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ABSTRACT

This annotated inventory of educational materials about environmental issues contains diverse listings ranging from workbooks to curriculum plans, to posters and pamphlets, to newsletters, films, and computer software. Individual citations have been organized into two major sections according to the public and private sector organizations that have developed and produced environmental education materials for teachers and students. Information concerning contact with these organizations is included. A third section describes the opportunities presently available for educators to participate in workshops and projects that allow them to gain expertise with resource materials. Further, there is an index of both environmental concepts and types of educational materials for speedy access. (JJK)

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Environmental Education Materials For Teachers And Young People (Grades K-12)

ED338506



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Introduction

This annotated compendium of educational materials on environmental issues has been compiled by the U.S. Environmental Protection Agency (EPA). Entries are diverse with materials described ranging from workbooks to curriculum plans, to posters and pamphlets, to newsletters, films, and computer software.

The publication's citations have been organized into two major sections according to the private and public sector organizations that have developed and produced environmental education materials for teachers, other educators, and students. A third section describes opportunities for educators to participate in workshops and to use other resources that can enable them to better cover environmental topics in their work with young people.

Users of this publication are encouraged to review citations and then contact the organizations whose materials appear to be most suitable for achieving particular informational and/or educational goals. This should help ensure awareness of the most current materials available and any costs for them.

EPA hopes to expand and update this publication as additional resources are called to its attention. Please make any recommendations for materials to be included by contacting:

Office of Environmental Education
U.S. Environmental Protection Agency
A-107
401 M Street, SW
Washington, DC 20460
(202) 260-4484

Summer 1991

Private Sector Organizations

Acid Rain Foundation

1410 Varsity Dr.
Raleigh, NC 27606

Dr. Harriet Stubbs
Executive Director
(919)828-9443

Acid Rain in Minnesota: Teachers Resource Guide. Seventeen interdisciplinary classroom activities involving economics, literature, government, environmental studies, speech, and drama.

Acid Rain Reader. (Grades 4-8) A primer for students, providing a general overview on acid rain.

Acid Rain: Science Projects. (Grades 5-12) Innovative, interdisciplinary projects, using scientific methods of inquiry, reviewed by a national panel of scientists, educators, teachers, and students. Projects include studies in pH measurement, logarithms, plants, microorganisms, and reading. Students learn about the consequences of acid rain and are introduced to possible alternatives for solving acid rain problems in the future.

The Air Around Us: An Air Pollution Primer. A booklet reviewing air quality issues for students and general audiences. Technical information is well illustrated. Suitable for schools, universities and libraries.

Curriculum, Acid Rain. (Grades 4-8) Twelve interdisciplinary activities include lesson plans and student worksheets. Subjects of science, math, social studies, art, and language arts. Includes information and pH paper.

Air Pollutants and Trees - A Curriculum. (Grades 4-12) For information on this new program, please contact the address above.

Curriculum, Acid Rain. (Grades 6-12) Interdisciplinary activities consisting of pre- and post-lesson tests, classroom activities, and bibliography. Disciplines

covered: life sciences; biology; earth sciences; physical sciences; chemistry; social science.

Information Packet. General overview packet includes brochures, articles, legislation, and poster which explain acid rain: its causes, effects, and possible remedies.

Acid Rain Quiz for Kids. (Grades 4-8) Thirty worksheets for use in the general classroom as part of curriculum units on acid rain.

Acid Rain Word Find. (Grades 4-8) A word game designed to teach vocabulary about acid rain.

pH Low Ion Test Kit. Test kit with pH paper, two glass vials, and color chart.

Poster Packet. Includes Acid Rain Foundation poster and U.S. Fish and Wildlife Service poster.

Transparencies. The story of acid rain deposition, on 12 multicolored transparencies.

Tree Cores. Teaching aids to show how trees grow. Actual tree cores donated to the Acid Rain Foundation. Red Spruce cores are set into cherry wood (1 1/2 x 12 inches x 1/4 inch), finely sanded, and ready for polyurethane or finish.

Tree Core Activity with Single Tree Core. Tree core sample and illustrated description on how and where the tree core was collected. Package includes a student worksheet and activity instructions.

Library available for local use.

FREE catalog provides more information plus prices on materials described above.

American Geological Institute (AGI)

4220 King St.
Alexandria, VA
22302-1507
(703) 379-2480

AGI Publications and Services. **FREE** catalog lists all AGI publications, prices and how to order them.

American Lung Association

1740 Broadway
New York, NY 10019
(212) 315-8728

Charlie Brown Cleans the Air. (Grades K-3) A cartoon story about the ambient environment and the need to keep it clean. Film, a film announcement booklet, film guide and storyboard. Contact local offices or the address above to learn about loan and purchase possibilities.

What's Your Air Pollution I.Q.? (Grades 9-12). A short question and answer quiz.

American Water Works Association

6666 West Quincy
Denver, Colorado
80235

Kimberly M. Knox
Manager, Youth
Education Program
(303) 794-7711,
Ext. 2804

Story of Drinking Water. (Grades 4-12) This recently revised sixteen-page activity workbook, illustrated in full color, describes water treatment, distribution, pollution, quality, economics and conservation. The text is written on the sixth grade reading level.

Water Follies. (Grades 3-6) Seven and 1/2 minute 16 mm color film features a fun, educational look at water conservation.

Teacher's Guides. (Grades: primary: K-3; intermediate: 4-6; advanced; 7-9) These guides enable instructors to expand learning about water with easy-to-integrate curriculum activities. The activities deal with language arts, science, health, social studies and math. Format: teacher's guide sheets on one side, student's worksheets on the other.

What Do You Know About H₂O? (Grades 6-12) Twenty minute video (VHS- 1/2") focuses on water conservation and water consumption. Presented in a question and answer format, the video is also available on a rental basis.

Project Water Works. A software package (Apple II-e format). The package of two floppy disks and a 90-page teachers' workbook allows students to discover natural resource management, chemistry and water conservation with creativity and imagination. Free demonstrations are available.

Public Information leaflets

- Water Conservation at Home. (Grades 5-12)
- Coloring Fun for Little Water Users. (Pre-School and Kindergarten)
- Take a Test. (on water conservation) (K-3)
- 25 Things You Can Do to Save Water. (Grades 4-9)
- Five Basic Ways to Conserve Water. (Grades 4-9)
- Conserve Water. Reminder sticker (Grades K-6)

FREE packet of information including prices available on request.

Water Fun for You. (Grades K-4) A 16 page educational activity workbook which involves students in fun, imaginative activities on water cycle and conservation and integrates a variety of different curriculum areas.

Poster Series. (Grades K-8) A series of posters on water distribution, water treatment and the water cycle.

Always Pure - Never Runs Dry. (Grades 4-12) Fifteen minute video (VHS-1/2") is available on rental basis. Shows how "real-life" water system works and also talks about water conservation.

Bullfrog Films

Oley, Pennsylvania
19547

Elizabeth Stanley
(215) 779-8226
1-800-543-FROG

FREE catalog describes environmental films and videos on Ecology and Environment, Forests, Marine Biology, Animal Studies, Energy, and Agriculture.

Catalog provides rental and purchase prices.

The Center For Marine Conservation

1725 DeSales St.,NW
Suite 500
Washington, D.C. 20036

Linda Bennett
(202) 429-5609

The Ocean: Consider the Connections. (Grades K-8)
Activity book for children.

Sea Turtle Coloring Book. Bilingual (Spanish/English)
coloring book.

Sea Turtles of the World. Poster.

FREE materials list including slide show descriptions and price information available upon request.

Chesapeake Bay Foundation

62 Prince George St.
Annapolis, MD 21401

Christina Pompa
(301) 268-8816

The items described below have been developed for use by students and teachers in jurisdictions bordering the Chesapeake Bay including the District of Columbia, Maryland, Pennsylvania, and Virginia.

Activity card series. Two subjects (or a subject and an activity) on each card.

Nutrients Too Much of a Good Thing - Algae Soup
Be a Soil Scientist - How Deep Does Your Garden Grow?
Creating Wetlands - More Than Just a Swamp
Carving Rivers - Muddy Rivers, Murky Bay
Every Drop Counts - Clean Water: A Priceless Resource
A Club for the Chesapeake - Doing Your Homework
Household Hazardous Waste - Toxic Dump Under the Sink - Streams in Distress - How Clean is Your Stream?
Recycling Makes Cents - Recycling Makes Sense
A Raindrop Goes to Sea - What's a Watershed?
Bay Ethics - Conservation and Use

Chesapeake Bay Field Trips. Pamphlet describes alternative trips. Its enclosure provides price information, number of boat passengers.

Don't Dump. Pamphlet on storm drain painting project.

Stream Clean-Up Project. Pamphlet describes project initiation.

Resources Available from Various Sources. Includes information on materials to prepare students for field trips, map resources, books on the Chesapeake Bay.

30 Ways to Save the Bay. Calendar to use in April, Earth Day month.

What Can I Do to Save the Bay. Pamphlet lists recommended actions.

Teachers in the District of Columbia, Maryland, Pennsylvania and Virginia may request single FREE samples of materials by contacting the addressee above or the Foundation's other offices in Harrisburg, PA and Richmond, VA.

**Citizens Clearinghouse
For Hazardous Wastes**

P.O. Box 926
Arlington, VA
22216

Education Department
(703) 276-7070

Fifty handbooks on a wide variety of topics including recycling, toxic waste, and stress problems in communities with hazardous waste present.

Fact Packs for students available on many environmental subjects.

FREE catalog includes price information.

Coastal States Organization

444 N. Capitol St., NW Margie Fleming
Suite 312 (202) 628-9636
Washington, D.C. 20001

Coastal Zone Management Poster. FREE upon request.

Community Environmental Council

930 Miramonte Drive Jim Wright
Santa Barbara, CA (805) 963-0583
93109

Acts as a clearinghouse, referral source on environmental curriculum materials. Call or write to gain

recommendations for integrating environmental topics into core curricula.

Delta Education, Inc.

Box M
Nashua, NH 03061-6012
1-800-258-1302
In NH call collect: 889-8883

Outdoor Biology Instructional Strategies. FREE booklet describes modular programs that provide innovative ways

for young people to learn about the environment and biology through guided activities outdoors.

Disney Educational Productions

2600 W. Olive Ave.
10th Floor
Burbank, Ca 91505
(818) 972-3415

Educational Media. (Grades K-12) FREE catalog listing environmental filmstrips, films and videotapes for young people available upon request.

Earth Beat Press

P.O. Box 33852
Station D
Vancouver, B.C.
Canada V6J 4L6
(604) 736-6931

Good Planets are Hard to Find. (Grades K-12). An environmental information guide, dictionary and action book for kids (and adults). Also lists over 200 different

environmental groups world wide and their addresses. Write or call for price information including quantity discounts.

Edison Electric Institute

Attn: Order and Billing
1111 19th St., NW
Washington, D.C.
20036-3691
(202) 778-6424

A Century of Light. Education kit. Includes masters, poster, teacher's guide, and provides hands-on activities to explore the principles of technology. Available in separate kits for grades K-3, 4-5, and upper grades.

Keeping the Lights On. (Grades 5-9) Education kit. Activity program discusses coal and other energy sources. It includes six spirit-master activity sheets and a teacher's guide.

Electricity Serves our Community. (Grades K-6) Education kit. Includes a cardboard model of an electric utility system, teachers guide, bulletin board cutouts and a diagram for display.

A Basic Guide to Nuclear Power. (Grades 6-12) Booklet explains how nuclear power process works and produces electricity. Content also discusses radiation and nuclear waste.

FREE catalog provides more information plus prices.

Environmental Action Coalition

625 Broadway
New York, NY 10012
(212) 677-1601

EcoNews. (Grades 4-6). Children's newsletter. Back issues available on various topics.

- City Trees, Country Trees. (forestry)
- Plant a Tree for Arbor Day. (forestry)
- Don't Waste Waste! (waste disposal)
- Woods and Water. (water supply and conservation)

Curriculum Guides. Each includes background information for teachers, student activity plans, annotated resource lists.

FREE resource list including price information available upon request.

- Green Spaces in City Places. (forestry in urban environment)

Global Tomorrow Coalition (GTC)

1325 G St., NW
Suite 915
Washington, D.C. 20005-3104
(202) 628-4016

Global Issues Education Sets. Each set includes six teacher units for elementary and secondary levels. Lesson plans and activities emphasize interactive learning models through participation in hands-on activities, group discussions, role-playing, simulations, and individual creativity. For more information on the topics and cost, contact GTC.

The Global Ecology Handbook. Designed to provide the basic facts about global population, resource and

environmental problems. Demonstrates how these problems are interrelated. Shows how the problems affect the lives of people around the world. Cites successful efforts to alleviate the problems in the U.S. and around the world. Proposes alternative solutions based on the best information available. 414 pages, 117 tables/charts, and nearly 1600 references. Contact GTC to determine current price.

Institute For Environmental Education

32000 Chagrin Blvd.
Cleveland, OH 44124

Mary Chadbourne
Vice President
(216) 464-1775

An Environmental Education Guide for Teachers. (K-12) Includes strategies for teaching environmental-problem-solving (EPS) and initiating an EPS-based curriculum. Subjects covered include project evaluation and grading, finding and using community resources, and involving others in problem-solving approaches.

Tuning the Green Machine: An Integrated View of Environmental Systems. Book suitable as a high schooler's primer. Discusses the nature of the earth and its air, water, soil, and energy. Those basics are then related to the sources and effects of pollution. Guidelines for pollution clean-up and prevention are given.

Nature Conservancy's Student Stewardship Program. Teacher and student manuals available.

The following are **Curriculum Activity Guides** to:

Water Pollution and Environmental Studies, Volumes I and II. (Grades 9-12) Chapters include the hydrologic cycle, human activities, ecological perspectives, and social and political factors. Includes: laboratory and field-testing procedures; considerations for implementing water studies; a bibliography of materials including periodicals and films; a glossary; and safety tips.

Water Pollution Equipment and Environmental Studies, Volume III. (Grades 5-12) Explains how to build 22 basic, relatively non-technical devices for measuring water quality parameters and related factors. Each plan includes a list of materials needed, sources, costs, and tools required. Can be adapted for elementary students.

Solid Waste and Environmental Studies, Vol. IV. (Grades K-12) Offers students an understanding of solid waste management problems. Activities, designed for both rural and urban community involvement, range from one class period to several weeks in duration.

Birds, Bugs, Dogs, Weather and Environmental Studies, Vol. V. Case histories from a West Virginia summer camp, urban studies from public schools in Ohio, and Project KARE in Pennsylvania involve students in simple observations to actual hands-on activities.

Watershed Investigations and Environmental Studies, Vol. VI. The "whys" and "hows" of studying a watershed are covered. Introductory activities for the field and classroom provided.

A FREE listing of materials including prices is available upon request.

**Izaak Walton League
Of America**

1401 Wilson Blvd.
Level B
Arlington, VA 22209

Karen Firehock
(703) 528-1818

Save Our Streams. Stream adoption program. Guide entitled "Save Our Stream Activities for Kids" helps elementary and early middle school students discover water problems and ways to solve them.

Learning to Love Streams: Save Our Streams. (Grades 4-12) A collection of teacher lesson plans for stream activities and monitoring. Designed to test stream water quality and to pinpoint problems.

Save Our Streams Kit. Everything needed to start an effective and active stream monitoring program. Includes

SOS stream survey, vocabulary list, stream insect identification chart, promotion hints, erosion fact sheet, project ideas, registration card, poster, and bumper sticker. (Suitable for junior, senior high schoolers and adults).

A Stream Watchers Stream Guide. Tips on identifying pollution and practices to reduce it in streams.

Ask for additional FREE information plus price list.

Modern Talking Picture Service

5000 Park Street North
St. Petersburg, FL 33709
(813) 541-5763

FREE catalogs for Elementary or Junior/Senior High Schools list environmental films and videos available on a no-charge-loan basis.

**National Arbor Day
Foundation**

100 Arbor Avenue
Nebraska City, NE
68410
(402) 474-5655

Mimi Steinheider
Education Director

Conservation Trees. This booklet demonstrates the vital use of trees in conservation. Readers learn how to use shade trees and windbreaks to conserve energy, how to save trees during construction, how to manage a woodlot or tree plantation, how to save topsoil and attract songbirds and the right way to plant and prune trees. FREE.

Keep A Great Thing Growing America, Tree City USA. This booklet describes the many benefits of trees in the community, the importance of a good urban forestry program and the four standards communities must meet to be named Tree City USA. FREE.

Celebrate Arbor Day. Booklet provides information to help celebrate the tree planter's holiday. It includes a history of Arbor Day, an Arbor Day play and poems, ideas for planning a ceremony or celebration, and a bibliography of other sources. FREE.

Arbor Day-A Celebration of Stewardship. (Grade 5). Instructional kit includes a poster, audio cassette, celebration packet, and teacher's guide. Modules can be integrated into science and social studies curricula. FREE to fifth grade teachers who request kit be sent to their schools.

Grow Your Own Tree (Grades K-3). This instructional kit teaches the value and magic of trees. The unit includes two posters, two full-color filmstrips with audio cassettes, a teacher's guide, student activity masters and 25 tree planting kits. FREE to kindergarten through third grade teachers who use school stationery or request kit be sent to their schools.

Plant Trees Stickers. One and 1/2 inches in diameter. Available in multiples of 50.

Posters. Full color, on heavy paper, shipped folded. Minimum order of five. One poster illustrates how trees fight global warming and the second poster visually describes the benefits of planting trees on slopes of land. Each is 22 by 34 inches and available in minimum orders of five.

Contact the Foundation for poster, sticker prices and list of materials.

National Association Of Biology Teachers (NABT)

11250 Roger Bacon Dr.
#19
Reston, VA 22090
(703) 471-1134

Careers in Biology: A Challenge. Up to 3 copies: FREE; charge for additional copies.

NABT Guidelines for the Use of Live Animals in Classrooms. FREE.

The Responsible Use of Animals Including Alternatives to Dissection. (NABT Policy Statement) FREE.

NABT Biology Teaching Standards. FREE.

NABT Ethics Statement for Biology Teachers. FREE.

Monograph Series:
Biotechnology, Genetic Engineering and Society

Responsible Use of Animals in Biology Classrooms

Oceanography for Land-Locked Classrooms

FREE list of monographs and their prices is available upon request.

National Association For Humane And Environmental Education

67 Salem Road
East Haddam, CT 06423-0362
(203) 434-8666

Kind News (Grades 2-6). A classroom newspaper produced at two reading levels, 2-4 and 5-6.

Sample issue plus subscription information available FREE upon request.

National Audubon Society

See addresses below for materials available from different sources.

1. Audubon Adventures. (Grades 3-6) National Audubon Society's youth education program for elementary school classes and other groups of children. An enrolled class or group receives *Audubon Adventures*, bimonthly newspaper for children, the companion *Leaders Guide* of background information and activity ideas for the teacher, as well as the student membership cards and decals.

For further information, contact Registrar, Audubon Adventures, NAS, 613 Riversville Road, Greenwich, CT 06830. (203) 869-5272.

2. The Egret Express. Newsletter of the NAS Education Division. FREE sample kit includes newspaper, leader's guide, price information and enrollment form. Teachers may request receiving *The Egret Express* by writing to its editor at the National Audubon Society, 950 Third Avenue, New York, NY 10022.

3. Educational Posters. Teaching posters available with instruction guides. Subjects depicted include Arctic Tundra, Tropical Rain Forests, Coral Reefs, Rivers and Wildlife,

Wildlife, Freshwater Marsh, Saltwater Marsh, Birds of Eastern North America, Birds of Western North America, and Hawks of Northeastern America.

4. Audubon Adventures Cassette and Songbook.
Sixteen-song audio cassettes plus illustrated songbook.

To get price information and place orders for items 3 and 4 above, contact NAS, Rt. 4, Box 171, Sharon, CT 06069, (203) 364-0520.

Curriculum Guides

Living Lightly in the City, Volume 1. (Grades K-3) This curriculum guide includes action-oriented activities that stimulate children to explore their surroundings and develop a positive image of themselves and their environment. Many of the activities focus on language development. Resource materials include mobile patterns, flannel board cut-outs, mystery cards, student activity sheets, and posters. Puppets, poetry, art projects, and games are used.

6. Living Lightly in the City, Volume 2. (Grades 4-6) This 11 unit curriculum covers land use, water resources, transportation, nature in the city, and Native American philosophy. Topics are presented in action-oriented activities. The volume has 60 transparency designs, mystery cards, and student activity sheets.

7. Living Lightly on the Planet, Volume 1. (Grades 7-9) This curriculum enables students to explore global population concerns and delve into land use issues. Environmental concerns at home are also emphasized in investigations covering groundwater, lifestyles, and urban ecology. Students can role-play a variety of viewpoints and create displays to communicate conservation and recycling activities.

8. Living Lightly on the Planet, Volume 2. (Grades 10-12) This curriculum guide is designed to help students apply knowledge of ecological concepts to human interaction with the land. Global concerns such as famine, rain forest conservation, acid rain, hazardous waste, and international peace are presented in investigations which challenge students' critical thinking, communication and problem-solving skills. Students can be encouraged to debate the nuclear power issue and explore the possibilities for alternative energy, appropriate technology, and lifestyles for the 21st century.

For FREE information and prices on the curriculum guides described in items 5,6,7 and 8, contact Living Lightly, Schlitz Audubon Center, 1111 East Brown Deer Road, Milwaukee, WI 53217.

National Energy Foundation

Resources for Education
5160 Wiley Post Way, Suite 200
Salt Lake City, UT 84116
(801) 539-1406

FREE catalog lists resource materials for grades K-12 on energy and the environment.

National Geographic Society

17th & M Streets, NW
Washington, D.C.
20036
(202) 857-7378
In MD:(301) 921-1330

Wendy G. Rogers
Director
Educational Services

FREE Educational Services catalog listing environmental films and videos, computer software, filmstrips, books,

magazines, and cartographic materials is available upon request. Catalog's materials are for pre-kindergarten through grade 12, plus adults.

National Science Teachers Association (NSTA)

1742 Connecticut Ave., NW
Washington, D.C. 20009-1171

NSTA Publications and Membership Catalog. FREE publication describes curriculum guides, cassette

programs and posters targeted primarily to science teachers and students.

National Wildlife Federation

1400 16th St., NW
Washington, D.C.
20036-2266
1-800-432-6564

Barbara Pitman
Director
Educational Outreach

NatureScope. (Grades K-8) Environmental education activities series, each issue focusing on a specific area of nature and science teaching. Includes up-to-date background information about that issue's topic, activity ideas to reinforce learning, ready-to-copy activity sheets, a craft section, an appendix, and an up-to-date bibliography. Issues cover the following topics:

- Digging into Dinosaurs
- Discovering Deserts
- Wading into Wetlands
- Amazing Mammals- Part I
- Amazing Mammals- Part II
- Incredible Insects
- Geology: The Active Earth
- Let's Hear It for Herps!
- Wild about Weather
- Birds! Birds! Birds!
- Trees are Terrific
- Astronomy Adventures
- Endangered Species: Wild and Rare
- Diving into Oceans
- Wild and Crafty
- Rain Forests: Tropical Treasures

Video Cassette Programs

The Challenge on the Coast. Learn how people from Pennsylvania, North Carolina, Texas and California are working to save our coasts from pollution and overdevelopment. 60 minutes.

Champions of Wildlife. People helping wildlife; efforts to save sea turtles in Florida, ospreys in Massachusetts, and development of habitat in Oregon. 60 minutes, VHS format.

The Rivers. How people from the Rio Grande in Texas to Virginia's Rappahannock River have worked to restore and preserve rivers and streams near their homes. 60 minutes, VHS format.

The Wetlands. View how citizens in Louisiana and Mobile, Alabama, work to save threatened wetlands. 60 minutes, VHS format.

Our Threatened Heritage: Endangered Tropical Forests. Complete description and examination of the tropical deforestation problem and a look at some of the solutions. Beautiful photography. 18 1/2 minutes, VHS format.

Slide/tape or Filmstrip/tape Programs

Earth Day Every Day - You Can Make a Difference! 15 minutes

Water: We Can't Live Without It. 14 minutes

Soil: We Can't Grow Without It. 15 minutes

Let's Clear the Air. 15 minutes

Predators! They're Part of the Picture. 15 minutes

This is Your Land. 15 minutes

We Care About Eagles 15 minutes

Discover Wildlife in Your World. 10 minutes

Forests Are More than Trees 20 minutes

Magazines:

Your Big Backyard. Monthly magazine for preschoolers.

Ranger Rick. Popular nature discovery magazine filled with wildlife adventure stories.

National Wildlife and International Wildlife. For senior high schoolers and other adults, this publication focuses on the natural wonders and wildlife of the U.S. and the world.

Program For Educators:

Educators' Summit. Specifically developed for teachers and school administrators, the Educators Summit provides advanced training in environmental education. The Summit experience includes 5 days of exploring nature

through educational programs, interpretive activities, creative indoor/outdoor adventures, and scenic field trips.

FREE catalog containing information on materials, their prices and magazine subscription costs can be requested by calling 1-800-432-6564.

P3 Foundation

P.O. Box 52
Montgomery, VT 05470

Magazine for kids. Named for the Earth's position as the third planet from the sun, a sample of this magazine is sent FREE to your

school library if a written request, printed on school letterhead, is received at the address above.

Pyramid Films

Box 1048
Santa Monica, CA 90460
(213) 828-7577

A FREE catalog listing environmental films for young people is available upon request.

Sierra Club

c/o Pat Suiter
P.O. Box 557953
Miami, FL 33255-7953

Pat Suiter
(305) 666-2906
(evenings only)

Sierraecology. Environmental Education bimonthly newsletter.

Green Guides. A listing of hard to find, free, and inexpensive material on 67 specific environmental subjects. Especially good for librarians trying to locate materials for teachers.

Filmstrips: All come with audio cassettes and complete teaching guides.

- **The Old Bullfrog.** (Grades K-1) A lesson in nature study about a wise old bullfrog who outwits a hungry heron. Includes student activity sheets.

- **The Lorax.** (Grades 2-5) An introduction to ecology and conservation. A once-beautiful forest becomes a smog-covered dump. The loud and dire warnings of the Lorax are ignored for short-term monetary gains. Includes student activity sheets.

- **Pollution: Don't Just Stand There-Do Something.** (Grades 3-7) An introduction to many current pollution issues. Through specific examples, children learn what pollution is, how it is caused, and why we should be concerned about it. They also will learn what can be done to help solve the problem.

- **The Interdependence of Nature.** (Grades 4-6) Emphasizes conservation's importance by demonstrating the interrelationships in nature.

- **Will They Survive?** (Grades 3-7) Examines the reasons certain species are endangered, what has been done to save them, what are their chances for survival.

Other materials are available on a variety of environmental subjects. Describe the topic(s) you wish to know more about and you will be sent materials and/or information on materials.

Write for FREE information plus prices for renting or purchasing materials and to gain advice on educational materials available for a specific environmental subject need.

Soil And Water Conservation Society

7515 Northeast
Ankeny Rd.
Ankeny, Iowa
50021-9764

Tim Kautza,
Director of Programs
(515) 289-2331
1-800-THE-SOIL
FAX- (515) 289-1227

Microcomputer Courseware for Apple and IBM Computers. Includes a two sided diskette, 38-page student manual, and a 30-page teacher's guide. Over 50 activities and teaching strategies that blend soil/water conservation into language arts, mathematics, social studies, and science curricula.

Cartoon Booklets. The following are 16 page, full-color cartoon booklets and a teacher's guide. All are for grades 4 and above.

The Story of Land - Its Use and Misuse through the Centuries. Presents the history of land use from 4500 B.C. to the present. Focuses on conservation in the U.S. since the 1600s. Describes what young people and adults can do to help conserve natural resources.

Plants: Improving Our Environment. Describes how people are dependent upon green plants and how we use them for pollution abatement, soil conservation, beautification, building materials and much more.

Robot: of Cave Alpha: Creating a Livable Land. Presents an adventure story that focuses on the role of the individual in environmental decision making.

Dracons Visit Earth: To Study Food and the Land. Two visitors from the planet Draco come to Earth to study land and food relationships. Students learn what can be done to help ensure an adequate world food supply and examine nutrition, a farm-to-home processing system, and factors that affect food production, soil/water conservation. They can also learn the history of agriculture.

Make Room for Monsters... and Wildlife on the Land. Two children searching for Big Foot are assisted by an ecologist who helps the children understand the impacts human behavior can have on wildlife. Examine the basics of ecology, local and exotic ecotypes, and learn ways to attract wildlife to yards and apartments.

Water: The Basis of Life. Discover the importance of water to plant and animal life and its uses by industry, agriculture, and rural and urban citizens. Learn about the water cycle, and how to protect and conserve this valuable resource.

FREE brochure provides more information and prices.

The Video Project

Films & Videos for a Safe and Sustainable World
5332 College Ave., Suite 101
Oakland, CA 94618
(415) 655-9050

1990 Preserving the Environment. FREE catalog describes 25 film and video programs on the environment. Video format programs can be rented or purchased.

Water Pollution Control Federation

601 Wythe Street
Alexandria, VA 22314

Liz Lin
(703) 684-2400

Brochures on:

Wetlands
Clean Water
Ground Water
Waste Water Treatment
Household Hazardous Waste
Hazardous Waste Reduction

Videos for Students:

Surface Water
Wastewater Treatment
Ground Water
Water Conservation
Careers in Water Quality

Contact addressee for more information.

World Wildlife Fund And Conservation Foundation

1250 24th St., NW
Suite 500
Washington, DC 20037

Allison Rogers
(202) 293-4800

Vanishing Rain Forests Education Kit. (Grades 2-6) This program, while designed to be used in conjunction with the Smithsonian Institution Traveling Exhibit Services (SITES) exhibit, "The Tropical Rain Forest: A Disappearing Treasure", can also be used separately to bring rain forest issues into the lives of students. The package includes: a 28-page booklet with color photographs to introduce the rain forest, its ecology, its importance to the world and the threats endangering this ecosystem; a teacher's manual that includes background information and recommended activities; a full-color poster showing animal and plant species threatened by poorly planned forest use; a black and white poster illustrating the layers of a rain forest located in Borneo; and "Rain Forest Rap", a six-minute video showing the beauty of the rain forest and introducing its animals and plants.

Wildlife Trade Education Kit. (grades 9-12) This kit's materials illustrate how illegal and excessive trade endangers and may cause extinction of many species of wildlife. Elephants, spotted cats, sea turtles, crocodiles, and parrots are among the creatures severely exploited as protection laws are routinely undermined by poachers and smugglers. Animals, ivory, furs, shells and hides are illegally brought into the United States and then offered for sale to Americans, the world's largest consumers of wildlife. The kit includes: an 80-slide show and script entitled "Wildlife Trade: The Poacher, the Law, and the Consumer", an educator's guide, factsheets on traffic in heavily traded wildlife species and products; two full-color posters, a brochure, and a bumper sticker.

Tropical Rain Forest Teacher's Kit. (Grades 6-12. Available in Spanish only). Provides background information on the ecology of the tropical rain forest and the environmental problems that presently affect the functioning of this ecosystem. Suggests activities teachers can use to add tropical rain forest topics to their existing curriculum. Includes a teacher's guide, coloring book, posters, rain forest simulation game, and a student's packet of materials.

Coral Reef Teacher's Kit. (Grades 6-9. All materials in Spanish as well as English). Provides teachers with background information on coral reefs, their importance in the ecosystem, and the wildlife found there. Includes various activities that teachers can use to communicate this information to their students. Contains teacher's guide, coloring book, poster, and color slides. Contact Gertrude James at the above number and address for ordering information.

A FREE catalog containing more details on, and prices for, these kits may be gotten by writing or calling the addressee at the top of the citation.

Persons wanting to order these materials directly may do so by contacting: World Wildlife Fund & The Conservation Foundation, P.O. Box 4866, Hampden Post Office, Baltimore, MD 21211 or calling (301) 338-6951.

Zero Population Growth, Inc.

1400 16th St., NW
Suite 320
Washington, D.C. 20036

Pamela Wasserman
(202) 332-2200

The ZPG Catalog of Population Teaching Materials. (Grades 6-12 and college) offers activity kits, computer software, videos, games, and lessons in population studies related to biology, earth science, geography, social studies,

economics, sociology, math, language arts, and computer science.

FREE catalog contains descriptions of materials and provides prices.

Public Sector Organizations

State, county and any local groups' citations appear at the beginning of this section. Those descriptions are followed by citations for federal government departments, agencies and special organizations.

Please note that most state agencies will only meet requests from teachers working within their jurisdictions.

California Air Resources Board

Public Information Office
P.O. Box 2815
Sacramento, CA 95812
(916) 322-2990

California: An Air Quality Pioneer (Grades 8-12). Describes the Air Resources Board and its shared responsibilities with Air Pollution Control Districts throughout California.

Facts About Acid Precipitation in California (Grades 8-12). Provides a general overview of acid rain, including its causes and environmental effects.

Facts About How Air Pollution Damages Health (Grades 8-12). Provides a general overview of how air pollution

damages health and what pollutants are of most concern in California.

Facts about the Effect of Smog on California Plants (Grades 8-12). Provides a general overview of how air pollution affects plants, including which pollutants are most damaging.

Materials aimed to Californians, however, single copies available FREE to non-Californians as well.

California Integrated Waste Management Board

Legislation and
Public Affairs
1020 9th Street
Suite 300
Sacramento, CA 95814

Michelle Marlow
Lawrence
Associate
Government
Program Analyst
(916) 322-2684

Solid Waste Environmental Education Program (SWEEP)

The Wizard of Waste. (Grades 2-4)

The Trash Monster. (Grades 5-7)

Each 10-lesson plan includes teacher's guide, filmstrip and cassette tape, pre- and post-lesson tests, picture cards,

home information leaflets, and pupil booklets. Self-contained, interdisciplinary units designed to teach students resource conservation skills they can apply in their daily lives.

FREE list including price information is available upon request.

Kentucky Natural Resources And Environmental Protection Cabinet

Department for Environmental Protection
Frankfort Office Park
18 Reilly Road
Frankfort, Kentucky 40601
(502) 564-3410

Free pamphlets available:

Kentucky Wild Rivers
10 Ways You Can Help Keep Kentucky Water Resources Clean

The following are field guides available to teachers.

A Field Guide to Kentucky Rivers and Streams
A Field Guide to Kentucky Lakes and Wetlands

Water Watch Program. A program conducted by the Division of Water with services designed to encourage and support citizen participation in the wise management of community water resources, including streams, lakes, wetlands and groundwater. Any individual, group, family, organization, school or business can become an official "Kentucky Water Watcher".

Local Government Commission (California)

Donna Spreitzer
909 12th St., #205
Sacramento, CA 95814
(916) 448-1198

Toxics in my Home? You Bet! (available in Spanish or English) Developed by Golden Empire Health Planning Center as a one week course of instruction, this school curriculum identifies: toxics in the home environment; methods for reducing exposure to household toxics; unsafe circumstances involving toxic products; and safer

alternatives to using such products. Step by step teaching instructions, masters for worksheets, teacher answer guides, and evaluation methods are all included.

Grades K-3
Grades 4-6
Grades 7-8
Grades 9-12 in Spanish only.

Michigan Media

Film and Video Library
University Library
The University of Michigan
400 4th Street
Ann Arbor, MI 48103-4816
(313) 764-5360 or (800) 999-0424

Free catalog lists environmental films and videotapes for young people's viewing. Programs are available on a rental basis.

**New York State Department Of
Environmental Conservation**

Room 504
50 Wolf Road
Albany, NY
12233-4500

Director,
Bureau of
Environmental
Education

Pamphlets describing various materials available to New York State teachers.

**New York State
Education Department**

University of New York
Albany, NY 12234
(518) 474-5890

New York State teachers can request a list of materials available.

**Ohio Department Of
Natural Resources**

Division of Litter
Prevention and
Recycling
Fountain Square
Bldg. F-2
Columbus, OH 43224

David Landis
(614) 265-6444

Super Saver Investigators (Grades K-8). An interdisciplinary environmental studies activity guidebook about solid waste, recycling, and natural resources. Contains over 65 hands-on learning experiences related to science and social studies lessons normally taught by

elementary teachers. Includes skill-building handouts in language arts, math, reading comprehension, creative writing, art and design. Illustrations enhance student interest. Text is secured in a 3-ring binder. For cost and ordering information write to above addressee.

**San Francisco
Recycling Program**

Rm 271, City Hall
San Francisco, CA
94102

Amy Pearlmutter
(415) 554-6194

Fourth R (Grades K-5). Curriculum on recycling, reuse, and waste reduction. Teacher lesson plans, student activities, and worksheets. \$10 payable to City and County of San Francisco.

Resource fact sheets and general recycling information available free upon request.

**South Carolina Water Watch
Committee**

1205 Pendleton Street
Columbia, SC 29201

You Otter Care About Water - water watch program manual contains information to enlist students and adults

in helping protect the streams, lakes, wetlands, estuaries and beaches of South Carolina.

Texas Water Commission

Office of Public
Information
P.O. Box 13087
Capitol Station
Austin, TX 78711-3087

Renee Carlson
(512) 463-8028

W.E.T. (Water Education Team) Program (Grades 4-6).
The W.E.T. Program is intended to supplement the regular elementary curriculum or for use as a special project by youth organizations. However, many of the activities are appropriate for K-12 classes. Water Education Teams work together to understand and preserve the water resources in their local environment. Through water quality activities, student teams study pollution problems, understand the importance of water

and realize the need to preserve water supplies. Adopt-a-Cree activities enable students to survey a local body of water, test its waters and help resolve its problems. Indoor/outdoor activities to provide hands on experiments for students in areas where no surface water is available.

Contact the Commission for more information on these programs.

Texas Water Development Board

P.O. Box 12321
Austin, TX 78711-3231

Donna Darling
Director, Office of
Public Information
(512) 463-7869

Texas Water Education Network Directory. An annual publication listing water and environmental education programs and/or materials suitable for use in public schools. A contact is provided for each resource listed.

The materials listed include classroom curriculum, comic books, pamphlets, dramas, speakers bureaus, workshops, seminars, and field trip opportunities.

University Of California Extension Media Center

2176 Shattuck Ave.
Berkeley, CA 94704
(415) 642-0460

FREE catalog listing environmental films and videos for young people is available upon request.

Virginia Department Of Air Pollution Control

P.O. Box 10089
Richmond, VA 23240

Beth Lester
(804) 786-7913
Kathleen Sands
(804) 225-2722

Environmental Coloring Books (Grades K-6).

- "Color Your Environment" (environmental issues)
- "Airy Canary" (air issues)
- "Air Bear" (woodstoves)

Single copies FREE; check for prices on quantity orders.

**Washington State
Department Of Ecology**

4350 150th Ave., NE
Redmond, WA
98052-5301

Jan Lingenfelter
(206) 867-7043

A-Way With Waste, 3rd Edition, 1990 (Grades K-12). Waste management and recycling curriculum and school program. The goal of the program is to reduce waste and increase recycling at home, at school and in the community. A 602 page interdisciplinary guide of 117 activities. Three sections cover concepts in Solid Waste

Management, Hazardous Waste, and Waste and Water. Articles, research reports, glossary, bibliography, fact sheets and resources. This book is free to Washington State teachers who take a workshop.

Write or call for prices to purchase curriculum.

**Wisconsin Department Of
Natural Resources**

P.O. Box 7191
Madison, Wisconsin 53707-7191

Wisconsin Natural Resources (Grades 7-adult). Colorful, informative magazine—published bimonthly—specific to Wisconsin's natural environment.

Write for subscription information.

**Wyoming's Conservation
Connection**

Elaine Sturgis, Coordinator
Box 3992 - University of Wyoming
Laramie, WY 82071
(307) 766-6383

Interconnections, network newsletter lists all outdoor education programs and workshops in Wyoming.

Publication is automatically sent to all teachers in the state.

U.S. Environmental Protection Agency

Public Information Center (PM-211B)
401 M St., SW
Washington, D.C. 20460

All materials listed below are FREE. Note: materials listed are achievable as of Winter 1991. Selection of materials changes periodically.

Public Information Center Publications List.

I Need the Earth and the Earth Needs Me (Grade 4) A curriculum for fourth graders. Package includes a videocassette and companion teacher's guide. General Motors provided the packages to all fourth grade teachers in spring 1990. Suggest checking school's library before requesting a package. Request must be on school letterhead.

Environmental Enforcement: A Citizen's Guide (grades 10-12). Booklet offers readers an understanding of how

environmental laws are enforced and how citizens can participate in the enforcement process.

Earth Trek...Explore Your Environment (Grades 3,4,5) Illustrated booklet describes measures to protect water, air and land, safe uses of toxic substances and pesticides, and federal environmental laws. Booklet's layout allows its contents, including student activities, to be duplicated.

Books for Young People on Environmental Issues (Grades K-12). A selected bibliography of published books on environmental issues, which are generally available at local public libraries.

President's Environmental Youth Awards (Grades K-12). Information on carrying out environmental projects that may earn regional and national awards for students. Brochure includes application.

Educators Earth Day Sourcebook (Grades K-6 and 7-12). Booklets on how to incorporate Earth Day into the classroom every day.

Don't Bug Me (Grades K-3). A pamphlet illustrating the safe use of pesticides. Includes pictures and captions.

Acid Rain: A Student's First Source Book (Teachers and students grades 4-8). Content explains what acid rain is, its impact on people, on natural and man-made materials, and resources. Tells what can and is being done to combat it. Book suggests classroom and individual activities and describes experiments students can perform. Glossary and bibliography complete the content.

Once There Lived a Wicked Dragon (Grades K-4). A story/coloring book about the need to protect the environment, and what the world would be like if we didn't.

Environmental Protection Agency

**US EPA Region 5
Office of Public Affairs
230 South Dearborn St.
Chicago, IL 60604**

Limited quantities of the following are available for residents in the six-state Region 5 area (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin).

The Happy Earth Day (Grades K-3). Coloring and activities book that informs children on simple ways to preserve and conserve.

Film brochure. Lists films available to educational and organized group audiences free of charge.

50 Ways to Make Your World a Better Place (Grades K-12). Poster lists common sense ideas to help protect and improve your home and community environment.

Lawn Care for Your Home (Grades 6-12). Provides homeowners with information on chemicals used in lawn maintenance either by individuals or lawn care services. Also included is a list of Region 5 State agencies which regulate pesticides in their states.

Our Air, Our Land, Our Water (Grades 6-12). Public report includes environmental accomplishments and focuses on several environmental problems that cannot be easily or quickly solved. This report also emphasizes public participation.

Welcome to the Wetlands (Grades K-12). Coloring poster explains how wetlands help us and what is a threat to wetlands. Included is information on animals, birds, fish and plants that thrive in wetlands.

Wood Preservatives for Consumers (Grades 6-12). Booklet explains wood preservatives and where treated wood is safely used and how to dispose of it.

The following materials are available to New York and Pennsylvania residents in addition to Region 5 residents.

The Great Lakes in My World (Grades K-8). Environmental Education curriculum that focuses on the Great Lakes.

The Great Lakes (Grades 6-12). An Environmental Atlas and Resource Book. The Atlas provides an understanding of the fragile and complex ecosystem of the Great Lakes. It traces the earliest settlers who began what became a massive urban and industrial growth. This was jointly produced by Environment Canada, U.S. EPA Great Lakes Nation Program Office, Brock University and Northwestern University.

Great Minds, Great Lakes Curriculum Sampler (Grades K-12). This is a companion piece to both *The Great Lakes in My World* and *The Great Lakes Environmental Atlas*.

International Joint Commission

**Information Services
Great Lakes Regional Office
P.O. Box 32869
Detroit, MI 48232-2869
(313) 226-2170**

Directory of Great Lakes Education Materials. More than 600 educators were surveyed to produce this FREE-for-the-requesting directory that contains information on

pamphlets, technical reports, booklets, videotapes, curriculum based and classroom-based materials for classes concentrating on Great Lakes studies.

Educational Opportunities For Teachers

Environmental Action Coalition

625 Broadway
New York, NY 10012
(212) 677-1601

A library for environmental topics is housed in the Coalition's New York office. It is open to the public.

However, please call first to arrange an appointment, since part-time staff must have preparation time.

Project Learning Tree

Caroline Dixon
American Forestry Council
1250 Connecticut Ave., NW
Suite 320
Washington, DC 20036

Project Learning Tree (K-12). Through state-sponsored workshops for teachers of students in grades K through 6 or 7 through 12, participants are trained and receive multi-disciplinary materials on forest resources, the interdependencies of the parts of the total forest

community, and the ethical, scientific, technological, social and aesthetic factors related to the interdependencies. Contact the Council for more information.

Project WILD

Cheryl Charles, Ph.D.
Project WILD
P.O. Box 18060
Boulder, CO 80308
(303) 444-2390

Project WILD is sponsored by the Western Regional Environmental Education Council. Its workshops prepare teachers to integrate wildlife and healthy environment concepts into core subject and skill areas. Workshop

participants receive activity guides as part of their training.

For information about **Project WILD** write to the address above.

**Science, Mathematics, And
Environmental Education
Analysis Center (SMEAC)**

Information Reference Center
Room 310
1200 Chambers Road
Columbus, OH 43212-1792
(614) 292-6717

This is a national Educational Resources Information
Center (ERIC) sponsored by the Department of Education.

Contact ERIC to obtain a list of available environmental
education publications.

Walt Disney World

Epcot Teacher's Center Kim Carlson
P. O. Box 10,000 EPCOT Outreach
Lake Buena Vista, FL Teacher's Center
32830

Epcot Teacher's Center at Walt Disney World provides a
place for visiting educators to explore Epcot Center's
educational experiences. Complimentary materials are
provided to visiting educators to assist them in bringing
Epcot Center's scientific themes into the classroom
curriculum. The Teacher's Center also showcases
educational media developed by Disney Education
Productions, including videotapes, multimedia kits,

filmstrips, and personal computer software. Information
is available on water conservation, pesticides, pest
management, and other environmental issues.
Complimentary study guides for various scientific subjects
are also available. Each guide is a complete instructional
unit with lesson plans, reading activities, worksheets, and
suggested follow-up activities for elementary, junior high,
and high school students.

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