It is with great pleasure that the Department of Environmental Quality presents the *Environmental Education Resources Directory: A Guide to Environmental Information and Educational Resources in Virginia*

We have cataloged a considerable amount of information on materials and services available to help you learn or teach about Virginia's environment. You will find nearly 300 educational resources listed in an easy-to-use format. An electronic version of the directory can be found on VA PEN, the Virginia Department of Education's electronic network for teachers. While this directory is designed to be used by educators, we hope it will be useful to the general public as well.

A variety of organizations were asked to contribute information on materials and programs available to Virginians about the Commonwealth's resources. These entries reflect their responses but do not represent all the environmental education resources that are available; many more references exist on national and international issues from various other groups.

Because this material comes from a broad range of sources, the value of the information must be left to the judgment of individual users. We hope readers will explore the diversity of references and approaches, and as they discover new resources, send them to us for inclusion in the directory, which will be updated periodically.

The directory was a collaborative project involving a number of state agencies and institutions who provided funding and other support: Virginia Institute of Marine Science/College of William and Mary, the Chesapeake Bay National Estuarine Research Reserve in Virginia, the Virginia Sea Grant College Program, the Department of Education, and the Department of Conservation and Recreation. In addition, the Virginia Environmental Endowment and the Virginia Resource-Use Education Council provided major funding.

We also thank all the agencies, organizations and individuals who submitted information and reviewed the directory. Without their help this project would not have been possible.

Today in Virginia and across the country, we face challenges in managing natural resources for the health and welfare of our citizens. These challenges can be met if public and private decision-making is informed by a full and reasoned understanding of the nature of resources, range of choices, and actual risks involved in addressing specific concerns, and by the application of the principles of science, including the science of economics. Success will depend on providing a healthy governmental and economic environment to foster and empower individual responsibility, private initiative and innovation. With this directory we hope to encourage the critical inquiry which must form the basis of stewardship efforts in the Commonwealth.
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This directory is a listing of some of the many environmental education resources available and is not an endorsement of any particular item. These materials may not reflect the opinions or policies of the Department of Environmental Quality. Educators should review all materials carefully to determine if appropriate for their audience.
How is the directory organized?

Entries are categorized by topic (e.g. air, water, waste), and are arranged alphabetically by type of product or service (e.g. awards, brochures, conference, etc.).

How is the information listed in each entry?

Sample entry

Conserving Soil (Title of material)

Available from:
John Marshall Soil and Water Conservation District

This materials packet contains a...

(Describes the material, including the author and/or producer, date, length, and the audience* for which the material is intended.)

Ordering instructions:
Available only to Fauquier County residents; call JMSWCD.

(Lists the source by acronym and ordering instructions including cost, if any.** Acronyms are listed in the first section of the directory.)

* Please note that many entries include materials more appropriate for adults than for K-12 students, but may be listed because a K-12 educator could learn from the materials and convey the information to students. Also, some resources listed as appropriate for adults would work as references for high school students.

** Some materials are from local and regional organizations serving a particular geographic area. However, most of these organizations have counterparts around the state (e.g. Soil and Water Conservation Districts, Litter Control Councils, etc.). Try contacting your local group for similar materials or services. And if there isn’t a local counterpart for the organization or service you’re looking for, why not start a group yourself?

What if I can’t find what I’m looking for?

If you can’t find what you’re looking for, either check the index or a related topic. For example, you might check marine and aquatic resources as well as water resources.

Also there are several collections of materials listed as single entries - what you want may be contained in one of them.

Finally, check the general Environmental Education or general Chesapeake Bay topics. There are a lot of resources listed under these broad topics because they cover a wide range of subjects and could not readily be categorized by any one topic.

How do I obtain materials of interest?

Look up the acronym for the source in the list of agencies, institutions and organizations, then call or write that group for more information. Remember, they might have other materials of interest not catalogued in this directory.

Might there be more than one source for materials?

Yes, there may be another source for some materials. Some resources were submitted for entry by their producer, and the producer is listed as the source, but another source (such as the Chesapeake Bay Lending Library) may have copies of what you are looking for. So when you call and a resource is out of stock or out on loan, ask if there’s another source for the material. Some items identify the producer in the description and you can always contact the original producer directly.

What if I’m interested in a particular product or service?

The index provides an alphabetical list of products and services, with the title and topic section noted.

How can I submit additional entries?

Send a copy of the material you would like listed in the directory or a complete description of the service you provide to the Department of Environment Quality, Division of Public Affairs, PO Box 10009, Richmond, VA 23240-0009.

The directory will be updated periodically. Corrections, additions, and deletions will be made routinely and posted on VA PEN, the Department of Education’s electronic network for educators. If you have access to VA PEN, please consult that file for the latest, most accurate version. Any suggestions are welcome.
ACB
Alliance for the Chesapeake Bay
P. O. Box 1981
Richmond VA 23216
(804) 775-0951

ANS
Audubon Naturalist Society
8940 Jones Mill Road
Chevy Chase MD 20815
(301) 652-9188

APPCO
Appalachian Power Company
P.O. Box 2021
Roanoke VA 24019
(703) 985-2353

AWWA
American Water Works Association
3629 George Washington Highway
Yorktown VA 23693
(804) 867-9171

BREN
Blue Ridge Environmental Network
P. O. Box 1623
Roanoke VA 24008
(703) 985-0808

BRPT
Blue Ridge Public Television
P. O. Box 13246
Roanoke VA 24032
(703) 344-0991

BRWS
The Blue Ridge Wildflower Society
P. O. Box 20385
Roanoke VA 24018

CBF
Chesapeake Bay Foundation
1001 E. Main Street, Suite 815
Richmond VA 23219
(804) 780-1392

CBNERR
Chesapeake Bay National Estuarine Research Reserve in Virginia
P. O. Box 1346
Gloucester Point VA 23062
(804) 642-7144

CBYCC
Chesapeake Bay Youth Conservation Corps
301 Albemarle Drive
Chesapeake VA 23320
(804) 436-8185

CEC
Citizens Environmental Council
522 Mountain Avenue
Roanoke VA 24016
(703) 343-8172

CFLC
Caroline Furnace Lutheran Camp and Retreat Center
HC 60 Box 3865
Fort Valley VA 22652
(703) 933-6266

CVC
Clean Valley Council
P. O. Box 3320
Roanoke VA 24015
(703) 345-5523

CHAS
Cape Henry Audubon Society
P. O. Box 1533
Norfolk VA 23501
(804) 622-0372

CSWCD
Colonial Soil and Water Conservation District
3302 Craggy Oak Court
Williamsburg VA 23188-1080
(804) 564-1870

CTFNFM
Citizens Task Force on National Forest Management
2753 Tanglewood Drive
Roanoke VA 24018
(703) 774-6690

DACS
Department of Agriculture and Consumer Services
P. O. Box 1163
Richmond VA 23219
(804) 786-2373

DCR
Department of Conservation and Recreation
203 Governor Street
Richmond VA 23219
(804) 371-7535
DEQ  
Department of Environmental Quality  
P.O. Box 10009  
Richmond VA 23240-0009  
(804) 762-4570

DGIF  
Department of Game and Inland Fisheries  
4010 West Broad Street  
Richmond VA 23230  
(804) 367-1000

DMME  
Department of Mines, Minerals, and Energy  
2201 West Broad Street  
Richmond VA 23220  
(800) 552-3831

DOF  
Department of Forestry  
P.O. Box 3758  
Charlottesville VA 22903  
(804) 977-6555

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

ENV  
Education Network of Virginia  
3421 Surrey Lane  
Falls Church VA 22042  
(703) 698-0487

EPA  
US Environmental Protection Agency  
Region III-Office of External Affairs  
841 Chestnut Building  
Philadelphia PA 19107  
(215) 597-9076

FSN  
Friends of the North Fork  
(Shenandoah River)  
P. O. Box 746  
Woodstock VA 22664

MF  
Maymont Foundation  
1700 Hampton Street  
Richmond VA 23220  
(804) 358-7166

FAS  
Fairfax Audubon Society  
P. O. Box 82  
Vienna VA 22183  
(703) 256-6895

MM  
Mariner's Museum  
100 Museum Drive  
Newport News VA 23606  
(804) 595-0368

FSS  
Friends of the Shenandoah River  
(South Fork)  
P. O. Box 410  
Front Royal VA 22630  
(703) 636-4948

MMZP  
Mill Mountain Zoological Park  
P.O. Box 13484  
Roanoke VA 24034  
(703) 343 3241

FEE  
Friendship Environmental Education  
P. O. Box 145  
Palmyra VA 22963  
(804) 589-8950

GEMS  
Great Explorations in Math and Science  
Lawrence Hall of Science  
University of California  
Berkley CA 94720  
(510) 642-7771

FOL  
Fauquier Outdoor Lab  
705 Waterloo Road  
Warrenton VA 22186  
(703) 347-2788

ICBS  
Institute for Chesapeake Bay Studies  
Rt. 1 Box 107  
Bowling Green VA 22427  
(804) 633-7249

FR  
Friends of the Rappahannock  
P. O. Box 7254  
Fredericksburg VA 22404  
(703) 373-3448

JMSWCD  
John Marshall Soil and Water Conservation District  
98 Alexandria Pike, Suite 31  
Warrenton VA 22186  
(703) 347-3120

FRM  
Friends of the Shenandoah River  
(South Fork)  
P. O. Box 410  
Front Royal VA 22630  
(703) 636-4948

JMO  
John Marshall Outdoor Lab  
P.O. Box 1750  
Roanoke VA 24008  
(703) 343-3696

MPNV  
Moving People of Northern Virginia  
310 N. Royal Street  
Alexandria VA 22314  
(703) 836-0925

FRO  
Friends of the Roanoke  
P. O. Box 1750  
Roanoke VA 24008  
(703) 343-3696

NABT  
National Association of Biology Teachers  
11250 Roger Bacon Drive, #19  
Reston VA 22090  
(703) 471-1134

MM  
Mariner's Museum  
100 Museum Drive  
Newport News VA 23606  
(804) 595-0368

NAIB  
National Aquarium in Baltimore  
Pier 3, 501 E. Pratt Street  
Baltimore MD 21202-3194  
(410) 576-3887
**Conservation Teacher of the Year Award**
Available from:
John Marshall Soil and Water Conservation District

This award recognizes an educator in Fauquier County who has demonstrated exceptional effort in teaching students about conservation-related topics. All grade levels are eligible.

**Ordering instructions:**
Contact JMSWCD for information on what types of projects are eligible.

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**Prince William County Litter Control Council Awards**
Available from:
Prince William County Litter Control Council

Awards for Youth of the Year, Ecology Club of the Year, and Environmental Educator of the Year honor excellence in environmental education in Prince William County.

**Ordering instructions:**
Call PWCLCC for information.

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**Excellence in Environmental Education Awards**
Available from:
U. S. Environmental Protection Agency - Region III

This award recognizes outstanding contributions to environmental education in EPA - Region III.

**Ordering instructions:**
Contact EPA for additional information.

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**Conservation Awards Program**
Available from:
Virginia Wildlife Federation

Individuals and groups are eligible for awards for accomplishments in conservation in Virginia. There are 14 categories of awards, including Youth Conservationist of the Year.

**Ordering instructions:**
Annual program information and nomination forms are available from VWF in July of each year.

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**Earthwatcher Award**
Available from:
Virginia Living Museum

Selected middle and secondary teachers in each of four regions of Virginia are awarded $1,000 each. Winners will have completed or have on-going class projects that help protect the environment, human health or species.

**Ordering instructions:**
Call VLM for an application.

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**Experimental Research and Design**
Available from:
Appalachian Power Company

Program designed for teachers, students and PTA groups to teach basic principles necessary for designing and implementing scientific research and experiments. Geared toward preparation for science fairs.

**Ordering instructions:**
Programs are available to school groups in Southwest Virginia. Call APCO to schedule or for list of current programs.

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**Children's Environmental Workshops**
Available from:
Audubon Naturalist Society

Classes and workshops (1-hour to 1-day) for elementary age students and teachers involve hands-on, outdoor, child-centered experiences.

**Ordering instructions:**
Contact ANS for list of programs available and scheduling information.

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**general environmental education**
**Children’s Environmental Workshops**

**Available from:**
Audubon Naturalist Society

Classes and workshops (1-hour to 1-day) for elementary age students and teachers involve hands-on, outdoor, child-centered experiences.

**Ordering instructions:**
Contact ANS for list of programs available and scheduling information.

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**Maymont Park Nature Center and Children’s Farm**

**Available from:**
Maymont Foundation

These hands-on programs use Maymont’s animals and grounds. Program concepts include senses, seasons, food chains, water quality, aquatic life, endangered species, plants, trees, and insects. Programs vary in length from 30 minutes to two hours.

**Ordering instructions:**
Contact MF; cost for programs varies from $8 - $30.

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**NatureQuest**

**Available from:**
National Wildlife Federation

This program provides participants with training, resources, and a model to develop an individualized nature program. The 3-day workshop trains camp program directors, outdoor and environmental educators, naturalists, and nature and science counselors. Sessions are available throughout the year.

**Ordering instructions:**
Contact NWF for descriptive brochure and registration information.

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**Environmental Education Program**

**Available from:**
Caroline Furnace Lutheran Camp

CFLC provides programs in 4 curricular areas and many subjects; single day and residential programs are available.

**Ordering instructions:**
Charges vary with length of program; contact CFLC to schedule.

---

**Teacher Workshops**

**Available from:**
National Aquarium in Baltimore

Schools or school districts can arrange half-day or full-day workshops for groups of 10 to 30 teachers. All workshops have conservation as part of the program; groups may choose from a list of established topics or arrange for a special topic.

**Ordering instructions:**
Contact NAIB; fees are $125 (half day) or $200 (full day), plus travel expenses.

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**Washington Action Workshop**

**Available from:**
National Wildlife Federation

This week-long conference, hosted by the Washington Action Workshop, is for citizens to learn about environmental issues and supporting environmental legislation.

**Ordering instructions:**
Contact NWF for additional information.

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**EARTHDAY Everyday Program**

**Available from:**
Science Museum of Western Virginia

A program for 5th - 6th graders that uses hands-on activities to discover some of the causes of pollution and how to stop it.

**Ordering Instructions:**
Call SMWV to schedule the program.

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**General Environmental Education**

9
**Environmental Programs**

*Available from:* The Mariners’ Museum

A variety of short programs are available for school groups. Titles include: “Camouflage and Survival,” “All the Same, But Different,” and “Warm Water = Pollution?”

*Ordering instructions:* Contact MM for scheduling information. Charges are $2.25 - $3.00 per student.

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**Educator In-Service Workshops**

*Available from:* The Wildlife Center of Virginia

These workshops provide teachers with practical techniques and ideas for incorporating environmental studies into their lesson plans. All participants receive a packet of information which includes activities and resource ideas.

*Ordering instructions:* Call WCV. A three-hour workshop costs $350 plus travel expenses.

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**Educator’s Environmental Institute**

*Available from:* Union Camp/Paul D. Camp Community College

A three-week environmental studies course designed for area educators. The course provides classroom materials, field trips, awards and credits for recertification.

*Ordering instructions:* Contact UC/PDCCC for course dates and application information.

---

**Teacher Training**

*Available from:* Virginia Living Museum

Offered in cooperation with Hampton University, this intensive two-week course for elementary and middle school teachers is a hands-on lab and field exploration of the natural world.

*Ordering instructions:* Call VLM for dates.

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**Outdoor Classroom**

*Available from:* Wilderness Conservancy at Mountain Lake

This environmental cross-curriculum program for teachers and students of all ages offers several programs on a variety of topics.

*Ordering instructions:* Contact WCML for program details and scheduling information.

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**Teacher/Adult Leader Training**

*Available from:* Virginia Cooperative Extension Service

Two- to six-hour workshops are available on a variety of environmental and nature education topics. Workshops can be designed to meet the needs of the group.

*Ordering instructions:* Contact local extension office or VCES. Travel reimbursement may be required from for-profit organizations. A minimum of 20 participants is required.

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**Natural Resource Workshops**

*Available from:* Virginia Resource-Use Education Council

These workshops offer training in environmental education teaching methods using curriculum supplements such as Project WILD, Project Learning Tree, Project WET, and Virginia’s State Parks... Your Backyard Classrooms.

*Ordering instructions:* Contact VRUEC for scheduling information. Workshops must be scheduled at least four weeks in advance; with more notice a workshop can be designed to meet specific needs.
### National Wildlife Week Kits
*
**Available from:**
Department of Game and Inland Fisheries

During Wildlife Week, kits are distributed to elementary and middle schools. The kits are produced by the National Wildlife Federation and contain an educators’ guide, a theme poster, a 12-picture poster, Wildlife Stamps, and a form for educators to request additional information about NWF’s educational programs.

**Ordering instructions:**
Kits are mailed in March to all Virginia public and private school libraries. For more information or additional kits please send a written request to DGIF.

### Aquarium School Program Booklets
*
**Available from:**
National Aquarium in Baltimore

These booklets complement current Aquarium school programs such as Sharks, Marshland Mysteries, and Coral Reefs.

**Ordering instructions:**
Contact NAIB for a complete listing of available titles and order form.

### NatureScope
*
**Available from:**
National Wildlife Federation

This activity series is designed to help K - 8 educators incorporate science and environmental education into their teaching. There are 18 topics in the series; each issue includes background information, hands-on activities, ready-to-copy activity sheets, a glossary, and a bibliography.

**Ordering instructions:**
Contact NWF to order. Each title may be purchased for $7.95 plus shipping, or the entire set is available for $99.

### Environmental Activity Boxes
*
**Available from:**
Prince William County Litter Control Council

This set of 8 boxes contains information and materials for hands-on lessons about litter and other environmental topics.

**Ordering instructions:**
Available for loan to Prince William County teachers only. Contact PWCLCC to reserve.

### Audubon Adventures
*
**Available from:**
Richmond Audubon Society

Subscribers receive a monthly package of classroom materials for elementary students (with teacher’s guide) on a variety of nature topics.

**Ordering instructions:**
An annual subscription is $30; contact RAS for ordering information.

### Teacher Assistance Kits
*
**Available from:**
U. S. Environmental Protection Agency - Region III

Kits are available to assist in environmental education promotional activities for K - 12 classrooms.

**Ordering instructions:**
Contact EPA for additional information.

### Center for Economic Education
*
**Available from:**
Virginia Tech -- Center for Economic Education

Workshops, graduate course and curriculum materials for K-12 educators on environmental economics are provided.

**Ordering instructions:**
Free as available. Contact VATECH/CEE.
**Naturalist Activities**

**Available from:**
Virginia's Explore Park

This set of 25 short activities for elementary and middle school students is designed to heighten the learner's awareness of the world outside a classroom. The activities are hands-on and use an interdisciplinary approach to learning.

**Ordering instructions:**
Contact VEP; the set costs $1.25.

---

**Student Conservation Association Grants**

**Available from:**
Richmond Audubon Society

RAS provides educational grants to university Student Conservation Association groups nationwide.

**Ordering instructions:**
Contact RAS for more information.

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**Environmental Education Grants**

**Available from:**
U.S. Environmental Protection Agency - Region III

The grants program assists local or tribal education agencies, colleges or universities, state education or environmental agencies, non-profit organizations, and non-commercial educational broadcasters to develop environmental education projects or programs.

**Ordering instructions:**
Contact EPA for information on submission of proposals.

---

**Virginia Mini-Grant Program**

**Available from:**
Virginia Environmental Endowment

Elementary and secondary schools and nonprofit, non-governmental organizations are eligible to apply for mini-grant awards of $1,000-$5,000 for projects that protect Virginia streams, rivers, wetlands, and waters of the Chesapeake Bay.

**Ordering instructions:**
Contact VEE for application guidelines. Deadlines for submissions are January 15, May 15 and September 15 each year.

---

**Arborfest**

**Available from:**
State Arboretum of Virginia

This annual (October) environmental event for adults and children has a different theme every year.

**Ordering instructions:**
Contact SAV for this year's date and theme.

---

**Environmental Issues Projects Grants**

**Available from:**
Virginia Foundation for the Humanities and Public Policy

Grants are awarded for a variety of projects that consider environmental issues from the perspective of the humanities.

**Ordering instructions:**
Contact VFHPP for guidelines and application materials.
Wildlife Exhibit

Available from: Virginia Wildlife Federation
These displays depict activities and services provided by VWF; they are suitable for events such as county fairs, Earth Day celebrations, and National Hunting and Fishing Day.

Ordering instructions: Contact VWF to schedule.

Long-distance Environmental Tours

Available from: Audubon Naturalist Society
ANS naturalists lead tours to sites of interest in the United States, Canada, and Central America.

Ordering instructions: Cost varies with trip; contact ANS for information.

Environmental Field Trips

Available from: Audubon Naturalist Society
Field trips (1-hour to 1-day) for adults to local and regional sites of environmental interest are available year-round.

Ordering instructions: Cost varies with program; contact ANS for list of programs and dates.

Rappahannock River Views

Available from: Friends of the Rappahannock
A variety of field trips are available including seasonal wildflower walks, historic walks, and tours of the Rappahannock canal system.

Ordering instructions: Call FR for calendar of events; special program requests must be submitted one month in advance. Fees vary. Weekend and evening programs are available throughout the year; weekday programs are only available during the summer months.

Maymont Foundation Field Trips

Available from: Maymont Foundation
Maymont is a 100-acre Victorian estate in Richmond with a museum, formal gardens, native wildlife exhibits, nature center, carriage collection, and children’s farm.

Ordering instructions: Tours can be scheduled Tuesday through Friday. Length of tour and price per person varies with type of tour requested. Contact MF for details.

Conservation Summits

Available from: National Wildlife Federation
These week-long summer adventures for all ages and groups include guided field trips, wildlife workshops, environmental issues classes, and outdoor activities.

Ordering instructions: Contact NWF for informative brochure.
The Mountain Laurel Trail
Available from:
National Wildlife Federation
The Mountain Laurel Trail is located at NWF’s Laurel Ridge Conservation Education Center in northern Virginia. The self-guiding trail provides an opportunity to study the plants and animals of northern Virginia in their natural environments.

Ordering instructions:
The handicapped-accessible trail is open to the public daily from sunrise to sunset. Contact NWF for additional information on scheduled activities.

Educational Programs
Available from:
Roanoke County Parks and Recreation Outdoor Education
RCPR provides a variety of adventure and educational programs and trips to groups of all ages in the Roanoke Valley and the surrounding area.

Ordering instructions:
Contact RCPR for a brochure describing complete program offerings.

Natural History Field Trips
Available from:
Virginia Museum of Natural History
Museum staff conduct field trips to places of natural history interest around Virginia.

Ordering instructions:
Fees vary. Contact VMNH for a list of current programs and registration information.

Interdisciplinary Field Trips
Available from.
Virginia’s Explore Park
Interpretive programs are offered on a variety of subjects, including historic building construction methods, Appalachian music, homesteading in western Virginia, Virginia wildlife, and forestry practices.

Ordering instructions:
Because programs are designed to fit the needs of visiting groups, call VEP at least two weeks in advance of visit. Visitors are charged $1.50 per person.

Greater Rappahannock Environmental Education Network
Available from:
Friends of the Rappahannock
GREEN is a regional resource and advisory council for the development, planning, and implementation of environmental education programs and projects for teachers.

Ordering instructions:
The Hotline phone number changes annually; contact VEN for the current number.

Interdisciplinary Field Trips
Available from:
Virginia’s Explore Park
Interpretive programs are offered on a variety of subjects, including historic building construction methods, Appalachian music, homesteading in western Virginia, Virginia wildlife, and forestry practices.

Ordering instructions:
Because programs are designed to fit the needs of visiting groups, call VEP at least two weeks in advance of visit. Visitors are charged $1.50 per person.

Resource Clearinghouse
Available from:
U. S. Environmental Protection Agency - Region III
EPA is a clearinghouse for national environmental education resources.

Ordering instructions:
Contact EPA for information.
The Potomac Flier

Available from:
Fairfax Audubon Society

This newsletter is published 8 times during the year about the activities of FAS and regional environmental news.

Ordering instructions:
Contact FAS; non-members are charged an annual subscription fee of $10.

News and Views

Available from:
National Association of Biology Teachers

This publication of NABT is issued five times a year, with news of awards, grants, resources, opportunities, programs, and events of interest to biology educators.

Ordering instructions:
Distributed to members of NABT (dues $40/yr). Will exchange newsletter at no cost with other appropriate organizations.

ECO

Available from:
Prince William County Litter Control Council

This monthly newsletter for Prince William County Ecology Clubs contains environmental information, activities, and ideas for clubs.

Ordering instructions:
Contact PWCLCC; an annual subscription costs $5.

Au Naturel

Available from:
Virginia Museum of Natural History

This quarterly newsletter lists museum exhibits and educational programs.

Ordering instructions:
Free to VMNH members; call for membership information.

The Federation Record

Available from:
Virginia Wildlife Federation

This newsletter of the Virginia Wildlife Federation is published bimonthly.

Ordering instructions:
The newsletter is provided to members of VWF (annual membership $25); contact VWF for membership information. Bulk distribution is available on a one-time basis to educational groups.

Virginia Explorer

Available from:
Virginia Museum of Natural History

This quarterly natural history magazine is written for the general public.

Ordering instructions:
Free to VMNH members (call for membership information). Organizations may subscribe for $12 annually.

Explorations

Available from:
Virginia's Explore Park

This quarterly newsletter describes events and programs at VEP. The newsletter also updates the general public on the process of construction as the park nears its 1994 grand opening.

Ordering instructions:
Contact VEP to be placed on the mailing list.
Environmental Education Program

Available from:
Department of Game and Inland Fisheries

This folder of educational literature describes practices that promote sound land use and encourage wildlife habitat restoration. The materials are useful for landowners, homeowners, or civic groups.

Ordering instructions:
Contact DGIF for folder.

Group Presentations

Available from:
John Marshall Soil and Water Conservation District

A limited number of presentations for school and community groups are available. Priority is given to topics related to water quality, agricultural conservation, and urban erosion concerns. Equipment demonstrations may be available (converting yard debris to mulch with a chipper-shredder, covering old newspapers to animal bedding with a bedding chopper).

Ordering instructions:
No charge; schedule at least three months in advance.

Arboretum Speakers Bureau

Available from:
State Arboretum of Virginia

Staff are available to speak on a variety of environmental topics.

Ordering instructions:
Call early for reservations. Travel reimbursement may be required for long distances.

Speakers Bureau

Available from:
Versar, Inc.

Speakers are available on a variety of environmental topics. Versar is an environmental consulting firm in northern Virginia.

Ordering instructions:
Contact VI for a list of available topics and scheduling information.

Arboretum Speakers Bureau

Available from:
State Arboretum of Virginia

Speakers are available for presentations on a variety of environmental topics for high school groups in the Richmond metropolitan area.

Ordering instructions:
Contact VCU - OES for scheduling information; several weeks advance notice is required.

The Bay Team

Available from:
Virginia Institute of Marine Science

Two experienced classroom teachers travel throughout Virginia demonstrating exemplary environmental education teaching methods. The lessons are appropriate for all grade levels.

Ordering instructions:
Contact VIMS to request a brochure and registration form.

Speakers Bureau

Available from:
Virginia’s Explore Park

Speakers are available for presentations to groups of all ages on a variety of topics including endangered species, historic issues, land use, and biodiversity.

Ordering instructions:
Contact VEP; groups must pay travel expenses of speaker.
Blue Ridge Environmental Network

Available from:
Blue Ridge Environmental Network
This 21-page directory of environmentally active organizations in Roanoke and the surrounding area includes descriptions of groups as well as a listing of current activities of each group.

Ordering instructions:
Contact BREN. No charge, but donations are appreciated.

John Marshall SWCD Annual Report

Available from:
John Marshall Soil and Water Conservation District
This annual report booklet details all programs that the district has assisted with or conducted throughout the year and provides insight into the workings of an SWCD.

Ordering instructions:
Fauquier County residents may contact JMSWCD to receive a copy.

Conservation Directory

Available from:
National Wildlife Federation
This annual publication of NWF is an up-to-date, detailed resource for information on environmental conservation, education, legislation, and natural resource management.

Ordering instructions:
Available for $18 plus shipping from NWF.

Virginia Environmental Voting Summary

Available from:
Virginia Environmental Network
This publication lists General Assembly members’ votes on key environmental bills; two editions (1991, 1992) are available.

Ordering instructions:
No charge; contact VEN for a copy.

Earth Day Guide: How to Plan, Publicize, and Produce an Earth Day celebration

Available from:
Maymont Foundation
This resource guide is complete with sample letters, activities, and photographs designed to help individuals plan, produce, and publicize an Earth Day celebration.

Ordering instructions:
No charge; call MF.

Environmental Educator’s Resource Guide

Available from:
Prince William County Litter Control Council
The guide is a binder of resources, activities, and information for use in teaching about the environment.

Ordering instructions:
Contact PWCLCC for ordering information; cost is $50. All Prince William County schools and public libraries have a copy.
Earth Day Every Day - You Can Make a Difference!

**Available from:**
National Wildlife Federation
This 15-minute filmstrip for elementary and middle school students shows how to celebrate Earth Day every day by making wise environmental choices.

**Ordering instructions:**
Available for $5 from NWF. Also available as a slide set.

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Public Service Announcements on Pollution Prevention

**Available from:**
Versar, Inc.
Seven PSAs are available which are suitable for television use. Subjects include environmental data, educating kids, windpower, and pesticide-free farming.

**Ordering instructions:**
No charge; contact VI to order.

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In Partnership With Earth

**Available from:**
Versar, Inc.
A 58-minute video featuring John Denver and former EPA Administrator Bill Reilly that discusses pollution prevention and recycling, and how different groups are responding to this challenge.

**Ordering instructions:**
Can be purchased from VI for $40 plus $4 postage, or rented for $20.

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A/V Library

**Available from:**
Virginia Cooperative Extension Service
Videos and slide/tape sets are available on a variety of nature and environmental topics.

**Ordering instructions:**
Contact local extension office. Requests must be made at least three weeks in advance, and materials can be borrowed for one week. No charge for use of the materials, although borrower must pay return postage.

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Voices of Vision: The Future of Virginia’s Environment

**Available from:**
Virginia Water Resources Research Center
This 17-minute video focuses on some of Virginia’s greatest environmental challenges: water use, land use, waste management, and protecting the Chesapeake Bay.

**Ordering instructions:**
May be borrowed from VWRRC for a 15-day period; no charge.
Boy Scout Field Day

Available from:
Colonial Soil and Water Conservation District

The annual Boy Scout Field Day at Camp Chickahominy is an environmental event where Scouts learn the importance of soil and water conservation. They can continue on their own to obtain their Soil and Water Conservation Merit Badge.

Ordering instructions:
Contact CSWCD; charge is $2.50 per person.

Friendship Environmental Education

Available from:
Friendship Environmental Education

One- to five-day programs for students and educators are available at a 700-acre "classroom" for ecology studies along the Rivanna River.

Ordering instructions:
Call (800) 873-3223. Rates are variable, depending on length of stay, accommodations, and programming. A typical 3-day program costs approximately $65 per student. Teacher workshops are free.

Summer Discovery Series

Available from:
Maymont Foundation

This children's nature camp uses Maymont's grounds, animals, and exhibits as a living laboratory. The program includes live animal study, aquatic collecting, and nature hikes. Sessions are mornings from June through August; length of sessions vary.

Ordering instructions:
Call MF for details; cost is $10 - $75, depending on length of session.

Wildlife Camp

Available from:
National Wildlife Federation

This program is an opportunity for kids ages 9 - 13 to gain environmental knowledge and skills for living in the out-of-doors through a blend of nature study, games, hiking, swimming, and exploring.

Ordering instructions:
Contact NWF for informative brochure.

Youth and Family Programs

Available from:
Virginia Living Museum

A wide variety of programs are available for children and families after school, on weekends and in the summer. Topics vary seasonally and include nature study, science expeditions, activities and field trips to interesting sites.

Ordering instructions:
Call the VLM for a current copy of program guide, Adventurer. Fees vary. Members receive early notices of program offerings and discounts.

Teen Adventure

Available from:
National Wildlife Federation

This program allows kids ages 14 - 17 to discover nature by hiking and backpacking in wilderness areas and participating in daily nature awareness activities.

Ordering instructions:
Contact NWF for informative brochure.
EnviroAdventures

Available from:

Virginia Wildlife Federation

These environmental summer camp programs for students ages 15 - 17 provide outdoor educational activities that involve the participants in exploring and learning about the natural world and the value of its resources.

Ordering instructions:
Contact VWF for additional information and an application.

Environmental Education Program

Available from:

Westview on the James

Hands-on learning takes place in a 780-acre outdoor laboratory setting. Topics for study include aquatic ecology, limnology, biology, ecology, and chemistry. Programs are geared for groups of 30.

Ordering instructions:
Contact WJ for scheduling information. A four-hour program costs $5 per participant plus a $60 instructor fee.
**Acid Rain Reader**

*Available from:*
The Acid Rain Foundation

Provides a general overview and glossary on acid rain. Can be used independently or in conjunction with interdisciplinary curriculum. For grades 4-8.

*Ordering instructions:*
Single copies available for $2.50 each plus $3.50 shipping. Classroom set of 25 copies is $45.95 plus $6.00 shipping. Other materials are available; contact TARF for an order form.

**Moving People**

*Available from:*
Moving People of Northern Virginia

This bimonthly newsletter features information on the Washington regional effort to meet the federal clean air standards.

*Ordering instructions:*
Contact MPNV; an annual subscription costs $5.

**Speakers Bureau**

*Available from:*
Commonwealth Gas

Staff from CG, a natural gas utility, are available to speak to groups on energy and air quality.

*Ordering instructions:*
Contact a local CG office in Richmond, Petersburg, South Hill, Portsmouth, Lynchburg, Staunton, Harrisonburg, Lexington, Covington, Manassas, Fredericksburg, Culpeper or Warrenton.

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**Our Blanket of Air**

*Available from:*
Virginia’s Explore Park

Six pages of hands-on activities for elementary school students teach an understanding of life’s dependence upon air.

*Ordering instructions:*
No charge; contact VEP
Natural Gas and the Environment

Available from:
Commonwealth Gas

This poster, suitable for middle and high school students, shows ways in which natural gas is used and how it benefits air quality.

Ordering instructions:
Free -- one per classroom. Contact a local CG office in Richmond, Petersburg, South Hill, Portsmouth, Lynchburg, Staunton, Harrisonburg, Lexington, Covington, Manassas, Fredericksburg, Culpeper or Warrenton.

Let's Clear the Air

Available from:
National Wildlife Federation

This 15-minute filmstrip for elementary and middle school students explains what causes air pollution and describes what is being done to control it. It also explains the problem of acid rain.

Ordering instructions:
Available from NWF for $5. Also available as a slide set.

The Road to Clean Air

Available from:
Commonwealth Gas

This 10-minute video, suitable for general public and middle and high school students, shows ways in which natural gas is used and how it benefits air quality.

Ordering instructions:
Free rental. Contact a local CG office in Richmond, Petersburg, South Hill, Portsmouth, Lynchburg, Staunton, Harrisonburg, Lexington, Covington, Manassas, Fredericksburg, Culpeper or Warrenton.
**Project WILD**

**Available from:**
Department of Game and Inland Fisheries

This multidisciplinary wildlife education program is designed for K-12 classroom teachers and non-formal educators. The materials consist of two activity guides made available during teacher workshops.

**Ordering instructions:**
Contact DGIF for information on a workshop in your area.

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**Recreational Angling Instructor Course**

**Available from:**
Department of Game and Inland Fisheries

During this 8- to 12-hour workshop for educators, participants learn basic freshwater angling and ecology. They are also provided with the Aquatic Resource Education Curriculum and taught how to use it in developing classroom lessons.

**Ordering instructions:**
Contact DGIF for additional information.

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**Zoopack**

**Available from:**
Virginia Zoological Society

This 12-page full-color teacher’s guide to the zoo provides on-site information as well as classroom activities for elementary age students.

**Ordering instructions:**
No charge; contact VZS.

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**Wildlife Exhibit**

**Available from:**
The Wildlife Center of Virginia

This traveling exhibit consists of an environmental pictorial display and staff handlers with unreleasable wild animals.

**Ordering instructions:**
Schedule with WCV at least 8 weeks in advance, as staffing is limited.

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**Natural History Exhibits Program**

**Available from:**
Virginia Museum of Natural History

Interactive and educationally effective traveling exhibits.

**Ordering instructions:**
Call VMNH for a complete listing of exhibits. Fees vary ($200 - $1000).
Zoo Tours
Available from:
Mill Mountain Zoological Park
Self-guided tours through zoo exhibits (consisting of domestic and exotic species) are available. Occasionally it is possible to arrange for a docent or a live animal program.

Ordering instructions:
Fees vary with time of year; reservations with MMZP are necessary for groups of ten or more.

Site Tours
Available from:
National Fisheries Research Center
This 400-acre facility is a center for fisheries research. Exhibits open to the public include: displays depicting the importance of fish and water to humans; pools with live fish; and nature trails.

Ordering instructions:
Contact NFRC to arrange a visit.

Birdwalks
Available from:
Richmond Audubon Society
RAS conducts birding field trips in the Richmond area.

Ordering instructions:
Contact RAS for additional information.

Aquarium Tours
Available from:
Virginia Institute of Marine Science
The VIMS Aquarium focuses on York River and Chesapeake Bay species and habitats. Specific exhibits are being developed which will highlight research in progress at the Institute. Tours are primarily self-directed and self-guided.

Ordering instructions:
Visits must be pre-arranged; group size is limited to 30. Please contact VIMS to schedule; no charge, but must make reservations at least six weeks in advance.

Natural Science Surveys
Available from:
Virginia Living Museum
These 45-minute museum programs for K-5th graders introduce various life sciences topics -- animal adaptations, food webs, predation.

Ordering instructions:
Call the Reservations Coordinator at VLM. $3.50 per student; certain area schools (ADM contract) are free.

Site Tours
Available from:
Virginia Museum of Natural History
VMNH offers tours of the exhibit halls during regular hours for groups of all ages and abilities. Exhibits focus on current research in natural history and environmental issues.

Ordering instructions:
Admission is free. Call VMNH in advance to arrange for a program or a docent.

FOCUS
Available from:
Virginia Zoological Society
45-minute presentations are available for elementary age groups on various topics with live animals and biofacts.

Ordering instructions:
Contact VZS; must schedule at least four weeks in advance. Fees are $1 per student plus zoo admission.
The Naturalist News
Available from:
Audubon Naturalist Society
This monthly 24-page newspaper covers local and regional environmental issues and includes book reviews and original articles.
Ordering instructions:
Provided to ANS members; contact ANS for membership information.

Trout Unlimited
Available from:
Trout Unlimited
This organization provides a variety of educational services and programs about America’s coldwater fisheries.
Ordering instructions:
Contact TU for information on membership and other services.

Richmond Audubon Society Newsletter
Available from:
Richmond Audubon Society
This newsletter covers issues of interest to the Richmond Audubon Society.
Ordering instructions:
Contact RAS; subscriptions are $23.

Where Have All the Bluebirds Gone?
Available from:
Fauquier Outdoor Lab
This 45-minute lecture (with slides) is about the life history of bluebirds, causes of population decline, and what must be done to help.
Ordering instructions:
Contact FOL; charge is $45 plus travel expenses.

Outreach Programs
Available from:
National Aquarium in Baltimore
NAIB offers 1-hour to 1-day programs on marine animals and habitat for groups of all ages. Trained naturalists will travel throughout Maryland and Northern Virginia.
Ordering instructions:
Costs vary with length of program and distance traveled. Contact NAIB for details and to schedule programs.

Audubon Speakers
Available from:
Richmond Audubon Society
Speakers are available to groups in the Greater Richmond area for presentation on several environmental issues.
Ordering instructions:
No charge; contact RAS.

Outreach Program
Available from:
Mill Mountain Zoological Park
Zoo staff are available to speak on a variety of topics such as mammals, reptiles, birds of prey, and backyard habitats. Programs are usually accompanied by curriculum guides.
Ordering instructions:
Fees range from $35 to $100 depending on distance traveled, group size, and time of program. Contact MMZP.
**Environmental Education Outreach Programs**

**Wildlife Speakers**
**Available from:**
Virginia Wildlife Federation
Speakers are available statewide to discuss the activities of VWF and various environmental topics.

**Ordering instructions:**
Contact VWF; requests will be referred to the appropriate district organization.

**Chesapeake Bay Marine Lab**
**Available from:**
Virginia Marine Science Museum
The traveling Marine Lab is a 26-foot truck equipped with functioning aquaria and touch tanks that bring the Chesapeake Bay to your doorstep.

**Ordering instructions:**
Contact VMSM; fees vary with program.

**Common Saltwater Sportfish of Virginia**
**Available from:**
Department of Game and Inland Fisheries
This full color poster features 24 of Virginia’s common saltwater sportfish.

**Ordering instructions:**
Send DGIF a check for $8 (payable to “Treasurer of Virginia”); quantities are available at a discount.

**Roanoke Logperch**
**Available from:**
Friends of the Roanoke
This poster is a color photograph of an underwater scene featuring the endangered Roanoke River Logperch.

**Ordering instructions:**
Available from FRO for $3 plus $1.50 shipping.

**Common Freshwater Fish of Virginia**
**Available from:**
Department of Game and Inland Fisheries
This poster (with identification key) features 23 common freshwater fish of Virginia.

**Ordering instructions:**
Send DGIF a check for $8 (payable to “Treasurer of Virginia”); quantities are available at a discount.

**animals**
**Informational Pamphlets**

*Available from:*

Audubon Naturalist Society

Several pamphlets are available on topics related to birding; titles include “Waterfowl Migration in the Chesapeake Bay Region,” “The Care and Feeding of Baby Birds,” and “Nest Boxes for the Birds in Your Backyard.”

*Ordering instructions.*

No charge; contact ANS.

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**Endangered Species Blueprint**

*Available from:*

National Wilderness Institute

A four-color summary report of how the federal endangered and threatened species program works, including many policy aspects--listing, recovery, costs and delisting. Report is focused on program effectiveness and cost to taxpayers.

*Ordering instructions:*

Price is $15.00. Contact NWI for information on other natural resource topics.

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**Chadwick Forever**

*Available from:*

Watershed Initiative/The Tides Foundation

This is the latest in the popular “Chadwick the Crab” series of children’s books by Priscilla Cummings. Chadwick and his friends meet and learn about endangered species.

*Ordering instructions:*

Available from WUTF for $8.95; educational discounts are available.

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**Is Aetosaur a Dinosaur?**

*Available from:*

Virginia Museum of Natural History

This children’s book is based on dinosaur tracks found in Culpeper, Virginia.

*Ordering instructions:*

Available from VMNH for $11.95 plus $1.50 shipping.

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**Discover Wildlife in Your World**

*Available from:*

National Wildlife Federation

This 10-minute filmstrip for elementary and middle school students is filled with tips and ideas for discovering and attracting wildlife in urban, suburban, and rural settings.

*Ordering instructions:*

Contact NWF for information.

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**We Care About Eagles**

*Available from:*

National Wildlife Federation

This 15-minute filmstrip for elementary and middle school students offers a close look at eagles and the environmental problems that have threatened some species. Discover how conservationists are trying to solve these problems.

*Ordering instructions:*

Available from NWF for $5. Also available as a slide set.
**Predators! They're Part of the Picture**

Available from:
National Wildlife Federation

This 15-minute filmstrip for elementary and middle school students shows the power and beauty of predators. Predators are often surrounded by misconceptions.

**Ordering instructions:**
Available from NWF for $5; also available as a slide set.

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**A Question of Balance: Protecting Virginia’s Endangered Species**

Available from:
Department of Agriculture and Consumer Services

This 16-minute video discusses the relationship between pesticides and Virginia’s endangered plants, animals, birds, and aquatic creatures.

**Ordering instructions:**
Contact DACS; can be borrowed for up to three weeks.

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**Birds Slide Show**

Available from:
Richmond Audubon Society

A slide program about birds is available for elementary students in Richmond and surrounding counties.

**Ordering instructions:**
Contact RAS for scheduling information.

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**Wildlife Internship Program**

Available from:
Mill Mountain Zoological Park

A number of volunteer opportunities which provide a close look at wildlife management are available.

**Ordering instructions:**
Contact MMZP for volunteer program brochure.

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**Summer Safari**

Available from:
Virginia Zoological Society

The 7-week day camp for elementary age students at the zoo involves visits with animals, behind-the-scenes tours, games, songs, and crafts.

**Ordering instructions:**
Children must have completed kindergarten. Fees vary ($50 - $100); contact VZS for registration information.
Global Warming and the Greenhouse Effect

Available from:
Great Explorations in Math and Science
A collection of eight activities for grades 7-10 that help students explore this current topic. Includes activities such as building a model of the atmosphere, comparing the amounts of CO2 in car exhaust, and analyzing articles with different viewpoints.

Ordering instructions:
Cost is $11.00 plus $1.50 shipping. Quantity discounts available. Call GEMS for order form.

Educational Services Catalog

Available from:
National Geographic Society
This annual catalog lists dozens of books, films, videos, learning kits, maps, games and software suitable for teaching preK - 12 and adult science, math, geography, social studies, and language arts. A wide variety of topics are covered including specific biomes, ecosystems and migratory species.

Ordering instructions:
Catalog is free from NGS; prices for products vary. Films and videos can be previewed and rented for educational uses.

Rain Forests: Tropical Treasures

Available from:
National Wildlife Federation
This activity guide is one unit in the NatureScope series designed to help K-8 educators incorporate science and environmental education into their teaching. The guide includes background information, hands-on activities, ready-to-copy activity sheets, a glossary, and a bibliography. It also includes a list of places to visit to see rain forest exhibits.

Ordering instructions:
Contact NWF to order. The unit is $7.95 plus shipping or the entire 18 volume set is available for $99.

Connections

Available from:
Population Reference Bureau

Ordering instructions:
The complete kit is $13.00 Additional copies of the Student Resource Book are $8.00 each and data sheets are $3.00 each. Orders under $50.00 must be prepaid with a $1.00 or 3% (whichever is greater) shipping fee.
**Teacher’s Guide to World Resources 1992-93**

Available from: World Resources Institute

This 130-page handbook for high school science, geography and social studies teachers, is a companion to the World Resources 1992-93 book. The book contains the latest information on essential economic, population and natural resource conditions and trends for 153 countries. The teacher’s guide contains step-by-step lesson plans, reproducible handouts, transparency masters and reading lists for teaching about sustainable development, watershed pollution, deforestation, biodiversity, population growth, poverty, and pollution.

**Ordering instructions:**
The teacher’s guide is $5.95 and the reference book is $19.95. A 20% discount is available to secondary faculty. Other materials are also available; contact WRI for a free publications catalog.

**Global Ecology Study Trips**

Available from: Friendship Environmental Education

Naturalist-led study trips to Belize or the Galapagos take place in July or August and are appropriate for ages 13 or older.

**Ordering instructions:**
Call (800) 873-3223. Costs range from $1,500 to $2,700.

**Sea Level Rise**

Available from: UCAR Office for Interdisciplinary Earth Studies

One in a series of publications on climate and globals change for public education produced by NOAA and UCAR. The reports are written by knowledgeable scientists and science writers.

**Ordering instructions:**
Contact UCAR for a copy.

**Fragile Earth**

Available from: NASA Central Operation of Resources for Teachers.

Slide set focuses on the conditions which affect Earth's crust, waters, and atmosphere. Photos and satellite images illustrate how nature and people have changed Earth. Produced by the Smithsonian Institution.

**Ordering instructions:**
Submit a written request to NASA CORE on school letterhead for a catalog and order form. Cost is $8.50 plus $2.00 shipping.
Mission to Planet Earth

Available from:
NASA Central Operation of Resources for Teachers

This videotape features presentations by scientists describing ongoing NASA research, along with activities for the classroom use.

Ordering instructions:
Submit a written request to NASA CORE on school letterhead for a catalog and order form; copies are $21.00 each plus $3.50 for shipping.

Spaceship Earth: A Global Geography

Available from:
South Carolina Educational TV

This set of 10 30-minute programs uses satellite images from space and from the ground to explore and explain the interaction of Earth’s dynamic human and physical systems. Each segment can be used independently. An instructor’s guide and a viewer’s guide are also available.

Ordering instructions:
Each tape in the series costs $39.95 plus $2.50 shipping; the entire set may be purchased for $300 plus $10 shipping. The instructor’s guide and the viewer’s guide are available for $5 per copy. Contact SCETV for additional information and an order form.
Educational Programs

Available from:
Chesapeake Bay National Estuarine Research Reserve

Training programs are available for middle and high school teachers in using the Oceanography Forum on Learning Link. Workshops and programs on other topics are being developed.

Ordering instructions:
Contact CBNERR for scheduling information.

Chesapeake Bay Invertebrate Lab

Available from:
Science Museum of Western Virginia

A program for 1st - 7th graders that uses live and preserved specimens from the museum’s touch tank to illustrate the unique Chesapeake Bay ecosystem. Pollution problems and solutions are also discussed.

Ordering instructions:
Call SMWV to schedule the program.

Celebrate the Chesapeake Bay

Available from:
The Mariners’ Museum

A wide variety of educational programs about the Chesapeake Bay are available for groups of all ages.

Ordering instructions:
Contact MM for fees and scheduling information.

Chesapeake Bay Watershed

Available from:
USFWS Chesapeake Bay Field Office

This teacher in-service training on the Bay and associated watershed includes an overview of the geology, geography, and natural history of the watershed with an emphasis on showing how stewardship of the land relates to cleaner waterways. The program is available to groups of 12 to 25; participants will receive free teaching materials.

Ordering instructions:
No charge; contact USFWS/CBFO to schedule.

4-H Chesapeake Bay Projects

Available from:
Virginia Cooperative Extension Service

These three units are for middle school students on Chesapeake Bay issues (soil erosion, nutrients, and underwater plants).

Ordering instructions:
Contact local extension office/4-H agent.

Chesapeake Bay Teaching Materials Lending Library

Available from:
Virginia Institute of Marine Science

This collection contains over 100 videos, software packages, activity guides, and other aids for teaching about the Bay and other environmental issues.

Ordering instructions:
Contact VIMS to request a catalog of materials.

Estuaries Day

Available from:
Chesapeake Bay National Estuarine Research Reserve

This festival, held annually on the third Saturday in September, celebrates coastal environments and resources. The day-long event is held at York River State Park and features river cruises, games, canoe trips, and exhibits with estuarine and environmental themes. Appropriate for all ages.

Ordering instructions:
Contact CBNERR for additional information.
**Traveling Exhibit**

*Available from:*
Alliance for the Chesapeake Bay

This exhibit about the activities of ACB includes a tri-fold display, slide show, and copies of ACB publications and is available with staff for fairs and meetings.

*Ordering instructions:*
Available at no cost from ACB; please schedule several weeks in advance.

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**Bill Portlock Field Studies**

*Available from:*
Bill Portlock

Field studies can be arranged for school or other groups; topics can include Chesapeake Bay ecology, marsh ecology, ornithology, and general environmental education.

*Ordering instructions:*
Contact BPFS to specify details. Daily fee is $300; mileage is charged for travel to sites more than 50 miles from Bowling Green.

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**Research and Education for Virginia's Estuaries**

*Available from:*
Chesapeake Bay National Estuarine Research Reserve

This traveling exhibit describes the Reserve’s research, monitoring, education, and volunteer efforts.

*Ordering instructions:*
Contact CBNERR to schedule. Must schedule for at least two weeks.

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**Taskinas Creek Field Trips**

*Available from:*
Chesapeake Bay National Estuarine Research Reserve

Taskinas Creek, a CBNERR site within York River State Park, is open to school groups. Teachers are responsible for programming and activities.

*Ordering instructions:*
Contact CBNERR to arrange a visit.

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**Chesapeake Bay: A Way of Life**

*Available from:*
The Mariners’ Museum

This one-day study program of the Bay includes a Museum visit, an environmental study, and an exploration of Hampton Roads Harbor.

*Ordering instructions:*
Contact MM for scheduling information; the program costs $17.50 per student.

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**Virginia Marine Science Museum**

*Available from:*
Virginia Marine Science Museum

This facility houses 100,000 gallons of fresh and salt water aquaria and numerous hands-on exhibits designed to involve the visitor in every aspect of the state’s marine environment.

*Ordering instructions:*
Contact VMSM for information about fees and group reservations. A membership program is also available.

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**York River Cruises**

*Available from:*
Watermen’s Museum

1 1/2-hour cruises aboard a 42-foot Chesapeake deadrise highlight ways the York River has been used by watermen and the methods used to harvest its products.

*Ordering instructions:*
Contact WM to schedule; the cruise costs $7.50 per passenger.
Chesapeake Regional Information Service

Available from:
Alliance for the Chesapeake Bay
This regional hotline provides information about the Chesapeake Bay restoration effort. Callers can listen to recorded information about Bay news, request printed information, or speak directly with the CRIS Director for answers to specific questions.

Ordering instructions:
Call (800) 662-CRIS from a touch-tone phone.

Bay Journal

Available from:
Alliance for the Chesapeake Bay
This newsletter, a public education service of the Chesapeake Bay Program, is intended to inform the public about issues and events that affect the Chesapeake Bay and to expose readers to ways in which they may help preserve and protect the Chesapeake Bay.

Ordering instructions:
Free; contact ACB for ordering information.

Bay Watcher Bulletin

Available from:
Chesapeake Bay Foundation
This newsletter provides information on the active corps of CBF volunteers known as Bay Watchers and focuses on legislative issues, citizen involvement, and conservation projects.

Ordering instructions:
Contact CBF for information about volunteering.

a fair Bay

Available from:
Chesapeake Bay National Estuarine Research Reserve
This quarterly newsletter features articles about research and monitoring in progress on Reserve sites; a regular feature, “Species Watch,” about species found on Reserve sites that have or have had ecological problems; and news about the program, its work, and its volunteers.

Ordering instructions:
Contact CBNERR.

Inside the Chesapeake Bay

Available from:
Alliance for the Chesapeake Bay
This poster is a graphic portrait of the Bay and some of the many facets of this national treasure and the forces that can harm it.

Ordering instructions:
Contact ACB. Single copies are free; multiple copies available with payment of postage.

Chesapeake

Available from:
Watershed Initiative/The Tides Foundation
This full-color interactive poster of the Bay’s brackish communities was designed by the Environmental Arts Center. A color overlay lifts to reveal underwater life and natural history text.

Ordering instructions:
Available for $24.95 from WI/TF; instructors’ discounts available.
Baybook
Available from:
Alliance for the Chesapeake Bay
This 32-page guide gives tips for reducing water pollution at home.

Ordering instructions:
Contact ACB. Single copies are free; each additional copy is $1.

Chesapeake Watershed Educational Materials Catalog
Available from:
Watershed Initiative/The Tides Foundation
This catalog lists Chesapeake Bay watershed educational materials available at a discount to educators.

Ordering instructions:
Contact WI/TF for a copy.

River Fact Sheets
Available from:
Alliance for the Chesapeake Bay
This series consists of 1-page fact sheets about the Chesapeake Bay and each of its tributaries. Each fact sheet includes a map, a brief history of the region, and a description of the particular problems and possible remedies for each river basin.

Ordering instructions:
Available free from ACB.

Chesapeake Watershed Wildlife of the Chesapeake Bay Region
Available from:
Watershed Initiative/The Tides Foundation
This handbook to endangered and threatened plants and animals of Delaware, Maryland, and Virginia includes color photographs and maps.

Ordering instructions:
Available for $5.50 from WI/TF.

Chesapeake Bay: Nature of the Estuary, A Field Guide
Available from:
Watershed Initiative/The Tides Foundation
This field guide to the common plants and animals of the wetlands and waters of the Bay and its tributaries is a primer on Bay ecology. It was written and illustrated by Christopher White and Karen Teramura and includes line drawings of more than 350 species in nine major habitats.

Ordering instructions:
Available for $12.95 from WI/TF; instructors’ discounts available.

Life in the Chesapeake Bay
Available from:
Watershed Initiative/The Tides Foundation
This illustrated guide to fish, invertebrates, and plants of the Chesapeake Bay includes line drawings of 335 species. It was written and illustrated by R. L. and A. J. Lipson.

Ordering instructions:
Available from WI/TF for $15.95; educational discounts are available.

Chadwick and the Garplegrungen
Available from:
Watershed Initiative/The Tides Foundation
This is one of the “Chadwick the Crab” series of children’s books by Priscilla Cummings. Chadwick and his friends encounter green and purple gunk in the Bay and try to get rid of it.

Ordering instructions:
Available from WI/TF for $8.95; educational discounts available.

Turning the Tide: Saving the Chesapeake Bay
Available from:
Watershed Initiative/The Tides Foundation
This book summarizes the current state of the Bay and includes recommendations for improving it. It was written by Tom Horton and William Eichbaum.

Ordering instructions:
Available from WUTF for $14.95.
**Land and Water: Managing Growth in the Chesapeake Region**

Available from:
Alliance for the Chesapeake Bay

This 20-minute slide/tape program describes how land development and population growth are affecting the Chesapeake Bay region and explores a wide variety of ideas and solutions for managing growth more effectively.

Ordering instructions:
Available for loan at no cost to schools and organizations; contact ACB.

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**Chesapeake: The Twilight Estuary**

Available from:
Alliance for the Chesapeake Bay

This 40-minute video, produced by Maryland Sea Grant, documents the search for causes of the decline of Bay grasses and makes a strong connection between land activities and water quality.

Ordering instructions:
Available for loan at no cost to schools and organizations; contact ACB.

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**Chesapeake Bay Youth Conservation Corps**

Available from:
Chesapeake Bay Youth Conservation Corps

This program involves at-risk teens of the South Hampton Roads area in environmental projects on the Bay and its tributaries. The program provides services such as water testing and wetland restoration; participants also build blue bird and wood duck boxes.

Ordering instructions:
Contact CBYCC for additional information.

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**School of the Bay**

Available from:
Rappahannock Preservation Society

Boat and canoe trips and student research programs can be scheduled dealing with Bay ecology and oyster reef technology.

Ordering instructions:
Call RPS to arrange. A modest fee is charged.
Virginia Power Teacher Workshops

Available from:
Virginia Power - Educational Services

Each year a variety of workshops are offered to educators. They feature hands-on activities and/or panel discussions with environmental and energy experts.

Ordering instructions:
Write to VP for a list of upcoming programs.

Resources and the Environment

Available from:
Appalachian Power Company

Interdisciplinary workshop presents curriculum developed by Texas A&M University for earth science teachers. Materials provide middle and high school students with a real problem to solve using laboratory data, field studies and mining/mineralogy experts.

Ordering instructions:
Workshops are available to school groups in Southwest Virginia. Call APCO to schedule.

APCO Tours

Available from:
Appalachian Power Company

Tours of power plants and hydro-electric facilities for teachers and school groups are available throughout the Appalachian service area.

Ordering instructions:
Tours are available to school groups in Southwest Virginia. Call APCO at least one week in advance. Group size will vary depending upon facility.

Commonwealth Gas Tours

Available from:
Commonwealth Gas

Tours of facilities are available to school groups.

Ordering instructions:
Contact a local CG office in Richmond, Petersburg, South Hill, Portsmouth, Lynchburg, Staunton, Harrisonburg, Lexington, Covington, Manassas, Fredericksburg, Culpeper or Warrenton.
APCO Speakers Bureau

Available from:
Appalachian Power Company
Staff are available on a variety of subjects relating to energy and energy issues.

Ordering instructions:
Speakers are available for students, teachers and the general public in Southwest Virginia. Call APCO at least one week in advance.

Virginia Power Classroom Presentations

Available from:
Virginia Power
VP staff are available to speak to school groups on energy-related issues.

Ordering instructions:
Contact local VP office; call at least two weeks in advance.

Speakers Bureau

Available from:
Commonwealth Gas
Staff from CG, a natural gas utility, are available to speak to groups about energy and air quality.

Ordering instructions:
Contact a local CG office in Richmond, Petersburg, South Hill, Portsmouth, Lynchburg, Staunton, Harrisonburg, Lexington, Covington, Manassas, Fredericksburg, Culpeper or Warrenton.


Available from:
Department of Mines, Minerals, and Energy
This comprehensive guide is intended for homeowners and individuals interested in learning ways they can save energy, money, and the environment in their homes, cars, and daily activities.

Ordering instructions:
Contact DMME for ordering information.

The Energy Casebook Catalog

Available from:
National Energy Education Development Project
This catalog lists energy education materials for grades 4-12. Fact sheets, games, plays, experiments, teacher and student training and an awards program are available.

Ordering instructions:
Prices vary; call NEED for free catalog.

Natural Gas Vehicles, the Clean Way to Go With a Domestic Fuel

Available from:
Washington Gas
This brochure provides information about the environmental advantages of natural gas as a fuel for vehicles.

Ordering instructions:
Contact WG to order. No charge, but quantities are limited.
Washington Gas, Natural Gas Vehicles and You

Available from:
Washington Gas

This 8-minute video promotes the use of natural gas as a vehicle fuel and discusses the economic, environmental, domestic, and safety benefits of natural gas.

Ordering instructions:
Available from WG for loan to groups of 20 or more; no charge, but borrower must pay return postage.
**Heritage Education Workbook**

Available from:
Preservation Alliance of Virginia

This 105-page workbook is intended for teaching elementary age students about Virginia’s historic resources.

**Ordering instructions:**
Available for $20 from PAV.

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**Historical Perspective of the Roanoke Valley, 1750 - 1850**

Available from:
Virginia’s Explore Park

This series of brochures is based on research on the Hofauger Homestead in the Roanoke Valley. Several topics are available including barn raising, spinning, and gardening.

**Ordering instructions:**
No charge; contact VEP for ordering information.

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**Heritage Education Resource Kits**

Available from:
Roanoke Regional Preservation Office

Kits are available which contain books, curriculum materials, artifacts, and audio-visual programs. The kits will assist teachers in developing study units on archaeology and Virginia’s native peoples.

**Ordering instructions:**
Kits are available from RRPO for loan; request at least two weeks in advance. No charge, but borrowers are responsible for pick-up and return of materials.

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**Virginia Indian Heritage Festival**

Available from:
Virginia Museum of Natural History

This annual 2-day event presents the culture of Native Americans and includes a powwow.

**Ordering instructions:**
Contact VMNH for additional information.

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**The Rappahannock Scenic River Atlas**

Available from:
Friends of the Rappahannock

This 31-page atlas of historic sites on the Rappahannock River and its branches from Waterloo to Fredericksburg includes information about river access and river mileage.

**Ordering instructions:**
Available from FR for $5 plus $2 shipping.

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**First People: The Early Indians of Virginia**

Available from:
University Press of Virginia

This is a history of Virginia’s Indians from 9500 B.C. to the present, including their adaptations to a constantly changing environment.

**Ordering instructions:**
Available for $11.95 plus shipping from UPV.
Virginia Indians: An Educational Coloring Book

Available from:
Virginia Museum of Natural History
This coloring book for elementary age students is based on the Sara Indians of the Virginia and North Carolina Piedmont. It emphasizes the relationship between Native Americans and their environment.

Ordering instructions:
Available from VMNH for $2 plus $0.50 postage.

The Architectural History of Western Virginia

Available from:
Blue Ridge Public Television
This 25-minute video uses images of historic buildings and objects to present a visual and chronological narrative of the history of the upper reaches of the James, Roanoke, and New Rivers.

Ordering instructions:
Available for $15 from BRPT.

Archaeology and the Study of Native Americans in Western Virginia

Available from:
Blue Ridge Public Television
This 15-minute video uses recent archaeological excavations in Salem to introduce a broad range of topics including principles of archaeology and ethics for preservation of historic resources.

Ordering instructions:
Available for $15 from BRPT.
Raindrops Keep Falling on Your Head

Available from:
Department of Conservation and Recreation

This kids’ activity book on soil and water conservation contains puzzles, facts about soil and water, group and individual activities, and a centerfold coloring poster.

Ordering instructions:
Free; call or write DCR for a copy.

Teaching Soil and Water Conservation: A Classroom and Field Guide

Available from:
John Marshall Soil and Water Conservation District

This 30-page activity booklet for educators concentrates on soil particles, the erosion process, and agricultural methods for slowing erosion. The activities can be adapted for lower grades.

Ordering instructions:
Available only to Fauquier County residents; call JMSWCD. No charge; available as supplies last.

Virginia Agriculture in the Classroom

Available from:
Virginia Farm Bureau Federation

This curriculum, primarily targeted at fourth grade, covers history, geography, technological changes, economics, plant science and agricultural ecology. Teacher workshops and other resources are available, as well as materials for all age levels.

Ordering instructions:
For more information contact Ag in the Classroom coordinator at VFBF.

Conserving Soil

Available from:
John Marshall Soil and Water Conservation District

This materials packet contains a 17-page activity guide, 24 master activity sheets, 3 overhead transparencies, and a glossary. Units cover soils, erosion, and issues.

Ordering instructions:
Available only to Fauquier County residents; call JMSWCD. No charge; available as supplies last.

Soil and Man - An Historical Perspective in the Roanoke Area

Available from:
Virginia’s Explore Park

This 20-page booklet describes the history of the development of soils in western Virginia and the influence of humans on these soils, and includes hands-on activities about properties of soil.

Ordering instructions:
No charge; contact VEP.

Conservation Field Trips

Available from:
John Marshall Soil and Water Conservation District

A limited number of opportunities are available for Fauquier County classes to visit local farms. Students will be exposed to agricultural methods and conservation measures used on farms. Hands-on activities are often included.

Ordering instructions:
No charge; must schedule at least three months in advance. The teacher may be expected to assist with locating guest speakers.
Colonial SWCD News

Available from:
Colonial Soil and Water Conservation District

This quarterly newsletter covers Colonial SWCD activities as well as local, state, and national conservation issues.

Ordering instructions:
No charge; contact CSWCD to be placed on mailing list.

John Marshall SWCD Newsletter

Available from:
John Marshall Soil and Water Conservation District

This quarterly newsletter, 4-6 pages, for Fauquier County residents covers local soil and water issues and includes tips, guidelines for agricultural cost-share assistance, upcoming events, and announcements from other resource agencies.

Ordering instructions:
Call or write JMSWCD to be placed on the mailing list.

VISION

Available from:
Valley Conservation Council

This quarterly newsletter for VCC members reports about the activities of VCC and gives information about land preservation.

Ordering instructions:
Contact VCC for membership information.

Environmental Conservation Presentations

Available from:
Colonial Soil and Water Conservation District

Speakers are available to provide environmental conservation presentations with slides or other audio-visual materials.

Ordering instructions:
Contact CSWCD; no charge, but advance scheduling is required.

From the Blue Ridge to the Alleghenies: The Valley of Virginia

Available from:
Valley Conservation Council

Speakers are available (with slide show) to discuss growth issues in the Shenandoah Valley and options available for land protection.

Ordering instructions:
Contact VCC to schedule; service limited to Frederick, Shenandoah, Page, Alleghany, Highland, Bath, Rockbridge, Rockingham, Augusta, Botetourt, and Warren Counties. Donations are accepted.
Soil and Water Stewardship Week Materials

Available from:
John Marshall Soil and Water Conservation District

Soil and Water Conservation Week is observed each spring. The packet contains coloring books, a poster with activities, and bookmarks. The emphasis is on responsible actions for conservation, and there is a different theme each year.

Ordering instructions:
Available only to Fauquier County residents; call JMSWCD. No charge; available as supplies last.

The Story of Land: Its Use and Misuse Through the Centuries

Available from:
John Marshall Soil and Water Conservation District

This 15-page comic book for upper elementary students incorporates principles of soil and water conservation.

Ordering instructions:
Available only to Fauquier County residents. No charge; contact JMSWCD. Teachers may request a class set but must give at least one month advance notice.

Exploring Careers in Agronomy, Crops, and Soils

Available from:
John Marshall Soil and Water Conservation District

This 28-page booklet gives an overview of agronomy and related careers in research and in the field; a good resource for school counselors. It provides pointers on courses to take in high school and gives a list of related disciplines and job titles.

Ordering instructions:
Available only to Fauquier County residents. Contact JMSWCD; quantities are limited.

This is Your Land

Available from:
National Wildlife Federation

This 15-minute filmstrip for elementary and middle school students brings to life the beauty and variety of America's rich natural heritage. National parks, wilderness areas, and other public lands are featured.

Ordering instructions:
Available from NWF for $5 plus shipping. Also available as a slide set.

Soil: We Can't Grow Without It

Available from:
National Wildlife Federation

This 15-minute filmstrip for elementary and middle school students describes how soil is formed and explores the different types of soils and the creatures that make their homes in soil. Human misuse of land is causing soil erosion, but steps can be taken to preserve this resource.

Ordering instructions:
Available for $5 plus shipping from NWF. Also available as a slide set.
**Teachers on the Bay**

*Available from:*
Institute for Chesapeake Bay Studies

This graduate marine ecology course for K-12 teachers features extensive field studies and hands-on learning. A curriculum design element allows teachers to adapt materials to their own classrooms.

*Ordering instructions:*
Contact ICBS.

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**Curriculum Materials and Activities**

*Available from:*
National Aquarium in Baltimore

NAIB has published a wide range of materials, including the aquatic science curriculum “Living in Water.”

*Ordering instructions:*
Contact NAIB for a complete listing and order form; cost varies ($2 - $12).

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**4-H Marine/Aquatic Projects**

*Available from:*
Virginia Cooperative Extension Service

A series of units on marine and aquatic topics with games and activities is available. Four units are available for grades 3-6 (water, ecology, oceans, and resources) and three for grades 7-9 (water pollution, taxonomy, and adaptations).

*Ordering instructions:*
Contact local extension office/4-H agent.
Community Fishing Clinics
Program
Available from:
Department of Game and Inland Fisheries
This program is designed to provide consultation and materials to organizations interested in co-sponsoring fishing clinics in their communities.
Ordering instructions:
A free brochure is available from DGIF; the organizational kit is available from DGIF for $5 (send check payable to “Treasurer of Virginia”).

Marine Science Programs
Available from:
Virginia Marine Science Museum
A variety of programs are available for groups of all ages, both on-site at the Museum and in the field.
Ordering instructions:
Contact VMSM for a current schedule of programs available; fees vary with program.

Catch of the Day - Wooden Boats and Iron Men
Available from:
Watermen’s Museum
This 1 1/2-hour program offers students and teachers an opportunity to gain an appreciation for the life of the watermen.
Ordering instructions:
Contact WM for scheduling information.

Ocean Encounters
Available from:
Ocean Encounters
Programs in marine science are available to schools, daycare centers, camps, senior centers, libraries, museums, hospitals, home-schoolers, and others. Concepts are taught using hands-on activities and live marine invertebrates.
Ordering instructions:
Call OE for contract; complete and return. Fees vary with program and distance traveled.

Educational Publications
Available from:
Virginia Institute of Marine Science
Several publications are available for teaching about the Bay and general marine science, including fact sheets, curriculum materials, and scientific reports.
Ordering instructions:
Contact VIMS to request a publications list/order form.
Norfolk Botanical Garden
Available from: Norfolk Botanical Garden
A variety of horticulture classes and workshops for elementary students and the general public are scheduled continuous throughout the year.

Ordering instructions:
Classes generally have a fee. Contact NBG Education Department for a schedule.

Arboretum Workshops
Available from: State Arboretum of Virginia
Classes and workshops are offered spring and fall. Some classes are appropriate for children.

Ordering instructions:
Contact SAV for list of classes and ordering information.

Project Learning Tree
Available from: Department of Forestry
This national program provides lesson plans and teacher training about forest communities through free teacher workshops. Interdisciplinary activities focus on critical thinking and informed decision making about environmental issues.

Ordering instructions:
Workshops are scheduled throughout the state. Contact DOF for more information about workshops currently scheduled or how to arrange one in your area.

Common wealth of Virginia: School Gardening for Wildlife
Available from: Virginia Department of Game and Inland Fisheries and the Virginia Museum of Natural History
This curriculum package, available through school workshops, is intended to help schools create a wildlife garden on school grounds and use it as an outdoor laboratory for interdisciplinary learning.

Ordering instructions:
Contact DGIF or VMNH to schedule an on-site workshop.

Annual Tree Seedling Sales
Available from: Virginia Department of Forestry; Colonial Soil and Water Conservation District
Tree seedlings are available each spring for schools and outdoor classrooms from the Department of Forestry. The Colonial Soil and Water Conservation District also sponsors a spring sale of plants and shrubs to be used for erosion control or wildlife habitat construction.

Ordering instructions:
Trees can be ordered through DOF by requesting a catalog beginning October 1st. For more information call the forestry office in your locality. Also contact CSWCD for information about their plant species, a price list and ordering instructions.
Annual Fall Wildflower Sale
Available from:
Virginia Living Museum
Native species, in 3-4 inch pots, ready for fall planting are featured. Staff and volunteers are available for consultation.
Ordering instructions:
Call VLM for date of sale. A special advance sale is held for museum members.

Annual Wildflower Sales
Available from:
Virginia Native Plant Society
Plants and shrubs, native to Virginia, are offered for sale each spring. Plants can be used for beautification and naturalization projects, to attract wildlife and to enhance outdoor classrooms.
Ordering instructions:
Write to the VNPS for more information.

Norfolk Botanical Garden
Available from:
Norfolk Botanical Garden
Tours for elementary students and the general public (30 - 45 minutes during the fall and spring) of 150-acre botanical garden on a lakefront. Site includes formal landscapes and natural forest, opportunity for ecological study, identification and research.
Ordering instructions:
Tours must be scheduled 30 days in advance with NBG Education Department.

State Arboretum of Virginia
Adult Tour Program
Available from:
State Arboretum of Virginia
General and topical tours are available free of charge for groups; self-guided tours are also available.
Ordering instructions:
Call SAV; reservations are required.

Arboretum School Tour Program
Available from:
State Arboretum of Virginia
Nine different environmental topics are available to school groups. The programs are grade-level specific and include outdoor walks, hands-on activities, and take-home items.
Ordering instructions:
Reservations are required; call early. Call SAV for a free brochure describing the programs.

Forestry and Wildlife Bus Tours
Available from:
Virginia Tech College of Forestry and Wildlife Resources
Tours are scheduled each fall to visit private woodlands, industry or public lands which show management practices that demonstrate multiple-use forestry and wildlife management techniques to achieve income, recreation or other goals.
Ordering instructions:
Contact VATECH--CFWR or local extension agent for schedule and registration form. A small fee is charged.

The Problem of Invasive Exotic Plants
Available from:
Virginia Native Plant Society
A speaker (with professional slides) will discuss the problem of invasive exotic plants destroying the habitat(s) of native plant species.
Ordering instructions:
Call VNPS to schedule; travel expenses must be reimbursed.
Spring Wildflowers of the Blue Ridge Mountains: A Checklist

Available from:
Blue Ridge Wildflower Society

This 14-page checklist gives common and scientific names of about 400 spring and early summer blooming trees, shrubs, and herbaceous plants.

Ordering instructions:
Available from BRWS for $1.50.

Plants: Improving Our Environment

Available from:
John Marshall Soil and Water Conservation District

This 15-page educational comic book for upper elementary students incorporates principles of soil and water conservation.

Ordering instructions:
Available at no charge to Fauquier County residents; contact JMSWCD. Teachers may request a class set but must give at least one month advance notice.

The Urban Forest Activities Book

Available from:
Virginia Tech College of Forestry and Wildlife Resources

This illustrated booklet produced by the USDA Forest Service contains word puzzles and songs for elementary students.

Ordering instructions:
Contact VATECH -- CFWR.

One Green Tree

Available from:
John Marshall Soil and Water Conservation District

This 14-page educational comic book for elementary or middle school grades discusses all of the benefits that trees provide to the environment and includes a conservation ethic for replanting to replace harvested trees.

Ordering instructions:
Available to Fauquier County residents. No charge; contact JMSWCD. Teachers may request a class set but must give at least one month advance notice.

Forests Are More Than Trees

Available from:
National Wildlife Federation

This 20-minute filmstrip for elementary and middle school students shows the importance of forests. The program covers ecology, uses, recreation, habitats, and threats to forest welfare.

Ordering instructions:
Available from NWF for $5. Also available as a slide set.

Forests for the Chesapeake Bay

Available from:
John Marshall Soil and Water Conservation District

This 25-minute video is about the watersheds of the Bay, nonpoint source pollution, and how forests help protect the Bay. It includes footage of a forester visiting a private landowner to discuss management of forested property.

Ordering instructions:
Available for loan to Fauquier County residents from JMSWCD; call or write to reserve.
4-H Program on Forestry and Wildlife

Available from:
Virginia Tech College of Forestry and Wildlife Resources

An extracurricular environmental education program for youth

Ordering instructions:
Contact VATECH--CFWR or local extension agent.
Youth Presenter Training Program

Available from:
Prince William County Litter Control Council

This program trains volunteers to give presentations to youths. It consists of three parts: a two hour initial training, viewing a presentation, and conducting a presentation.

Ordering instructions:
Contact PWCLCC for scheduling information.

The New Three Rs: Reduce, Reuse, and Recycle

Available from:
Department of Environmental Quality

This booklet of activities to teach middle and high school students waste management concepts.

Ordering instructions:
Contact local recycling or litter control coordinator.

Think Earth

Available from:
Department of Environmental Quality

This package, suitable for grades 3-7, focuses on reducing solid waste and pollution. Students learn about trash and wastewater and ways to reduce generating them. Includes a video, 3 posters, and 8 lessons with blackline masters for reproducing.

Ordering instructions:
Contact DEQ to borrow kit for 2 weeks.

Nature’s For Me

Available from:
Steel Recycling Institute

This activity kit for preschool teachers includes a guide for hands-on interactive activities, reference materials, a magnet and a special box in which to keep projects and other materials. Lessons help develop skills in classification, numbers, sequence, time and spatial relations.

Ordering instructions:
Cost is $12.00 per kit. Contact SRI for list of other materials such as posters and coloring sheets.

Cycles for Science

Available from:
Steel Recycling Institute

This high school curriculum supplement is designed around core areas of science (biology, chemistry, physics and earth science) and contain project-oriented lessons and hands-on activities covering a variety of waste management topics.

Ordering instructions:
Contact SRI for an order form. Other materials are available.

Recycled Materials Contest

Available from:
Prince William County Litter Control Council

This contest is for the best project made from recycled materials.

Ordering instructions:
Call PWCLCC for information.

Recycled Costume Contest

Available from:
Prince William County Litter Control Council

This contest is for the best costume made from recycled materials.

Ordering instructions:
Call PWCLCC for information.
Environmental Shopping Tours
Available from:
Prince William County Litter Control Council
These tours for students and adults at local grocery store promote awareness of smart shopping.
Ordering instructions:
Call PWCLCC for information.

Recycle America Material Recovery Facility Tour
Available from:
Waste Management of Hampton Roads
Groups may tour a 1000-plus tons per day recycling sorting plant. The program includes a presentation and shows container and paper sorting lines.
Ordering instructions:
No charge; call WMHR to schedule tour. Visitors must wear hard-soled shoes.

Waste Watch
Available from:
Virginia Peninsulas Public Service Authority
This quarterly newsletter covers regional solid waste management projects, activities, and issues. Articles and information about school and community group recycling and cleanup efforts are welcome.
Ordering instructions:
Call VPPSA to be placed on mailing list.

Clean Valley Council Speaker
Available from:
Clean Valley Council
A speaker/educator is available to speak on a variety of topics including recycling, litter control, household hazardous waste, environmental shopping, or marine debris.
Ordering instructions:
Programs are free to groups within the Roanoke Valley; travel expenses are required to visit classrooms outside the Roanoke Valley.

Speakers Bureau
Available from:
Prince William County Litter Control Council
Speakers are available for groups in Prince William county to discuss topics such as litter, recycling, waste reduction, hazardous waste, and environmental shopping.
Ordering instructions:
No charge; please call at least two weeks in advance to schedule.

Recycling in the VPPSA Region
Available from:
Virginia Peninsulas Public Service Authority
Presentations are available to groups of all ages on the Lower and Middle Peninsulas on a variety of topics related to recycling and solid waste management.
Ordering instructions:
No charge; call VPPSA at least two weeks in advance to schedule.
**Recycling and Litter Activities for Teachers**

Available from:
Department of Environmental Quality
A list of lesson plans, by grade level, from several curriculum supplements, such as Operation Waste Watch. Also includes a list of more than 50 curriculum guides.

**Ordering instructions:**
Call DEQ for a free copy. Multiple copies are available, also.

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**A Citizen’s Guide to Litter Control**

Available from:
Prince William County Litter Control Council
This pamphlet is designed to help citizens understand the laws and programs dealing with litter.

**Ordering instructions:**
Contact PWCLCC. Free to Prince William County residents; non-residents, $1.

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**Business Recycling Guide**

Available from:
Recycling Association of Central Virginia
This 14-page guide gives step-by-step instructions for setting up an office paper recycling program.

**Ordering instructions:**
Available for $2 from RACV.

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**Business Waste Recycling**

Available from:
Clean Valley Council
This 18-minute video describes the steps involved in starting a school or business recycling program.

**Ordering instructions:**
Available from CVC for $22 plus $2 shipping. Virginia residents must add Virginia sales tax (4.5%).

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**The Clean Game**

Available from:
Prince William County Litter Control Council
This is a 25-minute video of an environmental quiz game between teens from three jurisdictions in Prince William County.

**Ordering instructions:**
Contact PWCLCC. Available for loan free of charge to Prince William County residents.

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**Recycling and Litter Prevention Video Library**

Available from:
Department of Environmental Quality
More than 100 different videos concerning recycling, litter prevention, solid waste, and composting are available on loan for 2 weeks.

**Ordering instructions:**
Videos are free to borrow; users must pay return postage. Call DEQ for a list of titles, including the running time and year produced.

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**YES I CAN!**

Available from:
Steel Recycling Institute
This video (approximately 15 minutes long) and teacher’s guide for early elementary grades tells a story about a steel can that undergoes a series of experiences related to being purchased, used, recycled or thrown away.

**Ordering instructions:**
Cost is $10.95 and includes postage. Contact SRI for list of other materials.
Woodsy Owl Pollution Patrol
Badge Program

Available from:
Prince William County Litter Control Council

This program is a booklet of pollution prevention activities for children. Children must complete 10 of the activities to receive a certificate, badge, and membership card.

Ordering instructions:
Prince William County residents may contact PWCLCC for a copy of the activity booklet.
American Water Works Association Science Fair Award

Available from:
American Water Works Association
AWWA contributes awards to regional science fairs for projects dealing with water. Students are awarded a $50 savings bond and their teachers/advisors are awarded classroom supplies.

Ordering instructions:
Contact AWWA for information.

Water Workshops

Available from:
American Water Works Association
Workshops and seminars are available for teachers about the water industry and water resources.

Ordering instructions:
Contact AWWA for a schedule of workshops.

Community Approach to Watershed Protection

Available from:
Virginia Center for the Environment
Workshops and educational resources are available to help engage students in active projects that preserve and improve the environment of the local region and its watersheds.

Ordering instructions:
Available to the Charlottesville - Albemarle region. Contact VCE (formerly the Tandem Center for the Environment) for more information about environmental education resources, community events and projects.

Educational Materials

Available from:
American Water Works Association
AWWA produces a variety of materials useful for teaching about water resources and water treatment. The local AWWA Education Committee will assist a school system in establishing a water resource education program and will provide initial materials.

Ordering instructions:
Contact AWWA for additional information.

Water Resources Education Trunk

Available from:
Department of Environmental Quality
This suitcase is filled with a groundwater flow model, instructional videos, lesson plans, maps, posters, up-to-date reference books about water resources in Virginia and a Chesapeake Bay mini-unit. Materials are geared for grades 4 - 12 and include science, math, geography, language arts and social studies.

Ordering instructions:
Trunks can be borrowed for two weeks from state parks and Soil and Water Conservation field offices around the state or contact DEQ or DCR for location information.

Project WET

Available from:
Department of Environmental Quality
A nationally developed program for preschool, elementary and secondary science, math, social studies and language arts. Materials are available through free teacher workshops.

Ordering instructions:
Contact DEQ for schedule of workshops.
Water Games - Water Education Software

Available from:
Virginia Water Resources Research Center

Five water education programs are included on one diskette: Water Conservation; Water Trivia; Hot Water Cost; Drowning Man, and How Much Water Do You Weigh?

Ordering instructions:
Available from VWRRC for $5; specify IBM or Apple version.

Water and Me

Available from:
Virginia’s Explore Park

This 5-page brochure contains short activities designed to give elementary age students an appreciation for water as a valuable renewable natural resource.

Ordering instructions:
No charge; contact VEP.

Groundwater Protection: What Would You Do?

Available from:
Virginia Water Resources Research Center

This computer software simulates groundwater protection and asks the user to find the source of well water contamination. It is appropriate for ages 13 to adult.

Ordering instructions:
Available from VWRRC for $5; only Apple IIe and IIc versions are available.

Friends of the Shenandoah

Available from:
Friends of the Shenandoah

This organization provides a variety of educational services to groups in Rockingham, Page, Warren, and Clarke Counties which are interested in the preservation of the Shenandoah River.

Ordering instructions:
Contact FS for information on membership and services.

Water in Your Hands

Available from:
John Marshall Soil and Water Conservation District

This 15-page educational comic book for upper elementary students incorporates principles of soil and water conservation.

Ordering instructions:
Available to Fauquier County residents. No charge; contact JMSWCD. Teachers may request a class set but must give at least one month advance notice.
**A Guide to Septic Systems and Alternatives**

**Available from:**
Virginia Water Resources Research Center

This 36-page booklet provides useful information to help citizens site and maintain home sewage systems, and includes information on alternatives to septic systems.

**Ordering instructions:**
Contact VWRRC. Single copies are free to Virginia residents; others, $8.

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**Be Water Wise: Informative Brochure**

**Available from:**
Virginia Water Resources Research Center

This brochure uses a cartoon format to describe ways to conserve water around the home.

**Ordering instructions:**
Available free from VWRRC; please limit request to 30 copies.

---

**Springs of Virginia**

**Available from:**
Virginia Water Resources Research Center

This booklet describes the history and location of springs in Virginia, the threats to spring water quality, and management and protection approaches.

**Ordering instructions:**
Contact VWRRC. Single copies are free to Virginia residents; others, $5.

---

**Getting the Lead Out**

**Available from:**
Virginia Water Resources Research Center

This 8-page informative report describes the risks and costs of lead in drinking water.

**Ordering instructions:**
Contact VWRRC. Single copies are free to Virginia residents; others, $4.

---

**Groundwater: Sculptor of Caves**

**Available from:**
Virginia Water Resources Research Center

This 5-minute program shows how groundwater creates caves and their formations.

**Ordering instructions:**
May be borrowed at no cost from VWRRC (must reserve at least two weeks in advance); may be purchased for $35.

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**Water: We Can’t Live Without It**

**Available from:**
National Wildlife Federation

This 14-minute filmstrip for elementary and middle school students shows how freshwater habitats support wildlife, what threatens our water supplies, and how we can conserve this vital resource.

**Ordering instructions:**
Available for $5 plus shipping from NWF. Also available as a slide set.

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**Threats to Virginia’s Groundwater**

**Available from:**
Virginia Water Resources Research Center

This 18-minute program illustrates basic groundwater concepts and the importance of groundwater to Virginians.

**Ordering instructions:**
May be borrowed at no cost (two weeks advance notice required). Also available as a video which can be purchased for $25.

---

**From the River to the Tap**

**Available from:**
Virginia Water Resources Research Center

This 12-minute slide program shows the steps in treating water to make it safe for drinking.

**Ordering instructions:**
May be borrowed at no cost from VWRRC (two weeks advance notice required). Also available as a video.
Be Water Wise: Slide Set

Available from:
Virginia Water Resources Research Center

This slide/tape program illustrates middle school students using and abusing water.

Ordering instructions:
Available for loan at no cost from VWRRC; please reserve at least two weeks in advance. May be purchased for $35.

Save Our Streams: A Guide to Water Quality Monitoring

Available from:
John Marshall Soil and Water Conservation District

This 28-minute video provides a demonstration of stream monitoring techniques, including pollution problems, sampling, identifying organisms, and using a stream survey.

Ordering instructions:
Available for loan to Fauquier County residents from JMSWCD; call or write to reserve.

Total water use in 1991 for domestic, public, industrial and agricultural purposes amounted to about 8 billion gallons per day. Ninety-eight percent of this came from groundwater. Groundwater is the primary source of drinking water for nearly 1.5 million Virginians.

The average Virginian uses about 80 gallons of water per day. Approximately 84 percent enters a sewage or septic system. Water that enters a sewage system will ultimately be treated at a wastewater treatment plant.
**WOW! The Wonders of Wetlands**

**Available from:**
Environmental Concern, Inc.

This 160-page educators’ guide to wetlands learning activities includes over 40 classroom and outdoor lessons for students in grades K-12.

**Ordering instructions:**
No charge for the guidebook; $3.50 shipping. Contact EC for information on ordering multiple copies.

---

**Wading Into Wetlands**

**Available from:**
National Wildlife Federation

This 64-page curriculum guide is one of the Nature Scope activity series. The guide is appropriate for K-8 and includes background information, hands-on activities, a glossary, and a bibliography.

**Ordering instructions:**
Contact NWF to order. Guides may be purchased for $7.95 plus shipping.

---

**Landowner Guide to Wetland Assistance**

**Available from:**
Chesapeake Bay National Estuarine Research Reserve in Virginia

This brochure provides information about 18 federal, state, local, and non-profit organizations which provide assistance or information about wetlands to landowners.

**Ordering instructions:**
Write CBNERR to request a copy. Enclose a stamped, self-addressed business size envelope with your request.

---

**Wetland Flora**

**Available from:**
Virginia Institute of Marine Science

This series of one-page fact sheets was written by Gene Silberhom of the VIMS Wetlands Program. Each of the 16 fact sheets describes a single wetland plant and its distribution, habitat, and ecological value.

**Ordering instructions:**
Contact VIMS for a list of titles.

---

**Wetlands Technical Reports**

**Available from:**
Virginia Institute of Marine Science

This series of reports was produced by scientists in the VIMS Wetlands Program. Titles include: Animals of the Intertidal Sand and Mud Flats; Tidal Wetland Values; Nontidal Wetland Functions and Values; Tidal Freshwater Swamps of the Lower Chesapeake Bay; and several others.

**Ordering instructions:**
Contact VIMS for a list of titles and ordering information.

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**A Property Owner’s Guide to Wetlands Permits**

**Available from:**
Virginia Water Resources Research Center

This 36-page booklet provides information on the wetlands permit process.

**Ordering instructions:**
Contact VWRRC. Single copies free to Virginia residents; others $4.

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**The Wealth in Wetlands**

**Available from:**
John Marshall Soil and Water Conservation District

This 23-minute video, produced by the National Association of Conservation Districts, shows how farmers are trying to restore and preserve wetlands on their land. It includes interviews with five farmers who explain why wetlands are important to them and methods used in restoration.

**Ordering instructions:**
Available for loan to Fauquier County residents. Call JMSWCD to reserve.
## Awards

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National Wildlife Federation
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Teacher's Guide to World Resources 1992-93
Teaching Soil and Water Conservation...
The New Three Rs: Reduce, Reuse, and Recycle
Think Earth
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Water Games - Water Education Software
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WOW! : The Wonders of Wetlands
Zoopack

organization

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Steel Recycling Institute
Virginia's Explore Park
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Department of Forestry
National Wildlife Society
Department of Conservation and Recreation
Appalachian Power Company
Virginia's Explore Park
U. S. Environmental Protection Agency- Region III
World Resources Institute
John Marshall Soil and Water Conservation District
Department of Environmental Quality
Department of Environmental Quality
Virginia Farm Bureau Federation
National Wildlife Federation
Virginia's Explore Park
Virginia Water Resources Research Center
Virginia Department of Environmental Quality
Environmental Concern, Inc.
Virginia Zoological Society

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Virginia Foundation for the Humanities and Public Policy
Richmond Audubon Society
Virginia Environmental Endowment

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general environmental education

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Virginia Living Museum District
Colonial Soil and Water Conservation

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Community Fishing Clinics Program
Estuaries Day
Recycled Costume Contest
Recycled Materials Contest
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organization
State Arboretum of Virginia
Department of Game and Inland Fisheries
Chesapeake Bay National Estuarine Research Reserve
Prince William County Litter Control Council
Prince William County Litter Control Council
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Research and Education for Virginia’s Estuaries
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Wildlife Exhibit
Wildlife Exhibit

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Alliance for the Chesapeake Bay
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Aquarium Tours
Arboretum School Tour Program
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Bill Portlock Field Studies
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Catch of the Day - Wooden Boats and Iron Men
Chesapeake Bay: A Way of Life
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Virginia Institute of Marine Science
State Arboretum of Virginia
Bill Portlock Field Studies
Richmond Audubon Society
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ECO
Explorations
John Marshall SWCD Newsletter
Moving People
News and Views
Richmond Audubon Society Newsletter
The Federation Record
The Naturalist News
The Potomac Flier
Virginia Explorer
VISION
Waste Watch

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Trout Unlimited

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Arboretum Speakers Bureau
Audubon Speakers
Chesapeake Bay Marine Lab
Clean Valley Council Speaker
Environmental Conservation Presentations
Environmental Education Outreach Programs
Environmental Education Program
From the Blue Ridge to the Alleghenies...
Group Presentations
Ocean Encounters
Outreach Program

organization

Colonial Soil and Water Conservation District
Prince William County Litter Control Council
Virginia’s Explore Park
John Marshall Soil and Water Conservation District
Moving People of Northern Virginia
National Association of Biology Teachers
Richmond Audubon Society
Virginia Wildlife Federation
Audubon Naturalist Society
Fairfax Audubon Society
Virginia Museum of Natural History
Valley Conservation Council
Virginia Peninsulas Public Service Authority

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general environmental education

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general environmental education

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Chesapeake Bay: Nature of the Estuary...
Chesapeake Educational Materials Catalog
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Earth Day Guide: How to Plan, Publicize...
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Recycling and Litter Activities for Teachers
Soil and Water Stewardship Week Materials
Spring Wildflowers of the Blue Ridge Mountains
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The Energy Casebook Catalog
The Rappahannock Scenic River Atlas
The Story of Land: Its Use and Misuse...
The Urban Forest Activities Book
The Virginia Energy Savers Handbook...
Turning the Tide: Saving the Chesapeake Bay
Virginia Environmental Voting Summary
Virginia Indians: An Educational Coloring Book
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### videos
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- The Architectural History of Western Virginia
- The Clean Game
- The Road to Clean Air
- The Wealth in Wetlands
- Voices of Vision: The Future of...
- Washington Gas, Natural Gas Vehicles and You
- YES I CAN!

### name
- 4-H Program on Forestry and Wildlife
- Boy Scout Field Day
- Chesapeake Bay Youth Conservation Corps
- EnviroAdventures
- Environmental Education Program
- Friendship Environmental Education
- School of the Bay
- Summer Discovery Series
- Summer Safari
- Teen Adventure
- Wildlife Camp
- Wildlife Internship Program
- Woodsy Owl Pollution Patrol Badge Program
- Youth and Family Program

### organization
- VA Tech College of Forestry and Wildlife Resources
- Colonial Soil and Water Conservation District
- Chesapeake Bay Youth Conservation Corps
- Virginia Wildlife Federation
- Westview on the James
- Friendship Environmental Education
- Rappahannock Preservation Society
- Maymont Foundation
- Virginia Zoological Society
- National Wildlife Federation
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- Mill Mountain Zoological Park
- Prince William County Litter Control Council
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