valley (Phase II)

The Rivers Unlimited Mill Creek Restoration project develops environmental education methods and materials for use in middle and senior high schools and communities near the severely polluted Mill Creek ecosystem in southwest Ohio. Exploring the Mill Creek Valley (Phase II) is working to motivate the communities to improve the quality of the creek by creating computer simulations of healthy landscapes and incorporating this information into interactive/multimedia materials and public exhibits. The target audience is 104 teachers and adult volunteers and 800 participating high school students attending 15 schools in the Mill Creek area.

# Salish Kootenai College (\$39,296) Kimberly Skyelander, P.O. Box 117, Highway 83, Pablo, MT 59855

## Flathead Indian Reservation Pollution Prevention Education Program

The Salish Kootenai College project educates the population of Arlee, Montana about the human health problems that will result from an unsafe drinking source for the community. Participants in the Flathead Indian Reservation Pollution Prevention Education Program are developing a public outreach program using local media to spark interest and curiosity among Arlee residents about the quality of their water. They also are developing pollution prevention education workshops to educate the community about the threats to their water supply and discuss potential strategies to protect it. Finally, the program offers technical support to the Arlee community to implement their pollution control strategies. The target



audience is the general population of 489 residents in Arlee on the Flathead Indian Reservation, half of whom are Native American. The project uses existing partnerships and can be duplicated on other reservations.

San Francisco League of Urban Gardeners (\$35,515)
Mohammed Nuru, 2088 Oakdale Ave., San Francisco, CA 94124

## **Lead Empowerment Action Demonstration**

The San Francisco League of Urban Gardeners (SLUG) project empowers San Francisco residents from low income and ethnically diverse communities to take action to reduce adult and children's exposure to lead in the soil. The Lead Empowerment Action Demonstration is accomplishing this goal using intensive one-day workshops that provide 500 families with immediate, tangible knowledge about the hazards of lead in the soil. The demonstration also teaches them how to limit their exposure to lead through landscaping and hardscaping strategies. SLUG is constructing a demonstration bed of barrier plants and hardscapes useful for preventing human access to lead-contaminated soil and offers free soil tests and landscape consultations to workshop attendees. The target audience for this project is low income, ethnically-diverse neighborhoods and communities.

University of Puerto Rico, Humacao University College (\$49,841) Alida Ortiz, UPR Sea Grant Program, Humacao, PR 00792

# Solid Wastes and Marine Debris: From Awareness to Action In-Service Training Workshop for Teachers in Puerto Rico

The University of Puerto Rico--Humacao University College project takes the problem of marine debris and solid waste from awareness to action. Solid Wastes and Marine Debris: From Awareness to Action In-Service Training Workshop for Teachers in Puerto Rico consists of a one-year, hands-on field workshop project that: (1) infuses the solid waste disposal problem as an environmental education component throughout the formal curriculum in Puerto Rico's school system, (2) trains 60 teachers with hands-on field experience in the scientific, social, and economic aspects of the solid waste problem, and (3) promotes the change of attitudes and behavior in students to lead to a reduction in the amount of solid waste found on Puerto Rican beaches and roads. The project reaches 60 teachers, but impacts more than 10,000 students.

#### **ALABAMA**

Central Florida Muscogee Tribe, Inc. (\$5,000)
Dr. Margaret B. Bogan, c/o EDRS Jacksonville State Univ., 700 Pelham Rd. N., Jacksonville, AL 36265-9982

#### **Nature Trail Development**

Participants in the Nature Trail Development project are building a system of nature trails, on tribal lands, through cypress, riverine swamp and low wetlands. A trail guide will be published to describe the plants found along the trail. The purpose of the project is to increase tribal capacity to deliver environmental education programs and to use the trail as a tool to educate tribal members about the ecology of tribal grounds.

Huntsville-Madison County Botanical Garden (\$4,965)
Melanie Garton, 4747 Bob Wallace Ave., Huntsville, AL 35805

#### Introducing Environmental Science to Teachers Grades K-6

The purpose of this project is to introduce environmental science to teachers of kindergarten through sixth grade. A teacher workshop on water, ecology and plant life will be conducted. The workshop will use visits to field sites, exhibits and outdoor classrooms as a vehicle. The target audience is 50 elementary teachers who have demonstrated leadership in science education.

#### ALASKA

Anchorage School District - Central School of Science (\$5,000) Dwight Taylor, P.O. Box 196614, Anchorage, AK 99519-6614

#### **Chester Creek Stream Ecology and Pollution Project**

The Chester Creek Stream Ecology and Pollution Project instructs 700 multi-ethnic middle school students from low income backgrounds about neighborhood pollution problems. Students learn about stream ecology and pollution, conduct water quality tests, and gather and classify stream micro and macro invertebrates. The students also research, prepare, practice, and deliver lessons in the classroom and on field trips. The teachers and parents are involved by teaching the "Living in Water Curriculum," developed by the National Aquarium in Baltimore. This curriculum is the project's source of lesson material.

Matanuska-Susitna Borough School District (\$4,700) Susan Dent, 125 West Evergreen Avenue, Palmer, AK 99645

# **Wetlands Education Program**

The purpose of this project is for ninth and tenth grade students to explore watersheds in the Cook Inlet. The students demonstrate their understanding of environmental science issues by constructing a nature trail with ponds and wetlands that can be used by the general public and other educational institutions and also by constructing model streams for use in each science classroom. These activities are helping the students engage in critical-thinking and problem-solving activities while creating projects for use by the community.

University of Alaska - Fairbanks, Center for Global Change (\$24,379) Elena Sparrow, P.O. Box 757740, Fairbanks, AK 99775-7740

#### Global Change Environmental Education in Alaska

The University of Alaska is piloting an interactive broadcasting training course on global change to 50-60 teachers in five sites in Alaska (Anchorage, Fairbanks, Juneau, Bethel, and Barrow). This course enables participants to successfully teach topics on global change through their existing curriculum, form

partnerships with scientists, and use technology with their students to access scientific information and participate in science projects. The course is reaching more than 2,000 students.

#### **ARIZONA**

American Lung Association (\$4,000) Liz McAuliffe, 102 West McDowell Road, Phoenix, AZ 85003

## Open Airways Indoor Air Quality Education with Emphasis on Second-Hand Smoke

This project identifies elementary school children who are at-risk for asthmatic illness in three metropolitan Phoenix school districts. Working with school nurse staff, the association conducts twice weekly sessions for three weeks to educate the children about asthma and the effects of environmental pollution, with special emphasis on second-hand smoke. Follow-up support seminars showing the effect of the disease on school attendance are being held for parents and school staff of asthmatic students.

# The Nature Conservancy (\$15,000)

Val Little, 300 East University Boulevard, Suite 230, Tucson, AZ 85705

#### Riparian Ecology Education Program (A teacher-training environmental education program)

Training under this grant is provided for 40 high school teachers from Maricopa and Yavapai Counties in water quality issues and riparian ecology. The sessions are conducted at Hassayampa River Preserve, one of the few places in Maricopa County where the Sonoran Desert is graced with perennial water, offering a wide array of plant and animal life. The workshop trains teachers to use curriculum which explores issues of resource allocation of natural elements, human use, and economic sustainability. The follow-up study involves field trips attended by classes of the trained teachers and is expected to attract 1,500 students to the preserve.

# Northern Arizona University (\$15,000) Anita Polehla, Box 4130, Flagstaff, AZ 86011

#### Strategic Environmental Plan for the Hopi Nation

This grant generates a plan for the Hopi Tribe to assess current and potential environmental education materials and practices with reference to their cultural appropriateness for use on reservation schools. The study is producing clear guidelines for allocating time and resources to curricula which have a significant impact on improving the quality of life, health, and heritage within the Hopi community.

# ARKANSAS

Arkansas 4-H Foundation, Inc., (\$5,000)
Darlene Barker, P.O. Box 391, Little Rock, AR 72203

#### 4-H Project S.T.O.P.

Through this project, Environmental Stewardship Youth Manuals and a teachers guide are being developed and training provided. The Stop Trashing Our Planet (STOP) and Respect the Land, Air and Water (LAW) program targets youth (ages 5 through 19), 100 extension professionals, and 125 volunteers.

# Cossatot Technical College (\$5,000) Laura Brand, P.O. Box 960, DeQueen, AR 71832

#### Water Quality Analysis Lab

A classroom water quality analysis laboratory will be developed and equipped for basic water quality analysis through this project. In addition, a course on water quality testing will be created to give



environmental technology students extensive hands-on experience. The lab also will be used by chemistry and science classes to introduce those students to the basic concepts of water quality testing.

#### **CALIFORNIA**

San Francisco League of Urban Gardeners (\$35,515)

Mohammed Nuru, 2088 Oakdale Ave., San Francisco, CA 94124

## **Lead Empowerment Action Demonstration**

The San Francisco League of Urban Gardeners (SLUG) project empowers San Francisco residents from low income and ethnically diverse communities to take action to reduce adult and children's exposure to lead in the soil. The Lead Empowerment Action Demonstration is accomplishing this goal using intensive one-day workshops that provide 500 families with immediate, tangible knowledge about the hazards of lead in the soil. The demonstration also teaches them how to limit their exposure to lead through landscaping and hardscaping strategies. SLUG is constructing a demonstration bed of barrier plants and hardscapes useful for preventing human access to lead-contaminated soil and offers free soil tests and landscape consultations to workshop attendees. The target audience for this project is low income, ethnically-diverse neighborhoods and communities.

American Lung Association (\$3,114) Jan H. Cortez, 2740 - 4th Avenue, San Diego, CA 92103

## Kids for Clean Air - School Based Clean Air Education Program

This grant provides curriculum materials on air quality issues for up to 250 elementary school teachers in San Diego County. The curriculum kit contains a lesson plan incorporating the relationship between clean air and respiratory health. Students are encouraged to express their understanding of the concepts presented by submitting a drawing for a poster contest.

Capistrano Unified School District (\$15,000) Kristen Nelson, 32972 Calle Perfecto, San Juan Capistrano, CA 92675

#### The Dana Hills Environmental Center and Nature Canyon

The Capistrano Unified School District is creating an environmental education center in a canyon on city grounds adjacent to Dana Hills High School. The completed educational center and trail system will offer local outdoor field trip study of plant and animal life for students throughout the school district and provide environmental career opportunities for high school students who manage the center and act as docents.

Community Environmental Council (\$4,923)
Cay Sanchez, 930 Miramonte Drive, Santa Barbara, CA 93109

#### **Teacher Training Environmental Workshops in Closing the Loop**

This grant allows the Community Environmental Council to conduct ten training workshops for teachers of kindergarten through twelfth grade in Santa Barbara County to implement the recycling curriculum, "Closing the Loop." The curriculum, available in English and Spanish and distributed free to each teacher who attends a workshop, promotes techniques and habits which lead to significant reductions from the waste stream.

Daedalus Alliance for Environmental Education (\$5,000)

Merle Okino O'Neill, 12702 Via Cortina, Suite 201B, Del Mar, CA 92014

#### Adopt-A-Watershed

Twenty teachers of kindergarten through 12th grade from Imperial Beach are being trained in an urban adaptation of the Adopt-A-Watershed curriculum. Using field inspection methods developed for city

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workers, the teachers visually inspect storm drains and monitor water quality at specified outlet points into the estuary and the bay. The data the teachers collect will be made available to students, other teachers, and community groups for long-range study and analysis.

#### Earth Island Institute (\$5,000)

Mandy Billinge, 300 Broadway, Suite 28, San Francisco, CA 94133-3312

#### **Pollution Reduction and Safe Bay Food Consumption**

An orientation workshop is being conducted for the faculty of Franklin Elementary School in Berkeley about the sources of pollution entering San Francisco Bay and the effect of these pollutants on the Bay estuary ecosystem and on human health. There will be a follow-up series of 10 three-hour workshops for four selected teachers and their classes. These sessions consist of hands-on investigative activities leading to projects to reduce pollution and to make informed choices about Bay food consumption.

#### City of Oakland (\$4,998)

Karen Greenspan, 1333 Broadway, Suite 330, Oakland, CA 94612

#### **Piralta Creek Community Education Project**

This grant will support the implementation of a plan to reduce residential creek pollution to Peralta Creek by organizing a team of 15 high school youth to coordinate volunteer community workdays to clean up and revegetate a portion of the creek. The focus of the project is to teach residents that the health of the creek has a direct impact on the health of the watershed and ultimately on their community.

# Rising Sun Energy Center (\$5,000)

Michael Arenson, P.O Box 2874, Santa Cruz, CA 95062

# **Solar Energy Teacher Training**

This grant supports a one-day workshop for 12 fourth through sixth grade teachers in Santa Cruz and Monterey Counties in renewable energy curriculum. Project personnel provide continuing support by presenting a demonstration lesson in each teacher's classroom and continuing to work with teachers to produce three additional lessons on renewable energy during the school year.

# San Francisco Bay Wildlife Society (\$3,000)

Amy Hutzel, P.O. Box 524, Newark, CA 94560

#### San Francisco Bay Models to be Used with Field Trip Orientation Workshops

The San Francisco Bay Wildlife Society's project adds two models of the southern portion of San Francisco Bay to the exhibits at the Visitor's Center in Fremont and the Environmental Education Center in Alviso. The models, depicting open sections of the bay, and upland, salt marsh, salt pond, and slough habitats, are used for orientation and interpretation for teachers and parents in preparation for class field trips to the Wildlife Refuge facilities.

#### San Francisco Unified School District (\$15,000)

Carmelo Sgarlato, 2550 - 25th Avenue, San Francisco, CA 94116

## The Environmental Leadership Initiative

Training is being provided for 16 high school teachers in an inquiry-based science curriculum, called "Issues, Evidence, and You," developed by the University of California Lawrence Hall of Science. Working in teams of two, the teachers will introduce a common ninth grade science program based on local environmental issues at their eight schools.

# Santa Monica Malibu School District (\$5,000) Pixie Beery, Will Rogers Elementary School, 2401 - 14th Street, Santa Monica, CA 90405

Project Plants: A Community Outreach to Encourage Environmentally Friendly Gardening
The Santa Monica Malibu School District is bringing together members of the Native Plant Society,
Coalition for Clean Air, and the City of Santa Monica with the fourth grade classes at Will Rogers
Elementary School, an inner city school with a predominantly minority enrollment. The project educates
the community through a brochure written and distributed by students that encourages residents to use
plants compatible with the environment and by installing a demonstration garden on campus that
exhibits the plants.

Save the Whales (\$5,000)

Maris Sidenstecker, P.O. Box 2397, Venice, CA 90291

Whales on Wheels (AWOW): A Hands-on Educational Program Offered in Spanish
For this project, classroom presentations will take place targeting the Spanish bilingual program in Los
Angeles schools to encourage students to take a participatory role in protecting oceans. The project
emphasizes pollution reduction actions students can take to protect human and marine health.

Student Conservation Association (\$5,000)

Brenda Cercone, 655 - 13th Street, Suite 304, Oakland, CA 94612

# Bay Area Conservation Career Development Program: College Participants Educate Younger Peers

This grant supports a project to provide training for college mentors to lead 28 students, selected from six Oakland high schools, through a series of overnight outdoor education sessions at three Bay Area sites. The students will analyze geology, vegetation, ocean, and estuary habitats at Marin Headlands, Point Reyes Seashore, and Golden Gate Wildlife Refuge in the context of how they relate to the students' home communities.

#### **COLORADO**

City & County of Denver, Colorado (\$120,000) Steve Foute, Denver Environmental Protection Division, Department of Health and Hospitals, Public Health, 605 Bannock Street, Denver, CO 80204-4507

#### **Denver-CONNECT Environmental Education Teacher Training Project**

The City & County of Denver project improves environmental education training skills for teachers using a training and teaching site in the metropolitan area. Denver-CONNECT Environmental Education Teacher Training Project--Stapleton Site establishes and operates an environmental education site centered around a retired National Weather Service Station at decommissioned Stapleton International Airport. The project builds school district capacity to deliver and improve environmental education programs for teachers and students and provides education on the impact of pollution on public health. The project partners are upgrading the site and instruction modules, which will be used to train teachers on hands-on/minds-on observation, investigation, and analysis of real world environmental conditions and problems to teach students critical-thinking and problem-solving skills. Several hundred teachers and 70,000 students are being reached. These students are: 44% Hispanic, 30% White, 20% African American, and 6% other.



# Colorado State University (\$11,285) Marcella Wells/Betty Eckert, Sponsored Programs, Fort Collins, CO 80523

#### Infusing Environmental Education into Math Curriculum

The Infusing Environmental Education into Math Curriculum project determines if an experiential outdoor approach to teaching math skills is more effective than traditional methods and if the Colorado Board of Education State Standards are being met. The project involves students and teachers at a middle school in Loveland, Colorado.

Green City Data Project (\$5,000) Linda Baggus, 3800 S. Glencoe, Denver, CO 80237

#### **Green City Data - Teacher Training**

The Green City Data project focuses on teacher training in outdoor education for middle and high school students. The students collect data for planning and management of urban natural areas. Low income, minority students examine ecosystems in their own neighborhoods as part of the project.

The Keystone Science Center (\$5,000) Chris Chopyak-Minor, P.O. Box 8606, Keystone, CO 80435

#### Wilderness Box

This urban outreach environmental education program, through the use of the Wilderness Box teaching curriculum, provides a hands-on educational curriculum to inner-city and urban teachers in Denver. The project focuses on wilderness values and preservation of wild lands. It is used with students from kindergarten through eighth grade.

#### CONNECTICUT

Connecticut Department of Environmental Protection (\$12,500) James Murphy, 79 Elm Street, Hartford, CT 06102-5127

#### **Environmental Issues Traveling Exhibit**

In conjunction with the University of Connecticut's Museum of Natural History, the Connecticut Department of Environmental Protection (DEP) is creating an Environmental Issues Traveling Exhibit for display at public venues statewide. The exhibit is communicating two primary ideas to exhibit viewers:

1) that the communities in which we live are the product of natural and cultural processes, which, when understood, can help us make more informed choices about how to use the land in the future; and 2) that the choices people make in their everyday lives affect the quality of life in their communities.

Save the Sound, Inc. (\$5,000)

T. Robin Brown, 185 Magee Avenue, Stamford, CT 06902-5939

Long Island Sound Watershed Workshops for Connecticut Elementary School Teachers
Save the Sound, in conjunction with the University of Connecticut Cooperative Extension System,
proposes training 100 upper-elementary school teachers from communities within the Long Island
Sound watershed on how to integrate information about preservation and restoration of the Sound into
their curriculum. The workshops will be held at five locations within the watershed and 15 to 30 teachers
will receive ten hours of training. The training will include hands-on learning activities about the Sound,
its watershed, and water quality to help them feel comfortable teaching this subject matter to their

students.



#### **DELAWARE**

Delaware Department of Natural Resources and Environmental Control (\$10,500) Nancy Rolli, 89 Kings Highway, P.O. Box 1401, Dover, DE 19903

#### Statewide Telecommunications for Delaware Educators

This project will train educators to integrate environmental education into existing curricula developed by Project WILD, Project Learning Tree, Aquatic WILD, and Project WET. The project will emphasize critical-thinking, problem-solving, and decision-making skills.

University of Delaware (\$5,000)

Jo Mercer, 210 Hullihen Hall, Newark, DE 19716

#### **Building Wild Life Habitat**

This project will build wildlife habitat on school grounds to enhance environmental knowledge and commitment of elementary school students and teachers. Participants include 620 students and 56 teachers and assistants.

#### DISTRICT OF COLUMBIA

American Road and Transportation Builders Association (ARTBA) (\$5,000)

Dr. Jonathan Deason, 1010 Massachusetts Avenue, N.W., Washington, DC 20001

#### **Lead-Based Paint Abatement Curriculum Development**

Participants in this project will develop a curriculum for teaching employees of the industry lead-based paint abatement practices to protect human health and the environment.

## **FLORIDA**

Clay County District Schools (\$5,000)
Susan H. Helmey, 900 Walnut St., Green Cove Springs, FL 32043

#### Careers To Go

The Careers To Go project is providing students with knowledge of environmental careers. A partnership will be developed between fourth through eighth grades and high school students, government agencies, and private industry experts in environmental fields. An environmental career kit will be developed called Go Carts, which consists of models, videotapes, curriculum materials, pamphlets, brochures, and other resources. The Go Carts will be a complete environmental resource kit for teacher use.

Imaginarium Hands-on Museum (\$5000) Pam Burt, 2000 Cranford Ave., Ft. Myers, FL 33916

## **Environmental Awareness and Activism for Everyone... Look Toward Tomorrow**

Environmental Awareness and Activism for Everyone... Look Toward Tomorrow is educating teachers students, and the general public about potential human health problems associated with environmental pollution. The project will reach 18,000 school children and 1,000 teachers. They will develop scientific investigative skills as they learn about groundwater contamination and remediation. Displays of remediation methods and projects developed by students will be exhibited at Imaginarium.

# Pinellas County Schools (\$14,428) Dr. Edward A. Brown III, 301 4th Street, SW, Largo, FL 34649

#### **Teacher Training Environmental Technology Workshops**

The Teacher Training Environmental Technology Workshops project creates a four-year, high school, program of study that prepares students for environmental careers. Two interdisciplinary teams of teachers representing vocational education, mathematics, science, language arts, and social studies will develop a curriculum. The curriculum will be developed by conducting a Developing a Curriculum (DACUM) Study to determine the necessary competencies for employment in environmental fields. It is anticipated that 90 percent of the graduates will enter environmental fields of employment. The workshops are designed to prepare the teachers for curriculum implementation.

# School Board of Alachua County (\$4,974) Dr. Donna Omer, 620 East University Ave., Gainesville, FL 32601

## **Gum Root Swamp**

The Gum Root Swamp project is providing physically handicapped students with interdisciplinary learning and job development while it increases student interest in ecology-related classes and careers. In cooperation with the St. Johns River Water Management District, the students co-manage an environmentally sensitive area called Gum Root Swamp. Students conduct field work that includes an inventory of major habitat regions, confirmation of existing habitat maps, and establishment of a trail system to connect various habitats.

## **GEORGIA**

# Chattahoochee Nature Center (\$4,995) Michelle Stripling, 9135 Willeo Road, Roswell, GA 30075

#### The Wonders of the Woodlands and Wetlands

The Wonders of the Woodlands and Wetlands is a workshop that is providing environmental education skills for 25 teachers. The workshop focuses on the importance of feeling at ease teaching outdoors. The workshop will emphasize using the natural environment in developing lesson plans and curriculum units while increasing awareness of the center's resources and programs that complement the classroom curriculum.

# Gordon County Schools, Gordon Central High School (\$4,800) Ms. Judy Peterson, 205 Warrior Path, Calhoun, GA 30703

#### The Wetland and Watershed (WE3) Management Program

The Wetland and Watershed (WE3) Management Program is initiating and implementing an integrated environmental education program for teachers that uses hands-on activities to develop the understanding of teachers and students regarding wetland and watershed management in the community. The primary vehicle for delivery will be workshops and outdoor classroom activities.

# Upper Chattahoochee Riverkeeper Fund, Inc. (\$5,000) Sally Bethea, P.O. Box 7338, Atlanta, GA 30357-0338

#### Chattahoochee River Adopt-A-Stream Network

Chattahoochee River Adopt-A-Stream Network is an educational effort to develop six new Riverkeeper groups consisting of 100 individuals in the Chattahoochee River Watershed during the next year, and to empower citizens to take action within their own communities. Riverkeeper will assist citizens in actions to prevent or curtail pollution of the watershed. A quarterly newsletter will be distributed to inform the communities of the condition of the river and its watershed.



#### **HAWAII**

Hawaii Audubon Society (\$4,800) Wendy Johnson, 1088 Bishop Street, Suite 808, Honolulu, Hi 96813

# Teacher Training Environmental Workshops: Programs and Processes Relating to Hawaiian Resource Conservation

The Hawaii Audubon Society is partnering with the State Department of Education to offer workshops to 600 middle and high school science teachers on programs that address native Hawaiian environmental issues. The workshops supply teachers with the tools they need to motivate students to question, examine, and explore such issues as the extinction of endangered native species, the transition from agrarian to urban development, water rights, and Hawaiian sovereignty.

Sea Life Park Marine Research Education Foundation (\$5,000) Vanessa Keliiholokai, 41-202 Kalanianaole Hwy, Waimanalo, Hl 96795

#### **Beach Detectives - Investigating Marine Environments**

This grant supports a project that combines nine teacher training workshops with a one-hour educational television program "KidScience" to present a curriculum for fifth and sixth graders that identifies sources and impacts of pollution affecting beach and marine environments. Follow-up class field trips take participants to community beach sites to implement the "Beach Detectives" curriculum and activities. Data collected from student beach research is posted on the KidScience Internet home page.

#### **IDAHO**

Idaho Department of Water Resources (\$5,000)

Dick Larsen, 1301 North Orchard Street, Boise, ID 83706

#### **Idaho Water Awareness Week**

This grant provides support to the Idaho Water Awareness Week, which is sponsored by 25 federal, state, and local government agencies, irrigation and municipal water systems, and utility and private sector companies. Support is in cooperation with approximately 25 Idaho school districts and the Boise Public Schools Educational Foundation. This program for sixth graders uses existing science curricula specifically focused on water and environmental education issues. Curriculum and support materials are provided to the teachers to use in structured classroom activities.

Valley Boys and Girls Club (\$5,000) Bob Liming, P.O. Box 1627, Lewiston, ID 83501

#### **Outdoor Education Resource Center**

The participants in this project are developing an outdoor education resources center at Camp Wittman, a local family farm site for environmental education activities near Lewiston County. The participants will assemble a comprehensive variety of curriculum materials and support equipment to facilitate quality natural resource education during camp sessions. They also will provide a centralized reference base for outdoor educators and environmental educators to receive training and support for planning their own environmental education programs.



#### **ILLINOIS**

Center for Instruction, Staff Development, and Evaluation (\$110,187) Trudi L. Volk, 1925 New Era Road, Carbondale, IL 62901

#### **Environmental Education for Responsible Citizenship**

The Center for Instruction, Staff Development, and Evaluations project improves environmental education teaching skills for teachers and nonformal educators through workshops. Environmental Education for Responsible Citizenship trains 300 teachers and related personnel in Illinois to use existing research-proven environmental curricula with middle and secondary school students. The project helps these educators to conceptualize critical environmental issues and acquire and apply investigation skills for evaluation of environmental issues. These individuals are developing methodological skills to implement issue investigation and evaluation in classrooms. The project reaches 300 teachers and 10,000 students, including minorities.

American Lung Association of Metropolitan Chicago (\$4,696)

Ron Burke, Director, Environmental and Occupational Health, 1440 West Washington, Chicago, IL 60607

#### Asthma Train-the-Trainer Program

The Asthma Train-the-Trainer Program has the goal of training health-care providers on how to reduce the prevalence and severity of asthma among low-income minorities. Health-care providers will transfer the training to their patients and teach them how to evaluate and abate home environmental asthmacausing exposures. The training will be evaluated and shared with other health-care institutions.

Eugene Field Chicago Public School (\$4,358)
Neal Schwartzberg, Science Lab Instructor, 7019 North Ashland, Chicago, IL 60626

## Lake Links Teacher Education Program

The Lake Links Teacher Education Program is building on the partnership the Eugene Field School has developed with the Chicago Academy of Sciences in order to educate fourth through eighth grade teachers about the school's Great Lakes curriculum entitled, *Lake Links*. Workshops will focus on issues that are relevant to the local Lake Michigan ecosystem and will engage teachers in water quality testing. School to home connections and community involvement will be integrated throughout the project

George Pullman Chicago Public School (\$4,650)
Patricia Scott, Teacher, 11113 S. Forrestville, Chicago, IL 60628

#### Strategic Technological Environmental Project Strategies for an Ecological Utopia

Through the Strategic Technological Environmental Project Strategies for an Ecological Utopia the George Pullman Elementary School body is learning about local environmental issues in southeast Chicago and developing a school-wide conservation plan. Staff, parents and the community are participating in action-oriented projects with the students related to water quality, recycling, toxic emissions, and gardening.

Illinois Environmental Education Advocacy Consortium (\$5,000)

Nan Buckardt, Treasurer, c/o Environmental Education Association of Illinois, 2060 North Clark

Street, Chicago, IL 60614

#### Training Workshop for Nonformal Environmental Education Providers

The Illinois Environmental Education Advocacy Consortium is refining an in-service training workshop it recently developed for nonformal educators statewide. The workshop covers environmental education



pedagogy, state learning standards, assessment, and environmental education resources. The workshop is enabling nonformal educators to incorporate the latest environmental education developments into programs they offer to Illinois classroom teachers.

# Regional Office of Education #40 (\$5,000) Kyle Hlafka, Executive Director, 220 North Broad Street, Carlinville, IL 62626

#### **H2O Below**

The Regional Office of Education is providing educator training and follow-up networking sessions to 15 rural districts and eight private schools using H2O Below, an interdisciplinary groundwater education program. Teachers will learn how to conduct a well history survey and test water quality. Teachers will also learn how to use Beaver Dam State Park and McCully Heritage Project as outdoor learning laboratories.

#### INDIANA

Clarksville Riverfront Foundation (\$5,000)

Dani Cummins, Director of Development, P.O. Box 741, Jeffersonville, IN 47131-0741

# Interdisciplinary Environmental Summer Institute

The Clarksville Riverfront Foundation is conducting a five-week Interdisciplinary Environmental Summer Institute at the Falls of Ohio Interpretive Center State Park and National Wildlife Conservation area. The program involves 15 teachers and 150 students from school districts in Indiana and Kentucky. Teachers participate in two-day workshops and then lead a week-long experience for students using curriculum materials Clarksville developed under a previous EPA grant.

Heritage Hills Middle School (\$4,500) North Spencer County School Corporation, Michael Schriefer, P.O. Box 416, Lincoln City, IN 47552

#### Thematic Instruction Environmental Workshops

In the Thematic Instruction Environmental Workshops project, Heritage Hills Middle School is training its teachers about the delivery of thematic instruction related to environmental issues, and engaging students in research and hands-on activities. Parents and community members will join students in the design of an outdoor teaching laboratory to be developed on the forest area of the school campus.

## **IOWA**

Andrew Jackson Demonstration Farm Corp. (\$4,725) Theresa H. Weiss, 201 W. Platt St., Maquoketa, IA 52060

#### **Teacher Training Workshop**

The Teacher Training Workshop project trains middle school teachers to use a watershed approach to agriculture and the environment. Participants in the project are developing an outdoor environmental education site at the Andrew Jackson Demonstration Farm. A workshop is being held for the teachers to demonstrate what is available for outdoor education at the site and how it can be used to teach environmental education activities. The model developed for the project can be used by schools, organizations, or local government agencies to establish similar sites in lowa.



# Cedar County Conservation Board (\$5,000) Hector Ibarra, 1400 Cedar St., Courthouse, Tipton, IA 52772

#### Rings of Life: Learning and Growing Together

The Rings of Life: Learning and Growing Together project provides long-term learning experiences that require students, faculty, and community commitment and involvement. Rings of Life brings the community, businesses and schools together. The project is a three-year cycle of instruction involving four middle schools that are: planting trees; testing water and soil; analyzing core boring; writing reflectively on their findings; creating an Internet Web site; and developing computer-generated multimedia presentations while constructing a WILD School Site.

# Iowa Department of Natural Resources (\$3,300) Larry L. Bean, Wallace Building, Des Moines, IA 50319-0034

#### Wind Energy Seminar and Workshop

The Wind Energy Seminar and Workshop provides a forum to improve environmental education skills for teachers, faculty, and nonformal educators knowledgeable in the area of wind energy production and use. Through direct mailings and other media activities, the project also is educating rural citizens of lowa about the environmental benefits and economic value of using the wind to produce energy.

# Kiwanis Nature Island (\$4,920) Cindy Blobaum, 111 Ninth St., Suite 180, Des Moines, IA 50314

#### Watching Our Water (WOW)

The Watching Our Water (WOW) project is assembling a team of knowledgeable urban, minority high school students who can actively educate others about the environmental and health issues surrounding the state-wide debate concerning the development of large-scale hog confinements and their potential effect on water quality. WOW is teaming with the Kiwanis Nature Island Naturalist and 20 Science Bound students from North High School who are learning about the source, potential contaminants, and treatment of water. They participate in valid scientific measurements and become an active agent of environmental education.

# North Cedar Community Schools (\$5,000) Margaret Sandeghpour-Kramer, 400 Ball St., Clarence, IA 52305

#### **Teacher Training**

This project instructs teachers, administrators, and community volunteers in environmental and service learning education to facilitate developing the joint school-community trail and gardens system. The target audience includes 12 teachers, one administrator, sixth and seventh grade students, and 300 community participants. The results will include the establishment of a trail and garden system and the cleanup and restoration of a nearby stream.

# Page County Soil & Water District (\$5,000) Kevin McCall, 1213 5th Avenue, Shenandoah, IA 51601

#### **Environmental Education Program for Southwest Iowa**

The Environmental Education Program for Southwest Iowa provides four in-service training sessions and supporting material for more than 75 teachers and administrators. As many as 2,500 students in kindergarten through twelfth grade have access to quality environmental education not previously available to them. The project will organize 25 environmental education programs for local community groups. The project's goal is to expand public understanding of lowa ecology, dependence on the ecosystems, attainment of a sustainable life style, and to increase teaching skills involved in outdoor education.

# Willow Creek Field Lab Foundation (\$4,630) Dan Towers, 114 N. Chestnut, Courthouse, Jefferson, IA 50129

#### Willow Creek Wetland Field Lab: Problem Solving Techniques

The Willow Creek Wetland Field Lab: Problem Solving Techniques project is improving environmental education teaching skills for educators from 13 public school districts and seven parochial schools in four counties, to engage almost 11,000 students in kindergarten through twelfth grade in on-site learning activities at a significant wetland complex. A series of workshops offered throughout the year, lead by local environmental specialists from various state and local agencies and organizations, present materials appropriate for the region. The project builds capacity within lowa for developing and delivering wetland-based environmental education programs and will reach communities with a grassroots community-based organization which actively encourages wetland protection, development, and restoration.

Winnebago County Soil and Water Conservation District (\$771)

Mark Sandvik, 163 First Avenue, E. P. O. Box 85, Thompson, IA 50478-0085

# Equipment to Teach Water Ecology for the Lake Catherine Learning Center.

The project will focus on providing eighth graders a hands-on experience in comparing the ecology of wetlands to man-made impoundments. The study will focus on how wetlands filter pollutants and store eroded sediments. The sessions will combine field and laboratory work. The result will give the students an understanding of the biological diversity of wetland ecosystems.

Wright County Conservation Board (\$750)
Bruce Voigts, 1768 O'Brien Avenue, Clarion, IA 50525

#### Water Testing of County Streams and Rivers in Wright County

The project will focus on educating teachers, students, and the general public about human health problems associated with environmental pollution from animal waste draining into the waterways of the county.

#### **KANSAS**

Haskell Indian Nations University (\$16,658) Bill Welton, 155 Indian Avenue, Lawrence, KS 66046

#### **Environmental Education Practicum**

The Environmental Education Practicum brings American Indian students and teachers or elders from various Indian nations together to accomplish objectives of a pollution prevention program to benefit an American Indian community. The target audience is 21 junior and senior high school students, three teacher and elder facilitators, and three student facilitators. The home communities who benefit from the exposure of these American Indian teachers and students are empowered to enhance environmental justice locally for culturally-diverse and low income populations.

Turner Unified School District #202 (\$4,999) Jim Benz, 800 S. 55 St., Kansas City, KS 66106

#### **Expanding Water Studies into High School**

The Expanding Water Studies into Turner High School and Neighboring Wyandotte County Schools project promotes environmental careers for high school students by expanding the current water studies program into the high school curriculum and into neighboring schools. The target audience is 600 students in ninth through twelfth grades in Turner High School and other Wyandotte County schools. This audience is being reached using the Missouri Stream Teams program and is being taught in the chemistry and biology classes.

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#### KENTUCKY

Clay County Board of Education (Clay County High School) (\$4,000) Jocelyn Wolfe, 248 Richmond Road, Manchester, KY 40962

## **Development of an Outdoor Classroom**

This project is creating an outdoor environmental research center that will be used by 12 teachers, 700 students and 15 community members for presentations, demonstrations, field trips, mentoring, and environmental lessons. Major emphasis will be on soil, water, and weather learning stations as well as a wetland area with raised walkways, and a garden and crop study area using environmentally friendly chemicals.

Learning Pursuits, Inc. (\$4,859)

Jeanette McDermott, 1016 Baxter Ave., Louisville, KY 40204

#### No Place Like Dome

The No Place Like Dome project is helping high school students see the possibilities of the environmental career options available to them. The project provides a setting which allows students to work with industry and government environmental professionals in the process of planning, designing, and constructing a solar-powered demonstration classroom and greenhouse.

#### LOUISIANA

Zachary Historical Association (\$5,000) Lois Hastings, P.O. Box 1144, Zachary, LA 70791

#### **Environmental Awareness and Testing Program**

The Environmental Awareness and Testing Program involves 1,000 local middle school students (of whom approximately 50 percent are from a minority population), including special education students with mental and physical handicaps. At the Zachary Historical Association's unique facility, the students are learning research and testing techniques through hands-on experiences.

#### MAINE

Aroostook Literacy Coalition (\$9,650) Ervin MacDonald, P.O. Box 190, Houlton, ME 04730

#### **Pollution Prevention Education Project for the General Public**

The Aroostook Literacy Coalition is a diverse, nonprofit organization that proposes to educate people in the state's northernmost, rural county about pollution prevention by offering a seminar series in each of six locations throughout the county. Topics in the Pollution Prevention Education Project for the General Public are based upon a statewide survey done under the "Maine Environmental Priorities Project" and include "Eco" tourism, air quality, sustainable forestry practices, drinking water quality, and regulations for recreational vehicle usage. Seminars are being designed so that participants can develop strategies to balance economic development, tourism, recreation, and preservation in their communities.

Houlton High School (\$5,000) Christy Fitzpatrick, P.O. Box 190, Houlton, ME 04730

#### Yard Waste Composting: Community Service Curriculum

The Yard Waste Composting: Community Service Curriculum project is developing a core of trained students to set up and monitor a pilot project on yard waste composting during the 1996-1997 school year. It will educate local citizens on the importance of composting yard waste, allow students and teachers a chance to use an experimental science class designed around a real-life project, and provide



citizens of the Houlton area with a local site to compost yard waste. Students will create experimental plots to test various compost recipes, rates of turning, and physical arrangements for compost formation.

#### **MARYLAND**

Calvert County Public Schools (\$24,975)

Jo Ann Roberts, 1305 Dares Beach Road, Prince Frederick, MD 20678

# Workshop - Creating and Using a School Yard Habitat

This project involves the development of a teacher workshop prototype to create and enhance a wildlife habitat area on school grounds. Training will be provided by a team from state, federal, and local agencies.

Maryland Association of Soil Conservation Districts (\$5,000) Lynn Hoot, 53 Slama Road, Edgewater, MD 21037

#### **Envirothon**

Maryland high school students will learn through competition at the annual statewide "Envirothon." The goal of the Maryland Association of Soil Conservation Districts is to expand the competition from 21 Maryland counties to all 24 counties. Also, this year they plan to start a noncompetitive summer program for middle school students.

#### **MASSACHUSETTS**

Appalachian Mountain Club (\$5,000) Kevin T. Knobloch. 5 Joy Street, Boston, MA 02108

#### The Urban Stewards Program

The Urban Stewards Program is a community-based conservation project, as well as an environmental careers training program, for urban youth in the diverse and disadvantaged community of Chelsea. Participants in the program are teaching outreach and advocacy skills through the process of planning, promoting, and implementing a neighborhood environmental service project. The project is providing youth with the necessary training to become more competitive candidates for employment in the environmental and recreational fields. It also will help young people establish a community base for the maintenance of local parks and green spaces and to provide support for environmental issues.

E.N. Rogers Middle School, Lowell (\$5,000)

Joseph Mastrocola, 89 Appleton Street, Lowell, MA 01852

# The Merrimack River: Our Ecological and Industrial Lifeline

The Merrimack River: Our Ecological and Industrial Lifeline project will focus on educating teachers, students, and the public about human health problems from environmental pollution. The E.N. Rogers Environmental School, in collaboration with several partners, will use an environmental thematic curriculum to have students: examine the effects of water quality on an urban river; collaborate over the Internet with students from Great Britain on historical comparative research; and develop critical thinking, problem solving, decision making and laboratory skills.

Harvard School of Public Health (\$9,000)
Marshall Katler, 665 Huntington Avenue, Boston, MA 02115

# **Environmental Health Education Project**

The Environmental Health Education Project, which is an expansion of an existing Harvard School of Public Health program, aims to increase awareness of the environment and its effects on health among fifth grade public school students by sharing technical expertise with teachers and students. The project



is a hands-on educational outreach program that brings high quality instruction about human health and its relation to the environment to inner-city school children.

Massachusetts Audubon Society, Arcadia Wildlife Sanctuary (\$5,000) Tony Symasko, 127 Combs Road, Easthampton, MA 01027

#### An Urban Collaborative Providing Environmental Field Trips

Through this project, the Arcadia Wildlife Sanctuary, in partnership with local organizations, provides summer environmental field trips for minority youth in Holyoke. Hispanic children between the ages of five and 12 who live in Holyoke housing development projects or are served by social agencies or nonprofit agencies are being introduced to environmental science through field trips to nearby natural areas, hands-on activities, and simple biological testing techniques.

Massachusetts Audubon Society, Broad Meadow Brook Wildlife Sanctuary (\$5,000) Deborah Carey, 414 Massasoit Road, Worcester, MA 01604-3346

#### Urban Youth: Bridging the Gap to Nature

The Urban Youth: Bridging the Gap to Nature project is educating the underserved, minority residents of Worcester through the program. Participants will be engaged in one of the following types of activities: after-school workshops for elementary students, teen parenting programs, summer programs in the parks, and preschool workshops. The emphasis is on hands-on, inquiry-based, self-directed learning, in which the minds and hearts of students are engaged.

Massachusetts Department of Fisheries, Wildlife, & Environmental Law Enforcement, Riverways Program (\$20,000)

Maria Van Dusen, 100 Cambridge Street, Room 1901, Boston, MA 02202

#### Riverways Shoreline Surveys for Massachusetts Communities

The Riverways Shoreline Survey promotes the protection and restoration of rivers in Massachusetts by teaching citizens about the components of healthy rivers and encouraging active stewardship through stream adoption. Community groups will conduct shoreline surveys using Adopt-A-Stream manuals and supported by Riverways staff. Each survey will provide baseline data on nonpoint source pollution, stream flow, and riparian habitat so the groups can determine priorities for their stream section and implement their action plan with the assistance of local citizens, municipal governments, businesses, civic organizations, and Riverways staff.

Metropolitan District Commission (\$4,500) Karl Pastore, 20 Somerset Street, Boston, MA 02108

# **Environmental Education Obstacle Course**

The Environmental Education Obstacle Course is offering metropolitan Boston area teachers and community group leaders an experiential program that fosters an understanding of key environmental concepts and enhances their environmental teaching skills. The project involves a 0.75 mile loop trail with four stations. Using a workbook provided, teams of teachers will perform a variety of tasks, including such things as water quality sampling and map reading, and answer a series of questions related to the environment.

The Thoreau Society, Inc. (\$20,000)
Tom Harris, 44 Baker Farm, Lincoln, MA 01773

#### The Environmental Teacher Workshop

The Environmental Teacher Workshop focuses on the capacity of teachers to teach environmental studies across disciplines and to raise the environmental consciousness of high school students to prepare them to be committed, environmentally literate adults. This project will be accomplished by

means of a six-week summer workshop at the Thoreau Institute in Lincoln. During the workshop, high school teachers are learning a multidisciplinary approach to environmental studies and will have an opportunity to work with world-class Thoreau scholars, botanists, geologists, environmentalists, and other professionals to prepare lesson plans for units to be taught the following fall.

University of Massachusetts Extension Service (\$5,000)

Robert Schrader, 215 Stockbridge Hall, Amherst, MA 01003

#### **Model for Community Environmental Education**

The Model for Community Environmental Education project is completing the "Taunton River Watershed Connections Curriculum" for students in sixth through twelfth grades. The curriculum has been in development for four years. It will serve as a model for watershed outreach in pollution prevention from the school to the local community and businesses. The project team of scientists and educators will test, evaluate, and finalize the curriculum and disseminate the final product along with resource kits through workshops for teachers in the Taunton River watershed.

Upper Cape Cod Regional Technical School (\$5,000)

Margaret Wise, 220 Sandwich Road, Bourne, MA 02532

#### **Summer Exploratory Program in Environmental Technologies**

The Summer Exploratory Program in Environmental Technologies project is attracting students into the school's Environmental Technology Program and ultimately into environmental careers by providing seventh and eighth graders with a summer exploratory education program. As a result of this project, students increase their awareness of the environment, become more knowledgeable about careers in the environmental field, and enroll in an environmental technology career pathway.

Wampanoag Tribe of Gay Head (\$12,555)
Philippe Jordi, 20 Black Brook Road, Gay Head, MA 02535

# The Aquinnah Environmental Education Project

The Aquinnah Environmental Education Project is using existing environmental curricula and case studies to develop a tribal environmental handbook. The goal of the project is to protect the Tribal lands' ecologically sensitive watershed from pollution, loss of wildlife habitat, and fisheries decline. It also includes hands-on field investigations and workshops to provide project participants with the skills they need to make informed environmental policy decisions.

#### **MICHIGAN**

Allegan Intermediate School District (ISD) (\$5,000) Linda Gan, Supervisor, Special Programs and Projects, 310 Thomas Street, Allegan, MI 49010

#### Applied Environmental Education and Community Involvement in Allegan County

The Applied Environmental Education and Community Involvement project in Allegan County involves a partnership with the local village and community and Allegan County Intermediate School District to teach students about the local watershed and municipal and wastewater treatment systems by engaging them in water quality testing. Students are gathering and analyzing the data with the local village and Department of Natural Resources, and students will present the information to the community through local forums.



Delta-Schoolcraft Intermediate School District (\$5,000)

Robert W. Ling, Jr., Director, Clear Lake Education Center, 2525 Third Avenue South,
Escanaba. MI 49829

#### **Multicultural Forestry Camp**

The Delta-Schoolcraft Intermediate School District is conducting a *Multicultural Forestry Camp* for African American, Native American, and Pacific Islanders to teach math and science and encourage the pursuit of environmental careers. Hands-on problem solving exercises are being led by natural resource professionals at the Hiawatha National Forest, Clear Lake Education Center, and the Michigan Technological University campus.

# Glencairn Elementary School (\$5,000)

Kari L. Naghtin, Associate Principal, 939 N. Harrison, East Lansing, MI 48823

#### Wetland-Watershed Environmental Education Project

In partnership with Michigan United Conservation Clubs, Michigan State University, and the Lansing Area Groundwater Management Board, the Wetland-Watershed Environmental Education Project is educating its teachers about groundwater, wetlands, and watersheds. Along with their 225 elementary students, the teachers monitor and protect the school's wetland and use it as a training ground for hands-on education.

## The Greening of Detroit (\$5,000)

Denise Wecker-Seipke, Executive Director, Whittier Towers, 415 Burns Drive, Detroit, MI 48214

#### Treekeepers

Tree-Keepers Training Workshops assist community residents and volunteers in reforesting and revitalizing the empowerment zone in Detroit. Once trained, the treekeeper teams work closely with neighborhood groups to select, plant, and maintain tree stock on public lands.

#### Michigan Technological University (\$5,000)

Joan Schumaker-Chadde, Education Outreach Specialist, Regional GEM Center 1400 Townsend Drive, Houghton, MI 49931-1295

#### **Watershed Education Program**

The Watershed Education Program consists of various professional development opportunities for formal and nonformal educators in the western Upper Peninsula of Michigan. Included are one-day awareness workshops focused on cross-curriculum integration of existing water education resources; a one-week in-depth, hands-on workshop in water sampling, including chemical and biological water assessment and computer technology work; and a mini-grant program so workshop participants can purchase supplies for the classroom.

#### U-SNAP-BAC, Inc. (\$6,450)

Linda Smith, Executive Director, 11101 Morang, Detroit, MI 48224

#### **Environmental Negotiations Skills Seminars**

Environmental Negotiations Skills Seminars are two-day seminars offered by U-SNAP-BAC and several partners to residents in the east side of Detroit. The seminars teach participants how to negotiate with financial institutions, developers, and state and local governmental agencies on residential, commercial, and industrial redevelopment of Brownfields and other urban sites. Brownfields are abandoned or under-used industrial sites. These model seminars employ an innovative role-play technique and include a feedback tool that enables groups to monitor their negotiation behaviors and evaluate progress. U-SNAP-BAC will develop a final product that describes the process of planning and offering these seminars to enable other communities to offer similar programs.

#### **MINNESOTA**

Bell Museum of Natural History, University of Minnesota (\$5,000) Kevin Williams, Curator of Exhibitions, 10 Church Street, SE, Minneapolis, MN 55455

# Making Urban Students Environmentally Aware Through Object-Based Learning

The Making Urban Students Environmentally Aware Through Object-Based Learning project provides professional development opportunities on environmental issues such as wetlands, soils, and habitats for teachers in ten urban, alternative schools of Minneapolis. Workshops employ object-based learning and will be followed up with class visits by educators in museums to assist teachers in the transfer of materials and teaching strategies to the classroom.

Dakota County Environmental Education Program (\$5,000) Charlotte Shover, Environmental Education Coordinator, 821 Third Street, Suite 100, Farmington, MN 55024

#### Dissemination and Embellishment of Project WET Materials

Dissemination and Embellishment of Project WET Materials involves a partnership with the Minnesota Zoo to support Project WET teacher workshops by providing and disseminating resource materials throughout the county. The environmental education coordinator is developing water history trunks and is purchasing materials that educators can use after they attend Project WET workshops. Dakota County also will work to connect teachers interested in water-quality education with city staff working on water quality and natural resource issues.

Minneapolis Public Schools (\$4,820) Linda Bjorklund, Development Coordinator, 807 Northeast Broadway, Minneapolis, MN 55413

## **Lincoln Environmental Project**

The Lincoln Environmental Project enhances teacher effectiveness in the teaching of science at Lincoln Fundamental, a public elementary school located in a federally-designated enterprise community. Along with parent and community volunteers, Lincoln's staff will be trained to design and establish a natural environment on the school grounds. Once trained, the teachers will lead their students through handson experiences in order to beautify the school grounds.

#### MISSISSIPPI

Keep Mississippi Beautiful/People Against Litter (\$5,000) Sharon M. Buckner, 4785 I 55 N. Suite 103, Jackson, MS 39206

#### **Teacher Environmental Workshop**

The Teacher Environmental Workshop is introducing the Keep America Beautiful elementary curriculum — A Waste In Place — to educators for use in their classrooms. The emphasis of the program is reduction of solid waste and litter prevention through waste reduction, recycling, composting, waste-to-energy programs, and landfills. A series of nine workshops will target 223 teachers across the state of Mississippi.



Piney Woods Country Life School (\$4,500) Shavne Banks. P.O. Box 99, Piney Woods, MS 39148

#### Interdisciplinary Summer Institute Environmental Education Camp

The Interdisciplinary Summer Institute Environmental Education Camp project is encouraging students to explore environmental careers by introducing them to environmental issues and the management and preservation of natural resources. A camp for youth from 11 to 15 years old will be conducted. The camp will put emphasis on developing critical-thinking skills as applied to environmental issues and stimulating students' minds relative to general environmental issues and concerns.

#### **MISSOURI**

Missouri Botanical Garden (\$14,012) Dr. Larry DeBuhr, P. O. Box 299, St. Louis, MO 63166

# **Dissemination of Environmental Science Curriculum**

The Dissemination of Environmental Science Curriculum project improves environmental education teaching skills of teachers of second to fifth grades by disseminating an existing environmental science curriculum to new audiences using the Internet and World Wide Web. The immediate target audience is teachers at 5,000 elementary schools already using *The Environment* video series. The video series shows children how to investigate an environmental issue and identify ways to help solve environmental problems or change their own behavior.

University of Missouri - St. Louis (\$24,660)

Marvin Beckerman, 8001 Natural Bridge Road, St. Louis, MO 63121-4499

#### **Environmental Citizenship**

This project improves environmental education skills of the teachers involved in the project and those education majors who serve as facilitators for the project. The project involves 150 students from six middle schools in St. Louis and St. Louis County. The focus will be on four issues: toxic waste, solid waste, air pollution, and mass transit. An investigative approach is used where students investigate the issues, discuss, develop, and implement a plan.

## **MONTANA**

Salish Kootenai College (\$39,296) Kimberly Skyelander, P.O. Box 117, Highway 83, Pablo, MT 59855

## Flathead Indian Reservation Pollution Prevention Education Program

The Salish Kootenai College project educates the population of Arlee, Montana about the human health problems that will result from an unsafe drinking source for the community. Participants in the Flathead Indian Reservation Pollution Prevention Education Program are developing a public outreach program using local media to spark interest and curiosity among Arlee residents about the quality of their water. They also are developing pollution prevention education workshops to educate the community about the threats to their water supply and discuss potential strategies to protect it. Finally, the program offers technical support to the Arlee community to implement their pollution control strategies. The target audience is the general population of 489 residents in Arlee on the Flathead Indian Reservation, half of whom are Native American. The project uses existing partnerships and can be duplicated on other reservations.

# Blackfeet Community College (\$5,000) Carol Murray, P.O. Box 819, Browning Glacier County, MT 39417

#### **Environmental Careers on the Blackfeet Indian Reservation**

The purpose of this project is to establish a natural resources camp to educate the general public and promote environmental careers for the youth on the reservation. Presentations provide a hands-on learning experience to increase knowledge of environmental issues. This project educates the students, parents, and volunteers about natural resource issues important on the Blackfeet Indian Reservation.

Montana State University (\$5,000)

Mike Cavey, Room 203 Tatlor Hall, Bozeman, MT 59717

## **Montana Project Learning Tree**

This project is for kindergarten through 12th grade teachers. It develops state capacity for promoting environmental education and outdoor education. Teachers learn ways to infuse environmental education into existing curricula. Efforts are being made to secure participation by Native American teachers.

Montana State University Extension (\$5,000) Sherry Lajeunesse, 334 Leon Johnson Hall, Bozeman, MT 39717

# **Electronic Landscape**

This project creates an electronic home and garden center which uses state-of-the-art communication measures to educate and modify homeowner behavior. The project provides research-based, unbiased information to teach homeowners to solve their own landscape, home, and garden problems through multi-disciplinary approaches.

Northern Plains Resource Council (\$5,000)

Denise Roth/Teresa Erickson, 2401 Montana Avenue, #220, Billings, MT 59101

## **Pollution Prevention Project**

This pollution prevention project, focused in the Yellowstone County community, motivates and increases the level of citizen involvement in environmental issues. Citizens adopt strategies to reduce or prevent health impacts from various forms of pollution.

# **NEBRASKA**

Educational Service Unit #13 (\$25,000)
Penny Businga, 4215 Avenue 1, Scottsbluff, NE 69361

## **Exemplary Teacher Training**

The Exemplary Teacher Training project improves environmental education teaching skills for teachers of kindergarten through eighth grade by the development and implementation of an environmental education curriculum and teacher resource guide unique to western Nebraska. Teaching skills are enhanced by training lead teachers and through the dissemination workshops at which the guide will be available in both printed and electronic (Internet) form. The target audience is 500 teachers and 6,200 students within 20 school districts throughout western Nebraska.

Lincoln Children's Museum (\$4,825) Lindy Bull, 121 S. 13th St., Lincoln Square, Lincoln, NE 68508

#### Water Resources Exhibit & Workshop

Lincoln Children's Museum Water Resources Exhibit & Workshop increases public understanding of urban and rural water sources and the impact of human activities as they relate to the quality and



quantity of these sources. The target audience includes preschool and elementary-age children and their families. An interactive exhibit allows children and their families to explore the sources of community and rural water supples. Workshops are being conducted for the general public using groundwater models.

Nebraska Association of Resources Districts (\$15,000) Craig Gottschalk, 601 S. 12th St., Suite 201, Lincoln, NE 68508

#### 1996 National Envirothon Competition

The 1996 National Envirothon Competition enhances student and teacher interest and participation in environmental education. The project increases state participation from 30 to 40 states, Canadian participation from one to four provinces, and participation from three states of Mexico. Envirothon stimulates accelerated growth of the Nebraska state environmental education program.

Nebraska State 4-H Camp (\$5,360) Bernie Lorkovic, P. O. Box 87, Halsey, NE 69142

# The NatureLink Family Outdoor Education Weekend

The NatureLink Family Outdoor Education Weekend is a family-oriented outdoor environmental education program designed to link people to nature and the environment and in doing so, helps to educate the public to appreciate and conserve natural resources. The target audience is approximately 100 people from urban and suburban families who spend a weekend to incorporate hands-on experiential environmental education activities.

Prairie Plains Resource Institute (\$5,000) William S. Whitney, 1307 S. Street, Aurora, NE 68818-2126

## Summer Orientation About Rivers (S.O.A.R.)

Summer Orientation About Rivers (S.O.A.R.) is a two-week day camp for 120 students from grades three through six. The primary purpose is exposing elementary students to watershed concepts, biodiversity, and ecological relationships. Concentration will be on aquatic and terrestrial aspects of the Platte River ecosystem. A secondary purpose is the use of classroom teachers which will result in a teacher training program.

#### **NEVADA**

Clark County School District (\$15,165)
Carol Tipton, 2832 East Flamingo Road, Las Vegas, NV 89121

Improving Teaching in K-5 Environmental Sciences: Field-based Experience with Environmental Scientists for Elementary Teachers and Follow-up Development of Model Instructional Guides With assistance from this grant, a model is being developed for enhancing training for teaching elementary school-level environmental science using the district's Whitney Mesa Preserve and the Bureau of Land Management's Red Rock Canyon. Scientists from the University of Nevada, Las Vegas, Desert Science Institute, and Southern Nevada Water Authority are collaborating with 24 teachers to produce a field-based instructional guide which will be used to spread the program in subsequent years throughout the school district.

Shoshone-Paiute Tribe (\$5,000) Walden Townsend, P.O. Box 219, Owyhee, NV 89832

One-Week Workshop for Junior High Students from Owyhee Combined Schools to Survey Solid Waste Practices and to Identify and Make Recommendations of Alternatives to the Tribal Council The Shoshone-Paiute Tribe is conducting a one-week workshop for junior high school students at Duck Valley Reservation, which is led by tribal members enrolled at Boise State University. During the workshop, students survey solid waste generation and disposal on the reservation, identify reduction strategies, and deliver a formal report to the Tribal Council.

Washoe County School District (\$5,000) Stacey Endres, 425 East 9th Street, Reno, NV 89520

Teacher Training in Interdisciplinary Great Basin Curriculum and Outdoor Classroom Activities
The Washoe County School District is providing a three-day outdoor environmental education
experience at Great Basin for 180 sixth-grade students. The project trains 10 to15 teachers to use the
Great Basin Interdisciplinary Curriculum. After receiving training, they can lead 25 high school students
in a two-day outdoor education training field trip. Ultimately, the high school students will serve as
mentors to the elementary students for their three-day program.

## **NEW HAMPSHIRE**

Granite State Association of the Future Farmers of America (\$4,313) Richard L. Barker, c/o NH Dept. of Education, 101 Pleasant Street, Concord, NH 03301

# Teacher Education in Integrated Pest Management and Pesticides Application

The Teacher Education in Integrated Pest Management and Pesticides Application project is educating environmental, agricultural, and natural resources high school teachers about integrated pest management (IPM) and pesticides in their environment. The program features an initial workshop for 30 teachers, demonstrates how to integrate instructional materials distributed during the workshop into their school curriculum, and provides on-site, follow-up visits to provide further information and instruction and to gauge additional teacher and student needs.

New Hampshire Association of Conservation Districts (\$5,000) Dick Obyc, P.O. Box 2042, Concord, NH 03302-2042

#### **New Hampshire Envirothon**

The New Hampshire Envirothon is a growing national environmental education program aimed at public and private high school students and their teachers. The program for our future decision makers is designed to improve environmental awareness and appreciation for wise management and protection of natural resources. A training workshop conducted in the spring provides students and teachers an opportunity for hands-on learning through research and discussion and evaluation of natural resource issues. Students then participate in a statewide competition in a national Envirothon.

# **NEW JERSEY**

Camp Vacamas (\$5,000) Michael H. Friedman, 256 Macopin Road, West Milford, NJ 07480

#### The Teachers Utilizing Natural Environments Program (TUNE)

The Teachers Utilizing Natural Environments Program (TUNE) will train 15 teachers and provide 100 students from elementary schools in Paterson to use the camp's outdoor facility for hands-on

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environmental learning experiences. TUNE will provide inner-city educators and students with the knowledge and opportunity to explore the environment and acquire the thinking skills needed to solve problems. The teacher workshops will be followed by a practical teaching weekend during which the educator-participants will teach the environmental lessons to students from their schools. The resulting In-TUNE With Nature manual will combine teaching materials and participants suggestions.

Citizen Policy and Education Fund of New Jersey (\$5,000)
Ralph Scott, 400 Main Street, Hackensack, NJ 07601

## The Paterson Childhood Lead Poisoning Train-The-Trainer Project

The Paterson Childhood Lead Poisoning Prevention Train-The-Trainer Project is training 60 staff members from organizations in Paterson to teach their constituents about childhood lead poisoning and its prevention and enhance efforts to teach family members about local lead poisoning regulations. It is one of the first to target Paterson's Arabic population. This program will bring in as partners key organizations, agencies, and institutions that have strong relationships with low-income families and have the capacity to interact directly with them. The goal is to educate and encourage compliance with local laws requiring lead inspection and remediation in residential properties prior to re-rental or sale.

Hackensack Meadowlands Development Corporation (\$4,870) Anne Galli, Two DeKorte Park Plaza, Lyndhurst, NJ 07071-3707

#### The New Jersey Critical Environmental Issues Seminar

The New Jersey Critical Environmental Issues Seminar is a two-week graduate level course for formal and nonformal educators of sixth through twelfth grades which consists of presentations, field trips, hands-on workshops, laboratory testing, and role-plays. The programming is designed to improve the environmental literacy and decision making skills of teachers and parents and encourage them to disseminate this knowledge and these skills to their constituencies. The focus of this seminar will be to pilot an environmental health component with a concentration on community-based issues and a newly strengthened section on wetlands.

The Wetlands Institute (\$22,039)
Karen Bage, 1075 Stone Harbor Boulevard, Stone Harbor, NJ 08247-1424

#### Facilitator and Teacher Training Workshops: WOW!: The Wonders of Wetlands

WOW!: The Wonders of Wetlands workshops are training 120 educators throughout New Jersey. The project provides additional training for 40 Project WET (Water Education for Teachers) facilitators and 80 educators in three workshops in WOW!, a recently developed Project WET curriculum. WOW!, designed to improve environmental education skills for formal and nonformal educators, provides hands-on activities emphasizing problem solving, investigative learning, and critical thinking about wetlands. Additional workshops on freshwater and saltwater wetlands will teach participants environmental education techniques and ways to incorporate wetlands curricular activities into their programs. In addition, within one year 800 additional educators should be reached as trained facilitators conduct additional workshops.

# **NEW MEXICO**

Regents of New Mexico State University, Waste Management Education & Research Consortium (\$144,981)

Dr. Larryl K. Matthews, Engineering Research Center, Office of Sponsored Programs, Box 30001, Dept. 3699, Las Cruces, NM 88003-8001

New Mexico/Mexico Needs Assessment and Environmental Teacher Training Program

The Waste-Management Education & Research Consortium at New Mexico State University project will conduct workshops to expand the environmental teaching capabilities of high school science and math teachers in New Mexico and the Mexican border city of Ciudad Juarez, Chihuahua. The New

Mexico/Mexico Needs Assessment and Environmental Teacher Training Program ensures that high school environmental curricula reflect state-of-the art environmental education by training border area teachers to use existing environmental education resources such as New Mexico State Department of Education Benchmarks/Standards and National Consortium for Environmental Education and Training guidelines. A needs assessment is being conducted prior to the workshops to ensure their effectiveness. The more than 150 teachers who are being trained ultimately hope to reach an audience of more than 100,000 Mexican students and 82,000 high school students from New Mexico, including Native American and Hispanic students.

Las Cruces Public Schools (\$4,500)

Marcy Oxford, 505 South Main Street, Las Cruces, NM 88001

#### **Outdoor Classroom**

This project involves Hillside Elementary students in kindergarten through fifth grade who are predominantly Hispanic in pilot testing hands-on environmental curriculum at an outdoor classroom located on 10 acres of trust lands donated by the New Mexico Land Office. The students will focus on plant and animal study, archaeology, and geology.

Pueblo of Pojoaque (\$24,920) Ron Martinez, Route 11, Box 208, Santa Fe, NM 87501

# DOER (Developing Ownership of Environmental Resources) Program

The DOER (Developing Ownership of Environmental Resources) Program involves 150 students in sixth through eighth grades in hands-on activities, a participatory lecture series, and on-site field trips relating to water issues.

Young Women's Christian Association (\$25,000)

Diane Mourning Brown, 7201 Paseo del Norte NE, Albuquerque, NM 87113

#### YWCA Kids and the Environment

More than 5,000 children and 600 adults participate in the YWCA Kids and the Environment program located in three economically and culturally diverse communities in Texas, Oklahoma, and Louisiana. Activities relate to pollution and source reduction, wildlife statutes, geology, and natural resource management and erosion control.

## **NEW YORK**

Beaver Lake Nature Center (\$4,295)
Bruce W. Stebbins, 8477 East Mud Lake Road, Baldwinsville, NY 13027

# **Beaver Lake Nature Center Educational Activity Guide**

Funding will be used to develop the Beaver Lake Nature Center Educational Activity Guide and its related teacher workshop and to compile an environmental education reference library. The activity guide and workshop will provide teachers with activities before, during, and following visits to the 596-acre natural area that receives 400 class visits each year. The guide and workshop will increase the abilities of participating teachers to take fuller advantage of the center's diverse collection of natural resources. The reference library will provide needed environmental education resources for the local educational community.



Boys Harbor, Inc. (\$5,000)

Dr. Robert Wallace, 1 East 104th Street, Room 578, New York, NY 10029

#### **Environmental Education Workshops For Parents**

The Environmental Education Workshops For Parents project is reaching out to the parents of the children in its East and Central Harlem community to help them learn more about their children as they discover the ways in which their lives are intertwined with the environment. This program will consist of four workshops to teach parents how their children are acquiring math, reading, and writing skills in an integrated environmental science curriculum, how urban ecology impacts their lives, the ways in which city dwellers can change their environment, and how their children use technology in the classroom. The program seeks to enlist adults in their children's efforts to become citizens who take an active role in making well-informed environmental choices.

# Brooklyn Center For The Urban Environment (\$5,000) John C. Muir, The Tennis House, Prospect Park, Brooklyn, NY 11215-9992

# Coming to Grips With Toxics and Water Quality on the Gowanus Canal

Coming to Grips With Toxics and Water Quality on the Gowanus Canal is bringing together the Brooklyn Center for the Urban Environment (BCUE) with the New York City Community School District 15 and the Gowanus Canal Community Development Corporation to improve teaching skills and instruction. The project is focusing on environmental issues in Gowanus, an old industrialized and residential district in New York City. Impacted by pollution hazards resulting from its use for sewage and industrial waste, the Gowanus Canal will be central to BCUE's program. Teacher workshops, demonstration field-study programs, and a teacher resource package will target 25 teachers in Gowanus schools and 360 of their pupils. In addition, BCUE will reach out to the parents and local community residents through a variety of media.

# Cayuga Nature Center (\$4,995)

Janet E. Hawkes, 1420 Taughannock Boulevard, Ithaca, NY 14850

#### **Water Quality Monitoring Network & Teacher**

To preserve water quality in the Finger Lakes region by preventing nonpoint source pollution, the Water Quality Monitoring Network & Teacher project targets educators and their students in fourth through twelfth grades to raise their awareness regarding water pollution. Educators who have not previously participated in water quality monitoring will be trained to test the chemical, physical, and biological parameters of water quality. The program also will provide the training and a supportive network for central New York State teachers who are participating in water monitoring projects. It will establish a database of information gathered by new and ongoing class projects.

# Columbus Elementary School (\$5,000) Patricia Wood, 275 Washington Avenue, New Rochelle, NY 10801

## Investigating the Impact of Urban Development on Long Island Sound

This project is targeting second and fifth grade teachers and students in its multi-cultural urban population in a project to enable them to accept stewardship of Long Island Sound. Participants will receive training, develop units in English and Spanish, explore the impact of urban development on Long Island Sound, and develop bilingual, interactive environmental education exhibits and multimedia slide shows about Long Island Sound. Materials developed will be available to other New Rochelle schools. The project involves a partnership with the Norwalk Maritime Center in Connecticut.

# Dutchess Community College (\$19,800) Dr. Arthur H. Pritchad, 53 Pendell Road, Poughkeepsie, NY 12601

### The Dutchess Academy for Environmental Studies

The Dutchess Academy for Environmental Studies is an alternative educational program offering a two-year occupational environmental education program for 36 Dutchess County junior and senior high school students. The project is sponsored by the Dutchess Community College and the Dutchess County Board of Cooperative Educational Services (BOCES). After spending mornings at their schools in traditional courses, during the afternoon students will take courses at the community college's Norrie Point Environmental Site. The project will provide an educational alternative for students interested in the environment but not stimulated by traditional high school programs. The program will also provide in-service summer training and follow-up support to Dutchess County science teachers interested in infusing environmental monitoring and data collection and entry into their programs.

Homer Central School (\$4,901)
Thaddeus Schug, 80 South West Street, Homer, NY 13077

# **Homer Environmental Science Program**

The Homer Environmental Science Program in rural New York is targeting teachers of secondary biology, chemistry, and general science in schools which have or want to start aquatic study programs. The project is encouraging development of student-driven, open-ended laboratory studies. Four teacher workshops will train teachers in biological and chemical testing, provide instruction on the building of aquatic sampling devices and computer training, and build partnerships with regional districts for experimental aquatic studies through networking and data analysis.

Madison County Soil and Water Conservation District (SWCD) (\$5,000) Michael Johnston, PO Box 189, Morrisville, NY 13408

#### The Madison County Community Water Resources Education Program

The Madison County Community Water Resources Education Program is enabling a local government unit to initiate an educational program designed to conserve natural resources and prevent nonpoint source water pollution. The program will provide participating educators with resources to study a local water issue. The program enables teachers to either avail themselves of educational support services from the county's Soil and Water Conservation District in the form of classroom visits from staff or receive support to design their own programs to study a local water resource with students.

Phipps Community Development Corporation (\$5,000) Andrew Hyde, 43 West 23rd Street, New York, NY 10010

#### The Beacon Environmental Careers Program (BECP)

The Beacon Environmental Careers Program is a year-long initiative to provide teenagers from the South Bronx with an understanding of environmental careers and insight into the environmental conditions of their immediate community, West Farms, and the larger environmental issues of New York City. The project is incorporating pollution prevention initiatives, will educate high school students about careers as environmental professionals, and help students to understand the many-faceted environmental problems and solutions faced in the real world. Community service and outreach, career mentors, laboratory and observational activities, and workshops and meetings with professionals in the field will give young people background and experience with environmental issues and solutions.



# Schenectady County Community College (\$4,979) Edward S. Baker, 78 Washington Avenue, Schenectady, NY 12305

#### **Environmental Science Teacher In-Service Institute**

Schenectady County Community College will work with Capital Region Maritime Center and the Capital Region Board of Cooperative Educational Services (BOCES) to produce a three-week Environmental Science Teacher In-Service Institute for regional educators of sixth through twelfth grades. The program will be fieldwork-based to assist teachers in development of classroom activities from existing environmental science curricula which pertain to local watershed issues and which are consistent with curricula approved by the state Board of Regents. The program will assist teachers in evaluating sites for field trips to develop students critical thinking skills and host a networking conference to enable participants to share their successes in integrating local watershed issues into environmental science curricula.

Schoharie County School Soil and Water Conservation District (\$4,930) Brenda Weaver, 41 S. Grand Street, Cobleskill, NY 12043

#### **Septic Systems and Nonpoint Source Pollution Education Program**

Students and teachers in fourth through sixth grades in six county school districts are the primary focus of the Septic Systems and Nonpoint Source Pollution Education Program. The goal of the program is educating county residents about the significance of septic systems in nonpoint source water pollution. Objectives are to help residents understand the nature of the karst topography of the region, home septic systems and their connection with water quality protection, and principles of water conservation. The program will combine school programs with educational outreach to community groups and local government, encouraging all participants to take action to prevent drinking water contamination through septic system care.

Shoreham-Wading River Central School District (\$4,986) Dr. Margaret Conover, Route 25A, Shoreham, NY 11786

#### Learning To Live In The Long Island Pine Barrens Science Museum

The Learning To Live In The Long Island Pine Barrens Science Museum project is enabling educators of fourth through seventh grades to use educational materials concerning the Long Island Pine Barrens, an ecosystem which lies atop a glacial aquifer upon which the drinking water of Long Island is dependent. Teachers are becoming familiar with existing curricula, being provided with opportunities to develop field skills, and are supported in efforts to create a school ground field study site. A program of workshops, field trips, and in-school consultations with a naturalist will enable participants to conduct a week-long interdisciplinary pine barrens unit for their classes. An understanding of the roles played by development, fire, and water in the pine barrens will enable students to make more informed decisions about this ecosystem.

St. Regis Mohawk Tribe (\$5,000)
Ken Jack, RR1 Box 8A, Community Building, Hogansburg, NY 13655

#### **Indoor Air Quality Awareness Program**

The St. Regis Tribe's Indoor Air Quality Awareness Program is providing oversight in the development and organization of a series of seminars focusing on indoor air quality and especially its presence in homes on the Saint Regis Mohawk Reservation. The seminars will draw on the expertise of environmental professionals. Radon, environmental tobacco smoke, biological contaminants, combustion heating appliances, household products, formaldehyde, pesticides, asbestos, and lead will be the topics of the seminar. Health effects will be a focus, as well as low cost technology, prevention, and control methods. Available government and institutional resources will be identified and the ability to assist individuals with problems will be explored. The goal is for seminar participants to acquire the skills to resolve indoor air quality problems on their own and understand what actions others can take to assist them.

# Theodore Roosevelt Sanctuary (\$4,955) Mary E. Richard, 134 Cove Road, Oyster Bay, NY 11771

#### **Teacher Education Workshops and Environmental Teaching Kits**

A combination of teacher education workshops and environmental teaching kits will be offered to educators on New York's Long Island enabling them to bring important local environmental issues to their students. Workshops and kits will include such topics as: pine barrens and groundwater, migratory birds, solid waste, Long Island Sound, and endangered species. Each of these topics has specific critical importance for Long Island residents. The workshops will show educators how to incorporate materials into classroom curricula; the kits will provide all materials needed to involve students in these areas of concern.

# **NORTH CAROLINA**

East Carolina University (\$25,750)

Dr. Katherine Warsco, School of Environmental Sciences, East Carolina University, Greenville, NC 27858-4353

Designing For Good Indoor Air Quality: Student Design Competition as a Teaching Tool

The East Carolina University project assists postsecondary instructors and students of design to further their knowledge of indoor air quality issues and apply this knowledge to develop innovative solutions for radon-free, nontoxic, and allergy-free interiors. Designing for Good Indoor Air Quality: Student Design Competition as a Teaching Tool is accomplishing this by developing, disseminating, and implementing materials of design to increase student and instructor knowledge of indoor air quality issues. The project sponsors a student competition that is challenging students to put their knowledge of indoor air quality issues to effective use. The project has a broad target audience--560 faculty and 30,000 students in two and four-year university interior design programs in the U.S. The coastal southeast region is the primary focus because of the region's large population of low income elderly people living in older homes that tend to have indoor air quality problems. The project ultimately is promoting a healthier living environment for individuals living in that region and can be duplicated elsewhere.

#### Pembroke State University (\$4,994)

Dr. Thomas Ross, One University Drive, Pembroke, NC 28372-1510

#### Outdoor Learning Classroom: Environmental Workshop

The Outdoor Learning Classroom: Environmental Workshop is focusing upon improving environmental education skills for science teachers of kindergarten through twelfth grade. An outdoor learning classroom will be created and workshops will assist teachers in using the facility. The outdoor classroom will give students a wide variety of hands-on environmental learning experiences.

University of North Carolina at Wilmington (\$22,680)

Pamela B. Whitlock, 601 S. College Rd., Wilmington, NC 28403

#### **Project US-University Schools**

Project US-University Schools is a teacher training project updating teachers on environmental issues that affect southeast North Carolina, particularly water, air, and soil pollution. A component of the project is to train a cadre of teachers who will continue to train teachers in their districts. An awareness conference for 100 middle school teachers will lead to an intensive summer institute for 20 lead teachers.



# Winston-Salem/Forsyth County Schools/Sedge Garden Elementary School (\$4,900) Donald L. Martin, Jr., P.O. Box 2513, Winston-Salem, NC 27102-2513

#### Hands-on and Minds-on Environmental Education

The Hands-on and Minds-on Environmental Education project is providing teachers and students with training and instruction which will improve environmental education and learning in the classroom. Improving skills for teachers, faculty, and nonformal educators will be achieved through workshops. Members of the general public will be reached through a community-based organization. The project will result in an increased awareness of the impact of construction and the community's traditional agricultural activities on the environment.

### **NORTH DAKOTA**

North Dakota Council on the Arts (\$5,000)

Troyd Geist, 4118 E. Broadway, Ste 70, Bismarck, ND 58501-4086

#### North Dakota Council on the Arts

This project demonstrates the interplay between traditional and scientific environmental knowledge, practices, and issues. It increases public awareness of environmental issues as they relate to cultural preservation.

#### University of North Dakota (\$13,684)

Dr. Sally Eckert-Tilotta, Grand Forks County, Grand Forks, ND 58202

## **Environmental Workshop for Science Teachers**

This project offers an environmental workshop for junior and senior high school science teachers. It also enables science teachers to explore the degradation of water. It includes teachers of biological and physical science and involves Native American and state schools in North Dakota.

#### OHIO

Rivers Unlimited Mill Creek Restoration Project (\$35,000) Robin Corathers, Suite 610, Two Centennial Plaza, 805 Central Avenue, Cincinnati, OH 45202

### **Exploring the Mill Creek Valley (Phase II)**

The Rivers Unlimited Mill Creek Restoration project develops environmental education methods and materials for use in middle and senior high schools and communities near the severely polluted Mill Creek ecosystem in southwest Ohio. Exploring the Mill Creek Valley (Phase II) is working to motivate the communities to improve the quality of the creek by creating computer simulations of healthy landscapes and incorporating this information into interactive/multimedia materials and public exhibits. The target audience is 104 teachers and adult volunteers and 800 participating high school students attending 15 schools in the Mill Creek area.

Cuyahoga Valley Environmental Education Center (\$4,525) Deb Yandala, Director, P.O. Box 222, Peninsula, OH 44264

#### All the Rivers Run

The All the Rivers Run project consists of teacher education workshops for 300 elementary and middle school teachers in northeastern Ohio on ecosystem protection, biodiversity, and water quality issues in the Cuyahoga River watershed. The workshops are based on the center's newly developed inquiry-based curriculum. Workshops prepare teachers to bring their students to the Cuyahoga Valley Environmental Education Center for participation in a four-day residential environmental education program.

Glendale Habitat Discovery Garden, Inc. (\$4,786) Selene Loomis, 400 West Glendale Avenue, Bedford, OH 44146-3299

### **Glendale Habitat Discovery Garden**

Participants in the Glendale Habitat Discovery Garden project are working with Glendale Primary School to improve and expand the land laboratory that currently exists on the school grounds. The organization will also work with the Bedford City school district to integrate environmental education materials into the school's curriculum. The focus of Glendale's hands-on education program, which targets staff, PTA members, and students, is on biodiversity and sustainability.

## University of Akron (\$23,954)

Dr. Helen Qammar, Department of Chemical and Civil Engineering University Research Center, Akron, OH 44325-2102

#### **Vertical Integration of Environmental Design for Engineering Students**

Vertical Integration of Environmental Design for Engineering Students is a new environmental design curriculum being developed to engage engineering students in practical field experience. The curriculum presents students with a realistic case study about a small urban company in northeast Ohio and teaches them how to develop a pollution prevention and waste remediation design for the company. It is designed so that students can continue their work on the curriculum as they progress through their undergraduate degree program. The university hopes to promote environmental careers through the program and will share the course framework with other schools.

University of Cincinnati, School of Planning/DAAP (\$5,000)
Dr. Jan Fritz, Professor, Box 210073, Cincinnati, OH 45221-0073

### **Environmental Justice Workshops**

University of Cincinnati's School of Planning is integrating the topic of environmental justice throughout workshops on habitat, waste, environmental health, and water. Workshops target elementary teachers, camp counselors, and youth program directors who work with inner-city children in Cincinnati. In addition to highlighting a multitude of environmental education resources, the workshops require participants to critically examine local environmental justice issues.

#### **OKLAHOMA**

East Canadian County Conservation District (\$4,201) Tamra Mach, 1625 E. Highway 66, El Reno, OK 73036

#### **Environmental Education for a New Generation**

Through Resources Days and Wildlife Education Days, 1,180 students in kindergarten through sixth grade are learning about local conservation issues through hands-on activities and an investigative approach.

Jasmine Moran Children's Museum (\$4,995) Tommy Mills, P.O. Box 1828, Seminole, OK 74868

## **Aquatic Education Exhibit**

The Aquatic Education Exhibit is being refurbished and further developed to teach about water pollution problems using a hands-on scientific method. Large tanks filled with water, fish, and plants show the effect of a polluted environment and how polluted water can be turned into clean water. Forty-thousand students are expected to visit annually.



Oklahoma State University, Division of Agriculture (\$5,000) C.B. Browning, 139 Agriculture Hall, Stillwater, OK 74078

ECO-Camp: Environmental Education and Conflict Resolution Camp for Teen Leaders
ECO-Camps give participants from different backgrounds a balanced view of factors underlying
environmental controversies and provide a set of conflict resolution skills to aid in addressing issues
causing conflict. The project builds capacity at the local level for environmental education by introducing
teen leaders to environmental concerns and building conflict resolution skills.

#### **OREGON**

Central Oregon Environmental Center (\$5,000)
Peter Geiser, 16 NW Kansas Street, Bend, OR 97701

## Journey for the Planet - The Kids Ecoteam Program

This project educates 950 sixth-grade students in the Bend-LaPine School District about sustainable lifestyle practices. A step-by-step workbook, *Journey for the Planet - The Kids Ecoteam Program*, is provided to the children to learn how to change their behaviors and influence others to become more eco-wise consumers. In-service training is provided to the teachers. The project promotes partnerships with community and public organizations and empowers the students to make informed and responsible environmental decisions affecting pollution prevention.

City of Gresham - Department of Environmental Services (\$5,000) Amy Cortese, 1550 N.W. Eastman Parkway - Suite 175, Gresham, OR 97030-3830

#### **Naturescaping for Clean Rivers**

The Naturescaping for Clean Rivers program prevents pollution and improves wildlife habitat in a rapidly developing community. It informs, demonstrates, and involves volunteers in native landscaping, restoration, and enhancement of property while reducing reliance on water, fertilizers, pesticides, and energy. The project hosts workshops for 120 local property owners in the Gresham area. These workshops include field trips to demonstration sites and classroom learning about watersheds, the individual's connection to water quality, native plants, and the basic landscape design techniques. Neighborhood leaders are being recruited and trained to participate in demonstration site projects and volunteers are being recruited to assist with planting native vegetation throughout the city.

La Grande School District - La Grande High School (\$13,167)
Dolores Carmichael, 2802 Adams Avenue, La Grande, OR 97850

## Watershed and Forest Health Education Program

Under this grant, the school district is educating 882 high school students in the biological, social, and political issues involved in watershed and forest management using an outdoor laboratory setting. Aquatic survey data from Sheep Creek and pre-reforestation data from the Rebarrow Experimental Forest is being gathered and compiled by the trained teams of students. Data will be digitized and Geographic Information System (GIS) analysis will be conducted, then restoration and enhancement projects will be written and implemented for the watershed and forest study sites.

Marcola School District 79J (\$4,997)

Maurice Thorne, 38300 Wendling Road, Marcola, OR 97454

## **Preserving a High Quality Watershed**

This project: expands the existing water quality monitoring program to include the high school students and other Marcola residents; propagates native plants in the school-owned arboretum; conducts cleanup and restoration projects and riparian surveys along the Mohawk River and Cartwright Creek; and, leads to the exchange of information with other school districts. These activities are being made possible by

workshops with teachers, students, and residents in collaboration with McKenzie Watershed Council partner organizations and the Global Rivers Environmental Education Network. The information, data, and experiences gathered in the water quality monitoring program and workshops are being used as tools to address drinking water and groundwater protection, aquatic and upland habitat protection, and nonpoint source pollution in rural areas.

National Wildlife Federation (\$19,085)
Beth Stout, 921 S.W. Morrison Suite 512, Portland, OR 97205

## **Schoolyard Wildlife Habitat**

This project creates schoolyard wildlife habitats as outdoor classrooms at three elementary schools and one middle school in the Portland area, reaching approximately 400 students. Twelve to 16 teachers and 25 parents are trained to integrate use of the habitats into the overall school curriculum. The Federation is writing and distributing a workbook for teachers and schools on how to create schoolyard wildlife habitats in this region.

Oregon 4-H Foundation (\$5,000) Virginia Thompson, 5390 4-H Road NW, Salem, OR 97304

#### 4-H EM\*Power Waste Management Curriculum

The 4-H EM\*Power Program (new 4-H Environmental Stewardship Waste Management curriculum) in Oregon is being implemented through workshops to build state-wide capacity to educate youth in waste management. These workshops are for teachers and other educators from both formal and nonformal programs. Under the leadership of adults trained in EM\*Power workshops, youth in sixth through ninth grades are identifying waste management concerns; learning how waste management concerns become issues, and becoming empowered to take action on waste management issues in their community.

Oregon Groundwater Association (\$4,900) Nancy Sippel, 4130 SW 117th, #465, Beaverton, OR 97005

#### Sharing the Wealth: Groundwater, Oregon's Buried Treasure

This project improves environmental education skills for teachers and students through workshops providing the basis for each school (seven selected schools around the state) to develop a unique groundwater strategy as a community outreach component. Students have a unique opportunity to create, develop, and manage a project that challenges their critical thinking, problem solving, communication, and research skills. The target audiences for this project include: the middle through high school students and teachers from the seven schools throughout Oregon who receive buried treasure chests and participate in the workshop training, and the general public in the communities of the participating schools who gain a better understanding of the prevention of groundwater contamination.

## **PENNSYLVANIA**

The Academy of Natural Sciences (\$22,625) Kathleen Fadigan, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103

## The George Washington Carver Summer Scholars Program

Top participants at Philadelphia's George Washington Carver Science Fair will be recruited to participate in a summer scholars program. The Carver Fair is the nation's largest and most comprehensive urban science fair. Summer scholars will meet with Academy researchers, conduct research, and learn about environmental issues and careers.



# Allentown School District (\$4,325) Jane Dotter, 31 South Penn Street, Allentown, PA 18101

#### Training Elementary Teachers in Outdoor Environmental Workshops

A minority school in downtown Allentown will integrate environmental education into the school curriculum for math, science, and English by training first through fourth grade teachers in outdoor environmental workshop settings.

Fairmont Park Historic Preservation Trust (\$5,000)

Amy Freitag, 1616 Walnut Street, Suite 2310, Philadelphia, PA 19103

# Community-based Environmental Education Program to Restore Significant Portions of Fairmont Park Landscape

The project will reach out to an ethnically and economically mixed community of 15,000 residents in the Sedgeley Park Area of Philadelphia. The goal of the program is to increase community care, use, and appreciation of the park as a community-based ecosystem and sustain regeneration of diverse native plant and animal species.

# School District of Philadelphia, (\$2,050) Lauren Giddings, 21st St. South of the Parkway, Room 204, Philadelphia, PA 19103

## **Cleveland School Ecology Thematic Plan**

This project will enable North Philadelphia's Grover Cleveland High School's 150 students to have the resources, materials, literature, and site visits to put into action their Ecology Thematic Plan in the 1996 to 1997 school year.

## Pittsburgh Voyager (\$5,000) Beth O'Toole, 2000 Mary Street, Pittsburgh, PA 15203

#### A River Based Learning Center

This project will create a unique environmental science classroom program aboard a boat turned science laboratory. The project includes a field study to increase knowledge of freshwater ecology and river ecosystems, enhance analytical and problem solving skills, and create environmental consciousness and responsibility.

# Pocono Mountains Chamber of Commerce (\$4,800) James H. Catanach, 556 Main Street, Stroudsburg, PA 18360

## Waste Reduction/Recycling Program for Small Businesses

This innovative recycling and waste reduction program will provide the necessary audit manuals and educate small business personnel on how to conduct waste reduction audits.

# Wildlands Conservancy (\$4,996) Rhonda Dietz, 3701 Orchid Place, Emmaus, PA 18049

#### Little Lehigh Watershed Curriculum Improvement Project

The Wildlands Conservancy teacher training project will expand knowledge and use of the Conservancy's well-known and highly regarded Little Lehigh Watershed curriculum.

## Wissahickon Valley Watershed Association (\$2,364) Judith Gratz, 12 Morris Road, Ambler, PA 19002

#### **Monitoring Water Quality of the Wissahickon Creek**

Teachers and high school students in the Environmental Club in North Penn High School will investigate the Wissahickon Creek and conduct monthly water monitoring and study.

# Zoological Society of Philadelphia (\$4,994) Ronald Fricke, Jr., 3400 West Girard Avenue, Philadelphia, PA 19104-1196

### **Junior Zoo Apprentice Program**

Teaming up with the YMCA of Philadelphia and vicinity Black Achievers Program, the Philadelphia Zoo is beginning a Junior Zoo Apprentice Program. Urban youth will gain job skills and self-esteem, and they will begin to understand more about conservation, biology, and environmental careers.

## **PUERTO RICO**

University of Puerto Rico, Humacao University College (\$49,841) Alida Ortiz, UPR Sea Grant Program, Humacao, PR 00792

# Solid Wastes and Marine Debris: From Awareness to Action In-Service Training Workshop for Teachers in Puerto Rico

The University of Puerto Rico--Humacao University College project takes the problem of marine debris and solid waste from awareness to action. Solid Wastes and Marine Debris: From Awareness to Action In-Service Training Workshop for Teachers in Puerto Rico consists of a one-year, hands-on field workshop project that: (1) infuses the solid waste disposal problem as an environmental education component throughout the formal curriculum in Puerto Rico's school system, (2) trains 60 teachers with hands-on field experience in the scientific, social, and economic aspects of the solid waste problem, and (3) promotes the change of attitudes and behavior in students to lead to a reduction in the amount of solid waste found on Puerto Rican beaches and roads. The project reaches 60 teachers, but impacts more than 10,000 students.

## Puerto Rico Agricultural Service (PRAES) (\$24,500) Nilda Gonzales, University of Puerto Rico, P.O. Box 5000, College Station, Mayaguez, PR 00681-5000

## Superheroes of The 4-H Environmental Project

The Superheroes of The 4-H Environmental Project is targeting students in seven elementary schools in northeastern Puerto Rico's Canovanas, Loiza and Rio Grande communities. During the program, Puerto Rico Agricultural Service (PRAES) professionals and youth leaders are being trained and developing a curriculum; the youth leaders will implement the in-school activities. During the final phase, students and leaders will evaluate situations and make decisions (watch, think, and preserve) related to the environment in their locale. The program goal is develop a group of future decision makers who will make environmentally sound evaluations to protect and preserve natural resources.

## **RHODE ISLAND**

The Providence Plan, Providence (\$5,000)

Jane Sherman, The Hanley Building, 56 Pine Street, Providence, RI 02903

#### Woonasquatucket River Environmental Education Program

Woonasquatucket River Environmental Education Program for educators and residents is teaching area residents about the benefits of the river and its wildlife habitats and enabling them to educate others about the subject. Joined by the Community Outreach Coordinator of the Providence Plan, the Rhode

Island Audubon Society will work with teachers in elementary and middle schools along the river corridor, train a staff of five from the organization Progresso Latino, and train adults from communities along the river. The organization will select existing environmental education materials, translate them into Spanish, and use them for the training program. Once trainers have been trained, ongoing outreach programs to additional area residents will be conducted.

Rhode Island Zoological Society, Roger Williams Park Zoo (\$4,997) Dr. Anne Savage, 1000 Elmwood Avenue, Providence, RI 02907

## Water of Our World: Monitoring Ecosystems in Southern New England and Colombia

Water of Our World: Monitoring Ecosystems in Southern New England and Colombia, South America is expanding on an existing project in which teachers and students from Rhode Island and Colombia learn about water quality, perform water quality monitoring, and share information between the two countries. This year, seven teachers with nearly 240 sixth through tenth grade students from Rhode Island and three teachers with 120 students from Colombia will participate in this program by monitoring and working to preserve a river near each school.

University of Rhode Island, Cooperative Extension Education Center (\$4,959) June Kinigstein, East Alumni Avenue, Kingston, RI 02881-0804

#### **School Yard Gardens Project**

This project will provide hands-on training and curriculum materials to enable 20 first through sixth grade teachers to establish and maintain with their students a natural vegetable and herb garden on their school grounds. Project objectives are for children in participating schools to become knowledgeable and skilled in pollution prevention concepts and techniques related to water, soils, and nonpolluting alternatives to pesticides and herbicides.

Southern Rhode Island Conservation District (\$5,000) Charlotte Spang, P.O. Box 1522, Kingston, RI 02881

### Active Watershed Education for the Narrow River and Saugatucket River Watersheds

The Active Watershed Education project is increasing awareness and knowledge about the Narrow River and Saugatucket River watersheds and providing the future stewards of the these watersheds with the skills needed to make informed decisions about local environmental issues. The program will revise and disseminate existing watershed-specific curriculum guides, train 20 upper elementary and middle school teachers in the uses of this curriculum, and assist teachers and their students in assessing local environmental issues and conducting student-driven, community action projects related to these issues.

#### **SOUTH CAROLINA**

Furman University (\$24,900) Kenneth Sargent, 3300 Poinsett Highway, Greenville, SC 29613

#### Paris Mountain Watershed Laboratory

The Paris Mountain Watershed Laboratory project is educating undergraduates for careers in the environmental sciences. The Roper Moutain Science Center will conduct workshops for elementary, middle, and secondary school teachers as part of a watershed dynamics study. Students will be involved in watershed demonstration projects.



York Technical College (\$5,000)

Dr. Edward Duffy, 452 S. Anderson Road., Rock Hill, SC 29703

## **Quality of Life to Quality of Water**

The Quality of Life to Quality of Water project is promoting environmental careers and developing new environmental education programs. The student newspaper, campus promotions, faculty advisory meetings, and regular classes are being used to communicate the opportunities in environmental careers.

### **SOUTH DAKOTA**

South Dakota School of Mines and Technology (\$18,082)
Dr. Jon J. Kellar, 501 East St. Joseph Street, Rapid City, SD 47701-3995

## **Environmental Summer Camp for Reservation Students**

The Environmental Science and Technology Summer Camp is designed for middle school students on the Pine Ridge Reservation and uses a culturally-sensitive environmental management curriculum. It stimulates middle school students to pursue careers in engineering and science.

South Dakota State University (\$5,000)
Tim Nichols, 156 Ag Hall, Box 2207, Brookings, SD 57007

#### **Environmental Education for Native Americans**

The Environmental Education Camp for Native American High School students in Brookings, South Dakota is stimulating interest in environmental careers. Native Americans are being used as role models in the natural resource sciences. Students are taught sound environmental decision-making practices.

### **TENNESSEE**

Friends of Great Smoky Mountains National Park (\$5,000) Charles Maynard, 134 Court Ave., Sevierville, TN 37862

#### **Correlation of Curriculum to North Carolina Standards**

This project correlates the second, fifth, and seventh grade units of the existing curriculum in Tennessee for kindergarten through eight grade students with the North Carolina State curriculum standards and objectives. These units will educate students to recognize threats to their environment and includes approximately 1,000 participants who are residents of the Cherokee Indian Reservation. The project will make use of the Great Smoky Mountains National Park as a hands-on teaching site.

Tennessee Agricultural Extension Service (\$5,000)

Robert Burns, P.O. Box 1071, Knoxville, TN 37901-1071

## **Animal Waste Management Training**

The Animal Waste Management Training project is presenting a workshop to agricultural extension agents concentrating on the selection of new animal waste management systems and the operation and maintenance of both new and existing systems. The goal is to increase the environmental knowledge of livestock producers so that their waste management systems will meet all environmental regulations and function in an environmentally sustainable manner.



# Tennessee Technological University (\$5,000) Dr. Foydor Shutov, Campus Box 5077, Cookeville, TN 38505

## **Plastics Recycling Workshop for Teachers**

The Plastics Recycling Workshop for Teachers is training a group of teachers about the environmental importance of recycling plastic materials. A unit of instruction for seventh through twelfth grades will be developed and presented during a one-week teachers' workshop.

#### **TEXAS**

Green Classroom (\$67,430) Carla Marshall, 1701 Briar, Austin, TX 78704

## The Green Classroom Community Environmental Learning Center

The Green Classroom, Inc. project forges an environmental education partnership--a Junior/Senior Alliance--between elementary school children and adults in Austin, Texas. The Green Classroom Community Environmental Learning Center includes an environmental resource library to provide a forum for the junior/senior alliance. Both adults and children from the community together use the center to work on environmental issues and exhibits. An existing, well-established environmental curriculum framework is being distributed via workshops, videos, newsletters, and other means to these individuals and to a broader audience that includes the Austin Independent schools and state-wide schools. The project reaches 420 students from a low socioeconomic minority neighborhood (Bouldin Creek), 1,200 households, and 13,000 teachers from the Austin Independent School District and elsewhere in the state.

The Nature Conservancy (\$5,000)
Lisa Williams, P. O. Box 1440, San Antonio, TX 78295

#### The Seeds of Knowledge

1996

A pilot program in two schools is teaching junior high and high school students the value of native plants and how to produce seedlings for habitat restoration. Fifth grade students are participating in tree planting.

Red River Valley Girl Scout Council (\$5,000) Ginger Haan, 2025 NW Loop 286, Paris, TX 75460

#### **Explore the World of Science & Nature at Camp Gambill**

The science and nature camp will offer 100 to 150 youth hands-on activities to increase their knowledge of native ecology and techniques for Trident Prairie restoration and provide an outdoor laboratory for biological, ecological, and cultural studies.

River Basins Institute, Inc. (\$5,000) Gary Endsley, P.O. Box 1104, Atlanta, TX 75551

#### **Environmental Leadership Bridge Program**

The Environmental Leadership Bridge Program links minority and female high school students with environmental science occupations related to the local forest products industry. At a one-week field school, hands-on curricula allow participants to conduct those activities traditionally performed by environmental scientists.



## Texas Natural Resource Conservation Commission (\$24,500) John Janak, 12100 Park 35 Circle, Austin, TX 78753

## Teaching New Drivers about the Impact of Their Vehicles on Air Quality

This project includes developing a video and classroom curriculum for high school drivers' education classes with emphasis on stopping air pollution at one source, the automobile.

Central Independent School District (\$5,000) Susan Sanders, P.O. Box 39, Pollok, TX 75969

## Central Independent School District (CISD) Outdoor Education Facility

An outdoor education and research facility for students in seventh through twelfth grade is being developed to address local environmental issues and problems where clearing of pine forests is a major issue. The site is also being used for teacher in-service training for such hands-on curricula as Project WILD and Project Learning Tree.

Edinburg CISD (\$3,760)
Elizabeth Sanches, P. O. Box 990, Edinburg, TX 78539

## Tracing River Field Trips: How Clean Water Affects Health

Field trips are being provided for fourth grade students to sites on the Rio Grande to monitor water quality, tour the river system and city water treatment plant, and study health issues related to water pollution.

The Fort Worth Audubon Society (\$3,900)
Norma Bartholomew, 4904 Bonnell, Fort Worth, TX 76107

### **Environmental Outreach for Inner-City Youth**

Approximately 200 inner city Hispanic youth from 9 to 15 years old are participating in hands-on environmental awareness activities including recycling, tree planting, and involvement with community service.

Grapevine-Colleyville ISD (\$5,000)
Sherri Steward, 3223 Mustang Drive, Grapevine, TX 76051

#### **Environmental Outreach Program**

This environmental outreach program helps high school students become mentors to students in kindergarten through sixth grade. Presentations are being conducted in a unique outdoor laboratory.

Jesse H. Jones Park Volunteers (\$4,495)
Karen Stockton, 20634 Kenswick Drive, Humble, TX 77338

#### C(onserve), P(reserve): R(enew) for Water Drops

This project involves a series of 24 water awareness programs and hands-on field study trips for 500 students who are 10 to 17 years old. The programs will be presented at the Jesse Jones County Park, a bottomland habitat preserve.



#### UTAH

University of Utah (\$5,000) Christie Probst Lassen, Red Butte Garden and Arboretum, 1471 Federal Way, Salt Lake City, UT 84102

## Workshops Teaching Skills

This Canyon Conservationist Educator Workshop introduces key concepts and environmental field methods into the science curriculum. It provides environmental education and outdoor teaching skills to both teachers and nonformal educators.

# Utah Society of Environmental Education (\$5,000) Tim Brown, 350 South 400 East, Suite G-4, Salt Lake City, UT 84092

## **Trunk Survey Project**

The Trunk Survey project consists of trunks containing environmental education materials and activities to be used by teachers. An inventory is being published to list existing environmental education trunks and how they can be accessed. The trunks are designed according to identified needs and are used to conduct workshops to improve environmental education teaching skills.

### Utah State University (\$21, 849)

Dr. Sharon Ohlhorst, Cache County, Logan, UT 84322

## **Schoolyard Classrooms**

This project involves schoolyard classrooms in northern Utah where master teachers are trained to use the yard for teaching environmental stewardship. The project is a collaboration of seven school districts working to extend their classrooms into nearby areas.

#### **Utah Valley State College (\$4,978)**

James C. Callison, 800 West 1200 South, Orem, UT 84058-5999

#### Career Awareness in Environmental Technology

This five-day, hands-on training program promotes career awareness in environmental technology. The target audience is comprised of high school students of the Ute Indian Tribe.

#### **VERMONT**

## Lyndon State College (\$5,000)

Frances Barhydt, Vermont Energy Education Program, Lyndonville, VT 05851

#### **Energy and the Environment: A Teacher Training Program**

Energy and the Environment: A Teacher Training Program is providing teachers and students in fifth through eight grades with the opportunity to work with the Vermont Energy Education Program (VEEP) "Energy-Scientist-in-the-Classroom." VEEP provides teachers of third through eighth grade with workshops, teaching materials, equipment and supplies, and on-site follow-up to empower them to provide their students a thorough thematic approach to energy efficiency, renewable energy, and the environment.

## Vermont Association of Conservation Districts (\$5,000) Nancy Allen, RD 2, Box 3420, Middlebury, VT 05753

#### Vermont Envirothon

Vermont Envirothon is a growing national environmental education program aimed at public and private high school students and their teachers. The program is designed to improve environmental awareness



and appreciation for wise management and use and protection of natural resources by our future decision makers. A training workshop conducted in the spring provides students and teachers an opportunity for hands-on learning through research, discussion, and evaluation of natural resource issues. Students then participate in a statewide competition with finalists going on to compete in a national Envirothon.

### **VIRGINIA**

Black Diamond Resource Conservation and Development Council (\$5,000) Blaine Delaney, Route 4, Box 49, Lebanon, VA 24266

## **Southwest Virginia Environmental Education Conference**

This project involves training to improve the environmental education skills of kindergarten through twelfth grade teachers within the Black Diamond Resource Conservation, and Development Area. A conference will be held for the six counties in the southwestern tip of Virginia. The conference will raise educator's awareness of the unique area of Appalachia and will build a network of knowledgeable educators on environmental issues.

Close-Up Foundation (\$8,300) Shannon McLeod, 44 Canal Center Plaza, Alexandria, VA 22314

## Citizens and the Government: Partnership for Environment Change

This project will prepare young people for effective and constructive participation in the government by analyzing the need for government control of environmental issues in each community.

The Environmental Education Center (formerly The Miller School of Albermarle) (\$5,000) John Hermsmeier, P.O. Box 2377, Charlottesville, VA 22903-9328

#### **Building a School-Based Habitat Network**

The Environmental Education Center will use grant funds to host teacher workshops focused on school yard habitats, building partnerships to establish habitat areas, and maintain the person-to-person network created by the partnerships through computer networks.

Project Underground Incorporated (\$5,000)

Diane Barnes, P.O. Box 13079, Richmond, VA 23225

#### **Project Underground**

This is a multi-disciplinary environmental education program designed for use by educators of kindergarten through twelfth grade. The activities are designed to increase critical thinking, problem solving, and other process skills within the understanding of underground systems. Teaching about caves and underground resources of local karst areas is important in Appalachia due to the limited groundwater resources vulnerable to contamination.

Reston Environmental Education Foundation (\$5,000) Susan Russell-Robinson, P.O. Box 3421, Reston, VA 22090

## H.O.S.E. - Hands on Solar Energy - Phase II

The funds from this grant will support a training workshop to equip three to four staff members of the Reston Association to present energy conservation and solar energy programs to school and summer camp participants through *Hands on Solar Energy Phase II*.



Virginia Polytechnic Institute and State University (\$5,000)
Dr. William Conger, Dept. of Chemical Engineering, 133 Randolph Hall,
Blacksburg, VA 24061-0249

#### **Green Engineering**

This "green engineering" course will introduce students to careers in environmental fields and promote a greater understanding of the role of technology and its impact on society. Approximately 60 university students of diverse backgrounds will take part. Graduates of this course will become future engineers, scientists, business professionals, and teachers.

#### WASHINGTON

Blue Mountain Demonstration Forest (\$5,000)

Jack Waud, P.O. Box 3143, Port Angeles, WA 98362

#### The Blue Mountain Demonstration Forest

The Blue Mountain Demonstration Forest will be used as the field site for outdoor studies to develop an education program about forest ecosystems and modern forest practices for 25 elementary school teachers and 100 children in the Sequim and Port Angeles School Districts. The project is training teachers to use the curriculum and access the forest.

Chief Leschi School of the Puyallup Tribe (\$5,000) Cherlyn Pijanowski, 5625 52nd Street, E., Puyallup, WA 98371

#### Chief Leschi School of the Puyallup Tribe

This project provides teacher training towards improving lesson plans that promote environmental stewardship for 12 kindergarten through twelfth grade Native and Non-Native teachers and four Native American students at the Chief Leschi Tribal School. Approximately 400 students will benefit from this training. The training focuses on watersheds, wetlands, degradation impacts on anadromous fisheries and shellfish, and environmental justice. The workshops are hands-on training that emphasize problem-solving and critical thinking skills. The training is conducted with a variety of community-based partners.

## **RE Sources (\$13,275)**

Carl Weimer, 1155 N. State #625, Bellingham, WA 98225

#### **Northwest Airnet Air Quality High School Project**

This project adopts New England's successful "Air Net" project, based on air quality and atmospheric science curriculum, for 1,500 high school students in a three-county area in Northwest Washington. Products include a teacher-training workshop, air quality in-class presentations, an end-of-year "Congress" in which students will exchange results and information on what they have learned, and an Internet news group for teachers and students to share results of air quality experiments.

## St. Martin's College (\$5,000)

Huabin Chen, 5300 Pacific Avenue SE, Lacey, WA 98503

### Integrating Telecommunication and Technology into Environmental Education

This project develops a core of teacher leadership to support a rural school district's use of telecommunication and other technology within environmental education at the kindergarten through eight grade level. Elma School District is located in a severely economically depressed western coastal area. It also fosters global awareness and international cooperation in addressing environmental issues, such as acid rain and water quality, through telecommunication. Teachers are trained on how to use electronic mail; explore the Internet; and use CD-ROM programs, videodiscs, probeware, and other technology in environmental education.

# Salish Sea Discovery Center (\$5,000) Katherine Murphy, 9948 Shorty Campbell Road, Kingston, WA 98346

## Salish Sea Program

The Salish Sea Program involves 1,200 students in seventh through twelfth grades each year in researching and taking action on 40 issues facing the quality of Puget Sound waters. The program occurs in the students' classrooms, in the local community, and aboard a student-operated research sailing vessel. Students experience scientific careers through participating in the daily tasks of those areas. Approximately 40 to 80 teachers are exposed to a community-based action-oriented approach to presenting environmental education, and ultimately will provide existing grassroots groups with young adults who have the skill and motivation to act to solve environmental problems.

# Seattle Audubon Society (\$5,000) Christine Peterson, 8050 35th Avenue NE, Seattle, WA 98115

## Finding Urban Nature (FUN)

Finding Urban Nature (FUN) is a hands-on nature program for third and fourth graders in the Seattle Public Schools. FUN combines the curiosity of children with trained community volunteers, the enthusiasm of knowledgeable teachers and the coordination skills of a highly respected environmental organization. The Seattle Audubon Society trains parents and other volunteers to lead small groups of children through eight separate hands-on environmental education activities over the school year. The explorations take place on the schools grounds, and the children learn that nature is everywhere.

# Steilacoom Historical School District - Saltar's Point Elementary School (\$4,796) Kristina Sullivan, 908 Third Street, Steilacoom, WA 98388

## Forest Ecology: Training Project

This grant revises and strengthens environmental education curriculum by incorporating both the work of Project Global Rivers Environmental Education Network (GREEN) and the school's study of forest ecology into a program of study for students in third through fifth grades. The project provides in-service training to teachers in the study of local forest ecology and communicates this teacher expertise to the entire student body through field trips to forested sites.

## Stevens Elementary School - Seattle Public Schools (\$5,000) Pamela Roberts, 815 4th Avenue, North Seattle, WA 98109

#### **Weather Station - Curriculum Link Project**

This project provides hands-on experience with scientific and math concepts through on-site manual and automated weather monitoring systems and data. It develops and supports service learning links between five to ten Seattle Community College students and 120 third to fifth grade students at Stevens Elementary.

## Washington State Department of Ecology (\$5,000) Christine Corrigan, P.O. Box 47600, Olympia, WA 98504-7600

## **Central Washington Teacher Workshop**

The Department of Ecology is organizing and conducting three teacher air quality workshops in selected rural schools in central Washington. Each workshop trains 15 to 20 teachers and reaches 900 to 1,200 students. The workshops will help teachers incorporate air quality education into their normal curriculum with the message carried home by students.

# Western Washington University (\$5,000) Marie Eaton, MS 9118, Bellingham, WA 98225

#### Whatcom Watershed/Service Learning Project

This grant supports the training of teachers, future educators, and students to deliver high quality environmental education and service learning as part of the on-going Whatcom Watersheds Service Learning Project. The target audience includes 30 university students, 120 high school students, 100 elementary school students, 20 teachers, and 10 community members. Funds are used to coordinate two workshops and for watershed and wetlands resource materials.

#### **WEST VIRGINIA**

Lightstone Foundation (\$5,000)
Dr. Anthony E. Smith, HC 63, Box 73, Moyers, WV 26813-9502

#### **Future Stewards**

This project will promote environmental careers for students by providing training and apprenticeships in natural resource conservation, family farming, and rural community development. Federal funding will support wages for five high school students, a project director, and project expenses.

West Virginia Division of Environmental Protection (\$5,000) Roseanne Long, 10 McJunkin Road, Nitro, WV 25143

## Project WET Teacher Training Workshop: Groundwater Quality Issues

Teachers in four rural eastern West Virginia counties will learn about water and groundwater issues from the West Virginia Division of Environmental Protection (WVA DEP). WVA DEP will use *Project WET* (Water Education for Teachers) materials to illustrate the issues, which are particularly sensitive to water contamination because of the local karst hydrogeology.

### **WISCONSIN**

# Bad River Mashkisibi Tribal School, Bad River Band of Lake Superior Tribe of Chippewa (\$24,696)

Angela White, Principal, P.O. Box 39, Odanah, WI 54861

#### **Mashkisibi Watershed Education Project**

The Mashkisibi Watershed Education Project will integrate Native American culture into already existing watershed curriculum; offer a high school ecology course; and deliver educator training. Students engage in field work and action-oriented projects from an Ojibwe cultural perspective. Tribal elders will relay values through storytelling and contribute to the curriculum, which will prepare students in northern Wisconsin with the skills needed to address resource conflicts.

Cable Natural History Museum (\$4,340)
Allison Slavick, P.O. Box 416, Cable, WI 54821

#### Traveling High School Exhibit and Curriculum.

The Cable Natural History Museum is working with high school biology teachers at Drummond High School to co-teach a course entitled, *Environmental Issues and You*. During the course, students research, design, and produce a traveling exhibit about regional aquatic environmental issues, such as Lake Superior coastal wetlands. In addition, students are developing accompanying curriculum resources.



Milwaukee School of Engineering (\$3,225)
Dr. Deborah Jackman, 1025 N. Broadway, Milwaukee, WI 53202-3109

## **Promoting Environmental Careers through Upward Bound Program**

The Milwaukee School of Engineering (MSOE) is integrating an environmental engineering education module into its Upward Bound program for disadvantaged high school students. MSOE's project familiarizes students with the importance of understanding how environmental issues impact the quality of their present and future lives. In addition, the project is sparking the students' interest in environmental careers by taking them on field trips to local landfills and wastewater treatment plants.

## **WYOMING**

Wyoming Geographic Alliance (\$17,621)
Linda Marston, University of Wyoming, Box 3371, Laramie, WY 82071

## **Environmental Education Institute**

This institute will use a new Internet component to train teachers of kindergarten through twelfth grade in Wyoming about mountain environs, resources, and development. Approximately 300 teachers will participate through an in-service component to produce new or modified activities, including a digitized map to be used on the Internet in classrooms throughout Wyoming.

Wyoming Girl Scout Council (\$4,996)

Jane Caller, P.O. Box 50307, Casper, WY 82605

#### No Trace Camping

This project recruits and trains program specialists. It provides the Girl Scouts an analysis of old accepted methods of camping and explores new alternatives for preserving the environment by adopting a "no-trace" camping program. Through this project 455 girls from Wyoming and Colorado participate at a resident camp and 1,900 girls at a day camp. The project includes girls from the Wind River Indian Reservation.





# APPLICATIONS AND AWARDS FOR FISCAL YEAR (FY) 1996

In 1996 EPA received 1,896 proposals for environmental education projects and awarded 211 grants. The chart below breaks down the environmental education awards into three dollar ranges: 1) \$5,000 or less, 2) \$5,001 to \$25,000, and 3) more than \$25,000 (which are awarded by EPA Headquarters). The chart also lists the amount of federal funds requested by the applicants, the number of grants awarded, and amount of federal funds expended.

#### **APPLICATIONS RECEIVED - DOLLARS REQUESTED**

Region	Total Applications And \$ Requested		\$5,000 or less		\$5,001 to \$25,000	
			Number	Dollars	Number	Dollars
1	153	\$1,631,411	82	385,839	71	1,245,572
2	215	\$2,144,718	139	702,790	76	1,441,928
3	152	\$1,495,483	91	422,549	61	1,072,934
4	188	\$2,232,279	108	515,799	80	1,716,480
5	215	\$2,349,562	125	593,676	90	1,755,886
6	133	\$1,380,109	78	362,108	55	1,018,001
7	128	\$1,281,117	75	329,206	53	951,911
8	64	\$633,610	39	180,446	25	453,164
9	140	\$1,802,025	61	284,411	79	1,517,614
10	157	\$1,600,000	62	445,000	95	1,155,000
All Regions	1,545	\$16,550,314	860	4,221,824	685	12,328,490
Headquarters	351	\$36,054,01				
Total	1,896	\$52,604,325				

#### **GRANTS AWARDED - DOLLARS EXPENDED**

Region	Total Awards And \$ Spent		\$5,000 or less		\$5,001 to \$25,000	
			Number	Dollars	Number	Dollars
1	23	\$167,474	17	83,769	6	83,705
2	20	\$150,000	17	83,911	3	66,089
3	20	\$149,929	16	83,529	4	66,400
4	21	\$150,000	18	87,987	3	62,013
5	23	\$143,087	20	87,987	3	55,100
6	20	\$155,271	17	80,851	3	74,420
7	17	\$149,905	11	49,215	6	100,690
8	17	\$142,496	12	59,974	5	82,522
9	21	\$150,000	16	74,835	5	75,165
10	20	\$149,503	16	79,597	4	69,906
All Regions	202	\$1,507,665	160	771,655	42	736,010
Headquarters	9	\$628,000				
Total	211	\$2,135,665	1			

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## EPA REGIONAL ENVIRONMENTAL EDUCATION COORDINATORS (4/17/97)

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