

Environmental Education Resources Directory

A Guide to Environmental Education and Resource Use in Virginia

Produced by:

Department of Environmental Quality
Commonwealth of Virginia

Virginia Institute of Marine Science
School of Marine Science
College of William and Mary

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Introduction

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

BPFS
Bill Portlock Field Studies
Rt. 1 Box 107
Bowling Green VA 22427
(804) 633-7249

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

CG
Commonwealth Gas
P.O. Box 35800
Richmond VA 23235
(804) 323-5450

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MM
Mariner's Museum

100 Museum Drive
Newport News VA 23606
(804) 595-0368

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

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

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

NAIB
National Aquarium in Baltimore
Pier 3, 501 E. Pratt Street
Baltimore MD 21202-3194
(410) 576-3887

NASA CORE
**NASA Central Operation of
Resources for Teachers**
1581 Route 58 South
Oberlin OH 44074
(216) 774-1051

NBG
Norfolk Botanical Garden
Azalea Garden Road
Norfolk VA 23518
(804) 441-5803

NC
Nature Conservancy
1233-A Cedars Court
Charlottesville VA 22903
(804) 295-6106

NEED
**National Energy Education
Development Project**
P. O. Box 2518
Reston VA 22090
(804) 860-5029

NFRC
National Fisheries Research Center
Box 700
Kearneysville WV 25430
(304) 715-8461

NGS
National Geographic Society
Educational Services
Washington DC 20036
1(800)368-2728

NSVAS
**Northern Shenandoah Valley
Audubon Society**
P. O. Box 175
Boyce VA 22620
(703) 667-3184

NWF
National Wildlife Federation
1400 Sixteenth Street, NW
Washington DC 20036-2266
(800) 245-5484

NWI
National Wilderness Institute
P.O. Box 25766, Georgetown Station
Washington DC 20007
(703) 836-7404

OE
Ocean Encounters
405 Pleasant Street
Highland Springs VA 23075
(804) 737-7505

PAV
Preservation Alliance of Virginia
P. O. Box 1407
Staunton VA 24402
(703) 886-4362

PWCLCC
**Prince William County Litter Control
Council**
3460 Commission Court
Prince William VA 22192
(703) 792-6272

RACV
**Recycling Association of Central
Virginia**
P. O. Box 8476
Richmond VA 23226
(804) 649-RACV

RAS
Richmond Audubon Society
P. O. Box 804
Richmond VA 23207
(804) 257-0813

RCPR
**Roanoke County Parks and
Recreation**
1206 Kessler Mill Road
Salem VA 24153
(703) 387-6091

RPS
Rappahannock Preservation Society
P.O. Box 66
Topping VA 23169
(804) 758-2569

RRPO
Roanoke Regional Preservation Office
1030 Penmar Avenue SW
Roanoke VA 24013
(703) 857-7585

SAV
State Arboretum of Virginia
P. O. Box 175
Boyce VA 22620
(703) 837-1758

SCETV
South Carolina Educational TV
Marketing Department
Box 11000
Columbia SC 29211
1(800) 553-7752

SMWVA
Science Museum of Western Virginia
1 Market Square
Roanoke VA 24011
(703) 342-5710

SRI
Steel Recycling Institute
5102 #2 W. Village Green Drive,
Suite 107
Midlothian VA 23112
(804) 744-7408

TARF
The Acid Rain Foundation
1410 Varsity Drive
Raleigh NC 27606
(919) 828-9443

TU
Trout Unlimited
800 Follin Lane, SE, Suite 250
Vienna VA 22180
(703) 281-1100

UC/PDCCC
**Union Camp/Paul D. Camp
Community College**
100 N. College Drive
Franklin VA 23851
(804) 562-2171

UPV
University Press of Virginia
Box 3608 University Station
Charlottesville VA 22903
(804) 924-6064

USFWS-CB
**US Fish and Wildlife
Service-Chesapeake Bay Field Office**
177 Admiral Cochrane Drive
Annapolis MD 21401
(410) 224-2732

VATECH -- CEE
**Virginia Tech -- Center for Economic
Education**
218 Hutcheson Hall
Blacksburg VA 24061-0401
(703) 231-7722

VATECH -- CFWR
**Virginia Tech -- College of Forestry
and Wildlife Resources**
324 Cheatham Hall, VPI&SU
Blacksburg VA 24060-0321
(703) 231-7670

VCC
Valley Conservation Council
P. O. Box 2335
Staunton VA 24402
(703) 886-3541

VCE
Virginia Center for the Environment
(formerly Tandem Center for the Env)
1706 Bent Tree Court
Charlottesville VA 22902
(804) 296-7165

VCES
**Virginia Cooperative Extension
Service**
Box 9081, Virginia State University
Petersburg VA 23806
(804) 524-5964

VCU/OES
**Office of Environmental Studies
Virginia Commonwealth University**
901 W. Franklin Street, Box 2527
Richmond VA 23284
(804) 367-7202

VEE
Virginia Environmental Endowment
1051 E. Cary Street, P. O. Box 790
Richmond VA 23206-0709
(804) 644-5000

VEN
Virginia Environmental Network
1001 E. Broad Street, # 435
Richmond VA 232 19
(804) 644-0283

VEP
Virginia's Explore Park
Hofauger House
3900 Rutrough Road
Roanoke VA 240 14
(703) 344-3 190

VFBB
Virginia Farm Bureau Federation
P.O. Box 27552
Richmond VA 23261
(804) 784-1374

VFHPP
**Virginia Foundation for the
Humanities and Public Policy**
145 Ednam Drive
Charlottesville VA 22903
(804) 924-3296

VI
Versar, Inc.
6850 Versar Center
Springfield VA 22151
(800) 2-VERSAR

VIMS
**Virginia Institute of Marine Science
Virginia Sea Grant College Program**
P. O. Box 1346
Gloucester Point VA 23062
(804) 642-7 172
Aquarium: 642-7 176

VLM
Virginia Living Museum
524 J. Clyde Morris Blvd
Newport News VA 23601
(804) 595-1900

VMNH
Virginia Museum of Natural History
1001 Douglas Avenue
Martinsville VA 24112
(703) 666-8615

VMSM
Virginia Marine Science Museum
717 General Booth Boulevard
Virginia Beach VA 23451
(804) 437-4949

VNPS
Virginia Native Plant Society
P. O. Box 844
Annandale VA 22003
(703) 672-3814

VOICE
**Virginia Organized Industries for a
Clean Environment**
P. O. Box 241
Richmond VA 23202
(804) 644-7884

VP
Virginia Power - Educational Services
P. O. Box 26666
Richmond VA 23261

VPPSA
Virginia Peninsulas Public Service Authority
2 Eaton Street, Suite 502
Hampton VA 23669
(804) 728-2062

VRUEC
Virginia Resource-Use Education Council
c/o DEQ - Division of Public Affairs
P.O. Box 10009
Richmond VA 23240-0009
(804) 762-4442

VWF
Virginia Wildlife Federation
4602 West Grove Court
Virginia Beach VA 23455
(804) 464-3136

VWRRC
Virginia Water Resources Research Center
617 N. Main Street
Blacksburg VA 24060
(703) 231-8036

VZS
Virginia Zoological Society
3500 Granby Street
Norfolk VA 23504
(804) 624-9937

WCML
Wilderness Conservancy at Mountain Lake
Route 700
Mountain Lake VA 24136
(703) 626-7614

WCV
The Wildlife Center of Virginia
P. O. Box 98
Weyers Cave VA 24486
(703) 234-9453

WG
Washington Gas
6801 Industrial Road, Room 249
Springfield VA 22151
(703) 750-5522

WI/TF
Watershed Initiative/TheTides Foundation
P. O. Box 6662
Annapolis MD 21401
(410) 268-4459

WJ
Westview on the James
1231 West View Road
Goochland VA 23063
(804) 457- 4210

WM
Watermen's Museum
309 Water Street
Yorktown VA 23690
(804) 887-2641

WMHR
Waste Management of Hampton Roads
401 E Street
Hampton VA 23661
(804) 838-6008

WRI
World Resources Institute
1709 New York Ave., NW
Washington DC 20006
1(800)822-0504

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.

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.

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.

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.

Conservation Awards Program

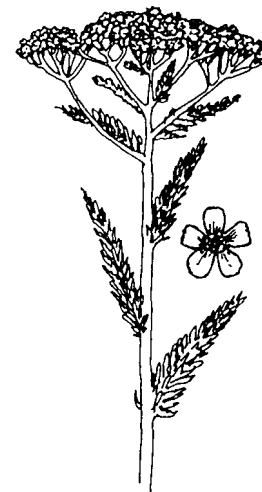
Available from:

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.



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.

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.

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.

Environmental Education Program

Available from:

Caroline Furnace Lutheran Camp

CFCLC 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 CFCLC to schedule.

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.

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.

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.

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.

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.

Environmental Explorers

Available from:

The Mariner's Museum

A variety of environmental programs for young people are available.

Ordering Instructions:

Contact MM for a complete list of programs available and registration information.

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.

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.

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/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.

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.

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.

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.

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.



education grants

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.

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.

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.

events

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.

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:

Teachers in the City of Fredericksburg and Stafford, Spotsylvania, King George, and Caroline Counties may call FR for a schedule of workshops and information on regional resources.

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.

Legislative Hotline

Available from:

Virginia Environmental Network

During sessions of the General Assembly, a 3-minute recorded message is updated daily about the status of bills concerned with environmental issues.

Ordering instructions:

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

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.

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.

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.

Explorations

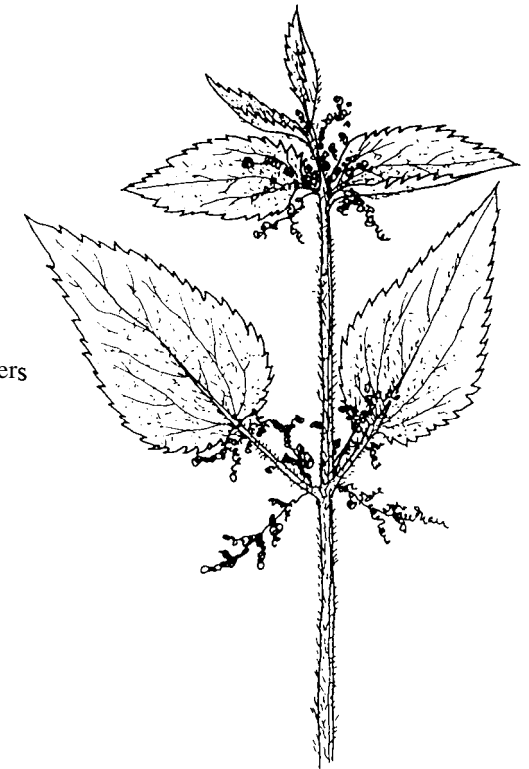
Available from:

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.

Speakers Bureau

Available from:

Virginia Commonwealth University - Office of Environmental Studies

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.

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.

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.

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.

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 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.

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.

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.

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.

A Planning Guide to Field Study Programs

Available from:

Virginia Cooperative Extension Service

This video and companion teacher's guide will help with planning, organizing, and conducting an outdoor field study program for youths.

Ordering instructions:

Contact local extension service or VCES. Videos may be borrowed at no charge (borrowers must pay return postage); single copies of manual are free.

Voices of Vision: The Future of Virginia's Environment

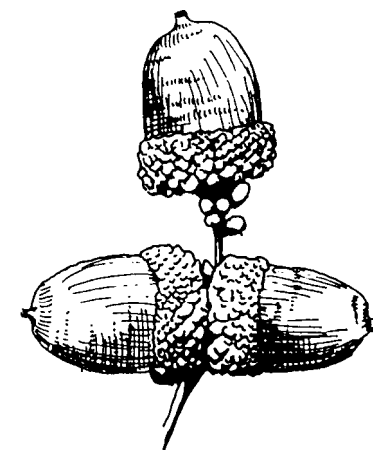
Available from:

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.

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.

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.



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.

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

Available from:

Great Explorations in Math and Science

A collection of eight activities for grades 6-10 that combines scientific inquiry and critical thinking as students learn about acids, how pH changes after a rainstorm, conduct experiments, and present a play about the effects on aquatic life.

Ordering instructions:

Cost is \$11.00 plus \$1.50 shipping. Quantity discounts available. Units on the greenhouse effect and solar energy are also available. Call GEMS for order form.

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.

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

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.

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.



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.

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.

Wildlife Exhibit

Available from:

The Wildlife Center of Virginia

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

Ordering instructions:

Schedule with WCV at least 8 weeks in advance, as staffing is limited.

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.



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.

Zoo Tours

Available from:

Virginia Zoological Society

Docent-led tours or live animal demonstrations are available for school groups.

Ordering instructions:

Call VZS at least six weeks in advance to schedule.

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.

newsletters/magazines

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.

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.

organizational membership

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.

Animals from the environment: species of mammals, fish, reptiles, and amphibians. All and some of the habitats for each and thousands of photographs.

outreach programs/speakers

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 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.

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.

**Environmental Education
Outreach Programs**

Available from:

The Wildlife Center of Virginia

These interactive programs which include stories, songs, games, activities, and up-close experiences with native wildlife.

Ordering instructions:

Programs must be scheduled at least three weeks in advance; programs cost \$125 plus travel expenses. Call WCV.

Chesapeake Bay Marine Lab

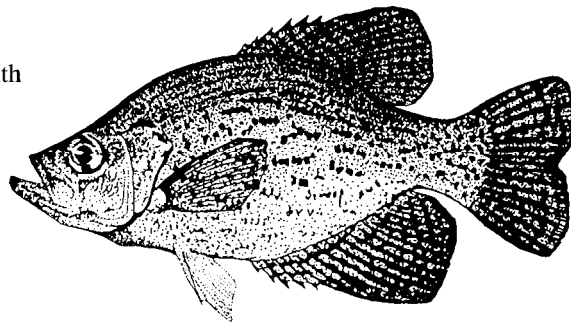
Available from:

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.



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.

FISHES

**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.

**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.

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.

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.

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.

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.

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.

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.

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.

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.

A Question of Balance: Protecting Virginia's Endangered Species

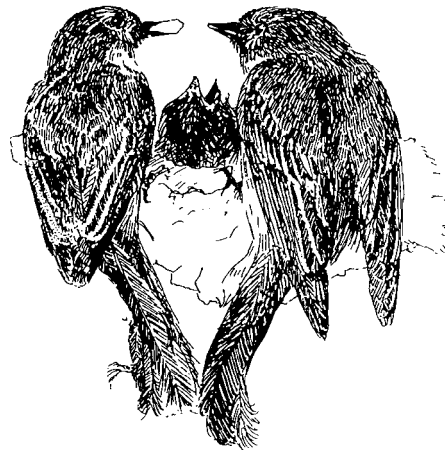
Available from:

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.



youth camps/projects

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.

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.

*Wildlife museum, habitats and activities
available for children in business and
science in United States and Southeastern
Virginia alone*

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

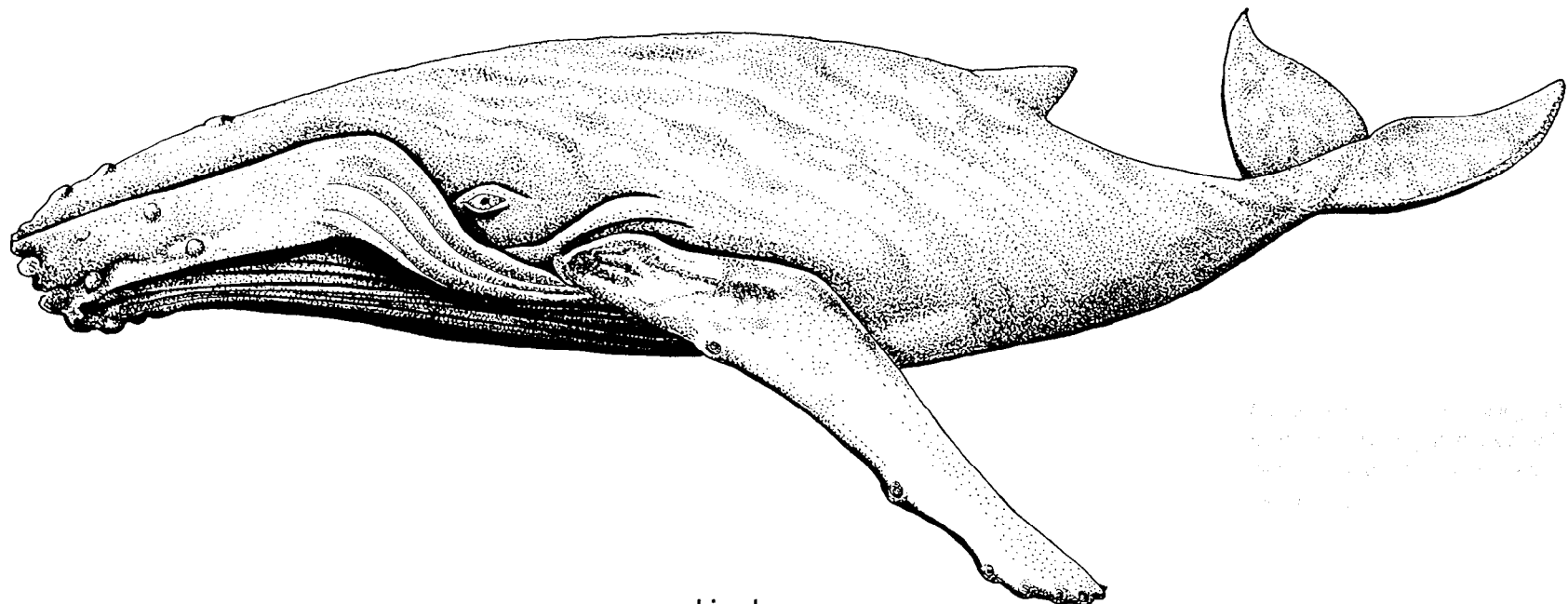
Available from.

Population Reference Bureau

A teaching kit to help students understand the links between population and the environment in the context of sustainable development. Includes a Student Resource Book, Teacher's Guide, World Population Data Sheet and World Environment Data Sheet.

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.

An ecosystem is a community of plants and animals and their interactions within a specific natural environment. Within the biosphere there are smaller ecosystems such as forest ecosystems, pond ecosystems, coral reef ecosystems, marine and fresh water ecosystems.

Sea Level Rise

Available from:

UCAR Office for Interdisciplinary Earth Studies

One in a series of publications on climate and global 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.

***Spaceship Earth: A Global
Geography***

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.

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.

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.

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.



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.

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.

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.

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.

CBF News

Available from:

Chesapeake Bay Foundation

This newsletter is published for CBF members.

Ordering instructions:

Contact CBF for membership 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.

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 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.

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.

Endangered and Threatened 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.

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. Lippson.

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.

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.

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.

School of the Bay

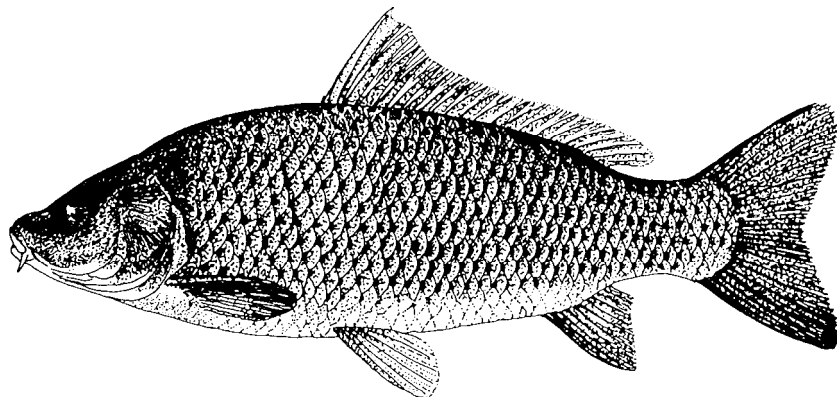
Available from:

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.

Virginia Power Facility Tours

Available from:

Virginia Power - Community Affairs

Tours of power facilities are available to groups.

Ordering instructions:

Contact the VP facility in your area. Schedule at least two weeks in advance.

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.

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.

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.

The Virginia Energy Savers Handbook: A Guide to Saving Energy, Money, and the Environment

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.

videos

**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.

Large quantities of natural gas are being produced in the United States. In 1963, 54 billion cubic feet of natural gas were produced in the United States. In 1964, 57 billion cubic feet of natural gas were produced in the United States. Natural gas has a higher heat energy value than standard grade bituminous coal. Natural gas production in 1963 amounted to over 57 billion cubic feet, valued at more than \$24 million.

***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.

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.

***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.

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.

Heritage Education Resource Kits

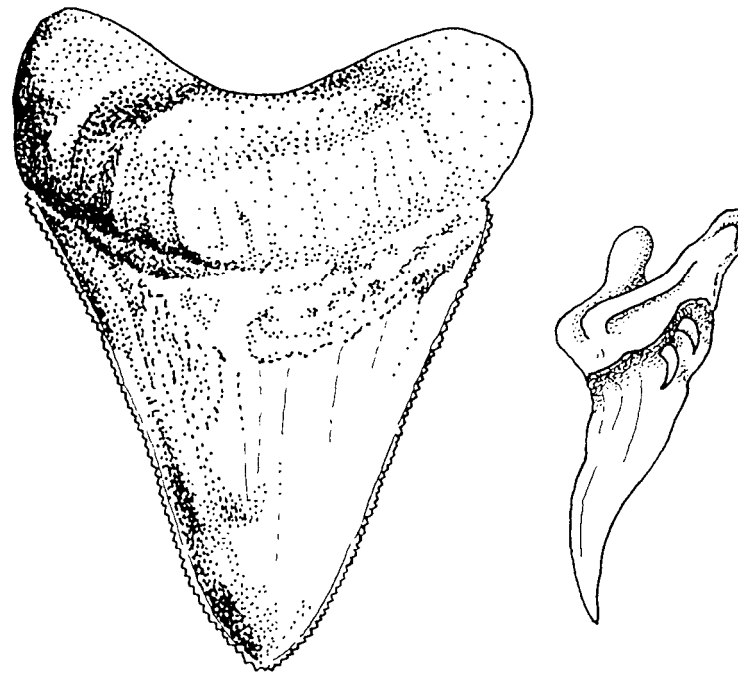
Available from:

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.



***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.

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.

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 VFBB.

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

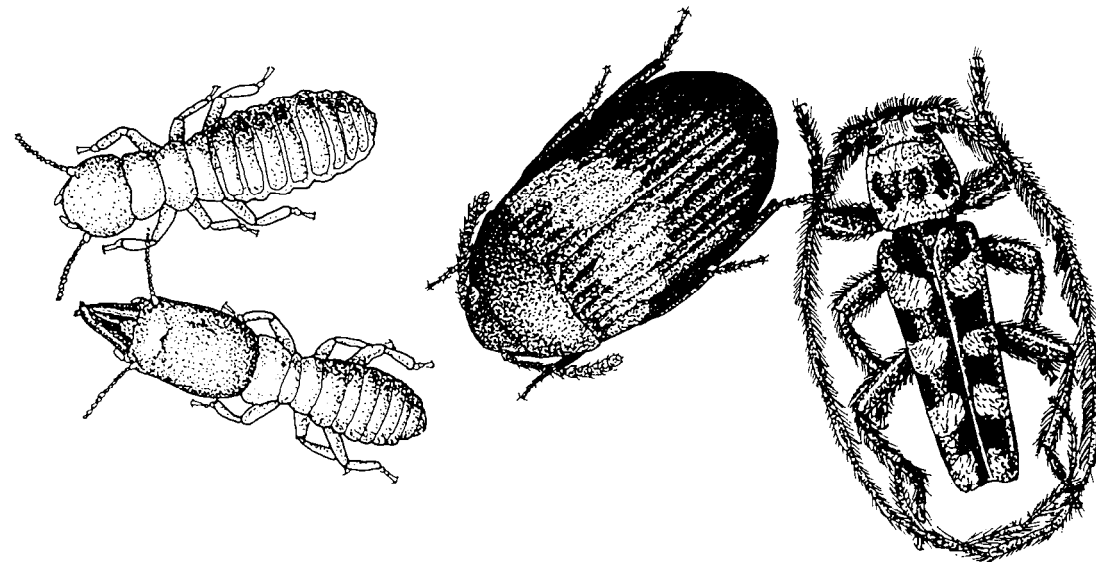
Available from:

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.

The Virginia Angler Program

Available from:

Department of Game and Inland Fisheries

This 8- to 12-hour course/workshop is designed to train educators (primarily physical education) in how to teach basic angling and aquatic resource education in the classroom.

Ordering instructions:

Contact DGIF directly. A minimum of 15 participants is required. Courses are scheduled at various times and locations.

Virginia Boating Education Program

Available from:

Department of Game and Inland Fisheries

Statewide, year-round classes promote safe and ethical boating practices on Virginia's waters.

Ordering instructions:

Call (800) 245-BOAT.

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.

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).

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.

Marine Science Curriculum Guides

Available from:

Virginia Marine Science Museum

A set of guides for teaching about marine science related topics is available for all grades and covers a variety of topics.

Ordering instructions:

Each guide costs \$5; contact VMSM for complete list of titles and ordering information.

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

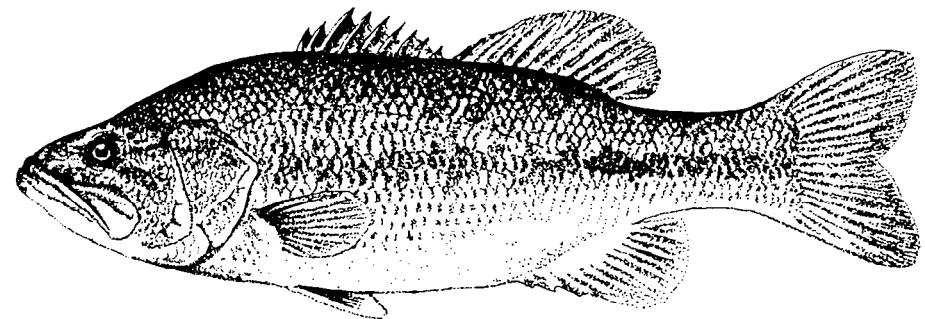
Available from:
Ocean Encounters
Programs in marine science are available to schools, daycare centers, camps, senior centers, libraries, museums, hospitals, home-schoolers, and others. Concepts are taught using hands-on activities and live marine invertebrates.

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.

Commonwealth 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.

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.

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.

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

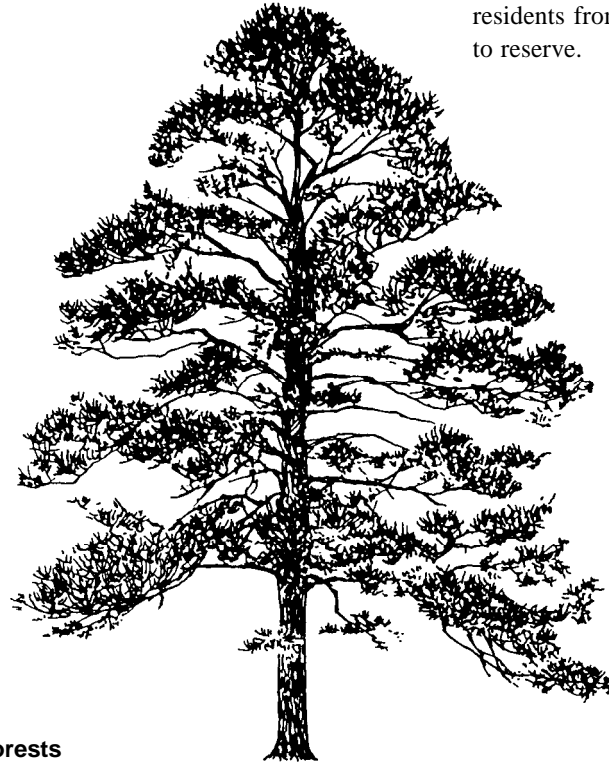
Available from:

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.

*The manufacture of wood products is a
learning state industry.*



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.

There are 146 local recycling programs in Virginia running 601 collection centers and curbside pick-up for nearly 700,000 residences. Many communities are now recycling phone books, white goods, yard waste and magazines as the market for recyclable materials improves.

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.

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.

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.

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

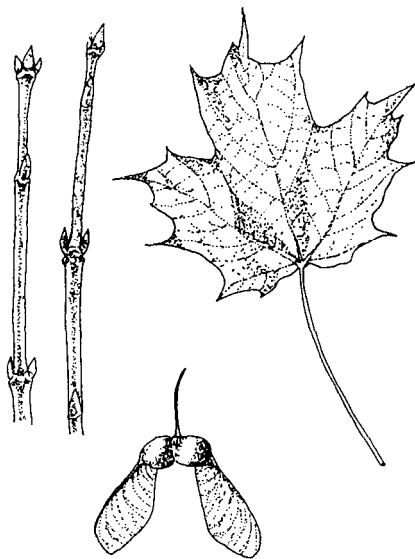
Available from:

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.

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.

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.

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%).

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.

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.

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.

Virginia Center for the Environment
10100 Exploration Blvd, Suite 100
Pound, VA 22124
478-260-1000

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.

For more information on water resources education materials, contact the American Water Works Association, 685 North 17th Street, Denver, CO 80202. Phone: 303-733-9000. Website: www.awwa.org

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.

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..

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.

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

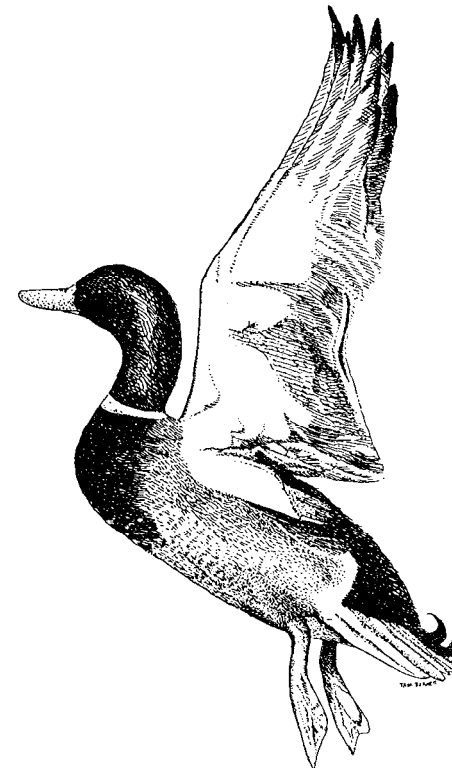
Available from:

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.



slide shows/films

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.

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 free to Virginia residents; others, \$5.

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.

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.

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.

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 week advance notice required) or purchased for \$50 from VWRRC. Also available as a video which can be purchased for \$25.

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.

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.

videos

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.

curriculum materials

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.

publications

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.

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.

videos

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.

Many communities have begun identifying and mapping wetlands to facilitate growth and resource protection



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energy & minerals
land, soil & agriculture
general environmental education
general environmental education
general environmental education
waste management & recycling
animals
trees, plants & forests
biosphere
general environmental education

field trips/tours

Long-distance Environmental Tours
 Marine Science Programs
 Maymont Foundation Field Trips
 Natural History Field Trips
 Natural Science Survey
 Norfolk Botanical Garden
 Rappahannock River Views
 Recycle America Material Recovery Facility Tour
 Site Tours
 Site Tours
 State Arboretum of Virginia Adult Tour Program
 Taskinas Creek Field Trips
 The Mountain Laurel Trail
 Virginia Marine Science Museum
 Virginia Power Facility Tours
 York River Cruises
 Zoo Tours
 Zoo Tours

Audubon Naturalist Society
 Virginia Marine Science Museum
 Maymont Foundation
 Virginia Museum of Natural History
 Virginia Living Museum
 Norfolk Botanical Garden
 Friends of the Rappahannock
 Waste Management of Hampton Roads
 National Fisheries Research Center
 Virginia Museum of Natural History
 State Arboretum of Virginia
 Chesapeake Bay National Estuarine Research Reserve
 National Wildlife Federation
 Virginia Marine Science Museum
 Virginia Power - Community Affairs
 Watermen's Museum
 Mill Mountain Zoological Park
 Virginia Zoological Society

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 marine & aquatic resources
 general environmental education
 general environmental education
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 trees, plants & forests
 general environmental education
 waste management & recycling
 animals
 animals
 trees, plants & forests
 Chesapeake Bay
 general environmental education
 Chesapeake Bay
 energy & minerals
 Chesapeake Bay
 animals
 animals

network/referral services**name**

Chesapeake Regional Information Service
 Greater Rappahannock Environmental Ed Network
 Legislative Hotline
 Resource Clearinghouse

organization

Alliance for the Chesapeake Bay
 Friends of the Rappahannock
 Virginia Environmental Network
 U. S. Environmental Protection Agency - Region III

section

Chesapeake Bay
 general environmental education
 general environmental education
 general environmental education

newsletters/magazines**name**

a fair Bay
 Au Naturel
 Bay Journal
 Bay Watcher Bulletin
 CBF News

organization

Chesapeake Bay National Estuarine Research Reserve
 Virginia Museum of Natural History
 Alliance for the Chesapeake Bay
 Chesapeake Bay Foundation
 Chesapeake Bay Foundation

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 Chesapeake Bay
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newsletters/magazines

Colonial SWCD News
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

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

land, soil & agriculture
general environmental education
general environmental education
land, soil & agriculture
air
general environmental education
animals
general environmental education
animals
general environmental education
general environmental education
land, soil & agriculture
waste management & recycling

organizational membership

name

Friends of the Shenandoah
Trout Unlimited

organization

Friends of the Shenandoah
Trout Unlimited

section

water resources
animals

outreach programs/speakers

name

APCO Speakers Bureau
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

Appalachian Power Company
State Arboretum of Virginia
Richmond Audubon Society
Virginia Marine Science Museum
Clean Valley Council
Colonial Soil and Water Conservation District
The Wildlife Center of Virginia
Department of Game and Inland Fisheries
Valley Conservation Council
John Marshall Soil and Water Conservation District
Ocean Encounters
Mill Mountain Zoological Park

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marine & aquatic resources
animals

outreach/speakers

Outreach Programs
 Recycling in the VPPSA Region
 Speakers Bureau
 Speakers Bureau
 Speakers Bureau
 Speakers Bureau
 The Bay Team
 The Problem of Invasive Exotic Plants
 Virginia Power Classroom Presentations
 Where Have All the Bluebirds Gone?
 Wildlife Speakers

National Aquarium in Baltimore
 Virginia Peninsulas Public Service Authority
 Commonwealth Gas
 Prince William County Litter Control Council
 Virginia's Explore Park
 Versar, Inc.
 VCU - Office of Environmental Studies
 Virginia Institute of Marine Science
 Virginia Native Plant Society
 Virginia Power
 Fauquier Outdoor Lab
 Virginia Wildlife Federation

animals
 waste management & recycling
 air, energy & minerals
 waste management & recycling
 general environmental education
 general environmental education
 general environmental education
 general environmental education
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 energy & minerals
 animals
 animals

name

Chesapeake
 Common Freshwater Fish of Virginia
 Common Saltwater Sportfish of Virginia
 Inside the Chesapeake Bay
 Natural Gas and the Environment
 Roanoke Logperch

organization

Watershed Initiative/The Tides Foundation
 Department of Game and Inland Fisheries
 Department of Game and Inland Fisheries
 Alliance for the Chesapeake Bay
 Commonwealth Gas
 Friends of the Roanoke

section

Chesapeake Bay
 animals
 animals
 Chesapeake Bay
 air
 animals

name

A Citizen's Guide to Litter Control
 A Guide to Septic Systems and Alternatives
 A Property Owner's Guide to Wetlands Permits
 Baybook
 Be Water Wise: Informative Brochure
 Blue Ridge Environmental Network
 Business Recycling Guide
 Chadwick and the Garplegrungen
 Chadwick Forever

organization

Prince William County Litter Control Council
 Virginia Water Resources Research Center
 Virginia Water Resources Research Center
 Alliance for the Chesapeake Bay
 Virginia Water Resources Research Center
 Blue Ridge Environmental Network
 Recycling Association of Central Virginia
 Watershed Initiative/The Tides Foundation
 Watershed Initiative/The Tides Foundation

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publications

Chesapeake Bay: Nature of the Estuary...
Chesapeake Educational Materials Catalog
Conservation Directory
Earth Day Guide: How to Plan, Publicize...
Educational Publications
Endangered and Threatened Wildlife...
Endangered Species Blueprint
Environmental Educator's Resource Guide
Exploring Careers in Agronomy, Crops, and Soils
First People: The Early Indians of Virginia
Getting the Lead Out
Informational Pamphlets
Is Aetosaur a Dinosaur?
John Marshall SWCD Annual Report
Landowner Guide to Wetland Assistance
Life in the Chesapeake Bay
Natural Gas Vehicles, the Clean Way to Go...
One Green Tree
Plants: Improving Our Environment
River Fact Sheets
Recycling and Litter Activities for Teachers
Soil and Water Stewardship Week Materials
Spring Wildflowers of the Blue Ridge Mountains
Springs of Virginia
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
Water in Your Hands
Wetland Flora
Wetlands Technical Reports

Watershed Initiative/The Tides Foundation
Watershed Initiative/The Tides Foundation
National Wildlife Federation
Maymont Foundation
Virginia Institute of Marine Science
Watershed Initiative/The Tides Foundation
National Wilderness Institute
Prince William County Litter Control Council
John Marshall Soil and Water Conservation District
University Press of Virginia
Virginia Water Resources Research Center
Audubon Naturalist Society
Virginia Museum of Natural History
John Marshall Soil and Water Conservation District
Chesapeake Bay National Estuarine Research Reserve
Watershed Initiative/The Tides Foundation
Washington Gas
John Marshall Soil and Water Conservation District
John Marshall Soil and Water Conservation District
Alliance for the Chesapeake Bay
Department of Environmental Quality
John Marshall Soil and Water Conservation District
Blue Ridge Wildflower Society
Virginia Water Resources Research Center
National Energy Education Development Project
Friends of the Rappahannock
John Marshall Soil and Water Conservation District
VA Tech College of Forestry and Wildlife Resources
Department of Mines, Minerals, and Energy
Initiative/The Tides Foundation
Virginia Environmental Network
Virginia Museum of Natural History
John Marshall Soil and Water Conservation District
Virginia Institute of Marine Science
Virginia Institute of Marine Science

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trees, plants & forests
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wetlands
wetlands

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Be Water Wise: Slide Set
 Birds Slide Show
 Discover Wildlife in Your World
 Earth Day Every Day...
 Forests Are More Than Trees
 Fragile Earth
 From the River to the Tap
 Groundwater: Sculptor of Caves
 Land and Water: Managing Growth...
 Let's Clear the Air
 Mission to Planet Earth
 Predators! They're Part of the Picture
 Soil: We Can't Grow Without It
 Spaceship Earth: A Global Geography
 This is Your Land
 Threats to Virginia's Groundwater
 Water: We Can't Live Without It
 We Care About Eagles

organization

Virginia Water Resources Research Center
 Richmond Audubon Society
 National Wildlife Federation
 National Wildlife Federation
 National Wildlife Federation
 NASA CORE
 Virginia Water Resources Research Center
 Virginia Water Resources Research Center
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 NASA Central Operation of Resources for Teachers
 National Wildlife Federation
 National Wildlife Federation
 South Carolina Education Television
 National Wildlife Federation
 Virginia Water Resources Research Center
 National Wildlife Federation
 National Wildlife Federation

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A Planning Guide to Field Study Programs
 A Question of Balance: Protecting Virginia's . . .
 A/V Library
 Archaeology and the Study of Native...
 Business Waste Recycling
 Chesapeake: The Twilight Estuary
 Forests for the Chesapeake Bay
 In Partnership With Earth
 PSAs on Pollution Prevention
 Recycling and Litter Prevention Video Library

organization

Virginia Cooperative Extension Service
 Department of Agriculture and Consumer Services
 Virginia Cooperative Extension Service
 Blue Ridge Public Television
 Clean Valley Council
 Alliance for the Chesapeake Bay
 John Marshall Soil and Water Conservation District
 Versar, Inc.
 Versar, Inc.
 Department of Environmental Quality

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videos

Save Our Streams: A Guide to Water...
 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!

John Marshall Soil and Water Conservation District
 Blue Ridge Public Television
 Prince William County Litter Control Council
 Commonwealth Gas
 John Marshall Soil and Water Conservation District
 Virginia Water Resources Research Center
 Washington Gas
 Steel Recycling Institute

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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
 National Wildlife Federation
 Mill Mountain Zoological Park
 Prince William County Litter Control Council
 Virginia Living Museum

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