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ABSTRACT

This annotated bibliography is a selected guide to teaching resources available to educators interested in environmental education. The resources are located in the Curriculum Resource Center at Rhode Island College. The bibliography is divided into six parts: curriculum guides, textbooks, multi-media kits, visuals, reference materials, and periodicals. A subject index is included to assist teachers in locating material on specific topics. (JRH)

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Curriculum Materials in Environmental Education

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*Bibliography Series
1994 Number 2*



CURRICULUM RESOURCES CENTER

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Rhode Island College

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Facilities

The Curriculum Resources Center makes available a number of retrieval, research, and demonstration facilities. A recently added feature is the Microcomputer Demonstration Room. This facility affords Center users the opportunity to examine a sampling of microcomputer software available for use at the elementary and secondary school levels, as well as a variety of word processing and administrative packages.

Other facilities include: microfiche readers, study carrels, audiovisual preview equipment, computer terminal, card catalog, periodical index, topical bibliographies in education, and photocopy machine.

Use of the Center

All Rhode Island educators, as well as graduate and undergraduate students at Rhode Island College, may use the Center facilities and borrow items from the circulating collection for a two-week period. Selected materials, however, are restricted to on-site use.

The Collection

The Curriculum Resources Center houses a sampling of K-12 instructional materials which may be found in schools in Rhode Island, as well as a cross section of instructional material utilized in New England, other sections of the United States, and other English speaking countries. Professional literature in all teaching fields, related periodicals, and a small reference section are also available.

While the core of the collection focuses on subjects normally included in elementary and secondary school curricula, special collections representing areas of current concern have been developed. The Center also contains a selection of textbooks of historical interest, dating from the mid-nineteenth century to the twentieth century.

In addition, the Curriculum Resources Center maintains extensive catalog files produced by publishers, manufacturers, professional associations, school departments, universities, and curriculum projects. These files provide patrons with information regarding media beyond that housed in the Curriculum Resources Center.

Services

The Curriculum Resources Center staff provides a wide variety of services to its patrons, including:

- Orientation to the collection and instruction in information retrieval.
- Consultation in curriculum development and IMC organization.
- Circulation of a major part of the collection for use by Rhode Island educators and pre-service teachers.
- Evaluation of instructional media through cooperative arrangements with schools and teachers.
- Referral service in information retrieval.
- Bibliographies of current acquisitions.
- Annotated bibliographies of new curriculum areas and topics of current concern in education.

● Materials

- K-12 textbooks
- Curriculum guides
- Indexes and reports of educational research
- Multi-media kits
- Individualized study material
- Science models and laboratory apparatus
- Microfiche collection
- Publishers' catalogs
- Visual aids
- Learning activity packages
- Standardized tests
- Periodicals with reports on new material and curricula
- Autotape cassettes
- Slides
- Records
- Transparencies
- Filmstrips
- Filmloops
- Microcomputer software

● Topic Areas

- Aesthetic education
- Administration & supervision
- Art education
- Audiovisual education
- Bilingual/bicultural education
- Black studies
- Business education
- Career education
- Consumer education
- Curriculum & instruction
- Education of the gifted
- Elementary education
- Environmental education
- Ethnic studies
- Family life & sex education
- Foreign language
- Foundations of education
- Guidance
- Health education
- International education
- Instructional technology
- Language arts
- Mathematics
- Measurement & evaluation
- Music education
- Psychology of education
- Safety education
- Science education
- Secondary education
- Social studies
- Special education
- Teacher education
- Urban education
- Women's studies
- Higher education
- Humanities & vocational education

**CURRICULUM MATERIALS
IN
ENVIRONMENTAL EDUCATION**

COMPILED BY ELIZABETH A. ABBONDENZA

EDITED BY DAVID C. WOOLMAN

**CURRICULUM RESOURCES CENTER
RHODE ISLAND COLLEGE
OCTOBER, 1994**

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INTRODUCTION

Over the last fifty years, ideas about the environment have changed dramatically. Natural resources that once were considered abundant are now in danger of being depleted. We have recognized that overpopulation and overconsumption have had serious effects on the ecosystems of planet earth.

As we race toward the new millennium, we have come to understand that all areas of the environment are inter-related and interdependent. Humans are part of the environment and therefore, it is our responsibility to use our natural resources with care, caution, and respect.

This bibliography is a selected guide to teaching resources available to educators interested in environmental education. All of the resources are located in the Curriculum Resource Center at Rhode Island College. It is my hope that the resources can be used to create a better environment for our future.

The bibliography is divided into six parts: (1) Curriculum Guides (3) Multi-media kits (5) Reference (6) Periodicals (4) Visual File (2) Texts.

A subject index is added to assist teachers in locating material on specific topics.

CURRICULUM GUIDES

- 990 GA G-1 Agriculture in the Classroom.
45-9-2 Sacramento, CA: California
CFAC Foundation for Agriculture in the
1991 Classroom, 1991.
- This booklet contains information on agriculture and the resources to help a teacher integrate agricultural concepts into existing curriculums.
- 990 GA G-2 Audubon Bird Study Program. New York, NY:
45-6 National Audubon Society, 1973.
NAS
n.d.
- This guide is designed to provide information about birds including range, identification, and habits.
- 990 GA G-3 Audubon Ecology Study Program. New York, NY:
45-6 National Audubon Society, 1973.
NAS
n.d.
- This booklet explains how ecology is like a jigsawpuzzle - each piece is important by itself as well as part of the whole.
- 990 GF G-4 Asbestos School Hazard Abatement Act Loan
45-3-2 and Grant Program. Washington, DC:
US/EPA Environmental Protection Agency, 1983.
- This document explains the EPA's policies and procedures for implementing the grant and loan program of the Asbestos School Hazard Abatement Act (ASHAA) of 1984.
- 45-5 G-5 Asbestos School Hazard Program: Loan
US EPA Application Kit. Washington DC: Environmental
1984 Protection Agency, 1983.
- This package can be used to determine eligibility for grants and loans to eliminate asbestos from schools.
- 45-6-6 G-6 Beaches - Rhode Island.
URI Narragansett, RI: Coastal Resources
1983 Center at the University of Rhode Island
1983.
- The value and fragility of the barrier beaches in Rhode Island are detailed in this booklet/poster.

- 990-2-1 G-7 Bibliography of Recreation and Tourism
 URI Research Studies, Reports, Plans and Public
 1984 Information for Rhode Island. Narragansett,
 RI: Marine Advisory Service, 1984.
- This report is intended to serve as a guide to data and information on tourism in Rhode Island.
- 990 GS G-8 Birds. Augusta, ME: Maine State Planning
 45-6-6 Office, 1983.
 MSPO
 1983
- Three different birds are described in these booklets. The wading bird, the piping plover, and the torn are detailed.
- 990 G-9 Birds of the Field. New York, NY: National
 45-6 Audubon Society, 1943.
- A series of booklets designed to inform the student about various birds who live in the field.
- 990 GA G-10 Brine Shrimp and Their Habitat: An
 45-6-6 Investigation into Aquatic Life Cycle:
 NWF Washington DC: National Wildlife Federation,
 1972.
- This booklet attempts to get children interested in the life cycle of brine shrimp and how environment affects this cycle.
- 990 GF G-11 Census of Agriculture: Lesson Plans.
 45-9-2 Washington, DC: Census Bureau, 1992.
 US/DC
 1992
- Lesson Plans designed to teach students (K-12) the fundamentals of agriculture.
- 990 GA G-12 Change in a Small Ecosystem: An Environmental
 45-6-6 Investigation. Minneapolis, Minnesota:
 NWF Minnesota Environmental Series Foundation,
 n.d. Inc., 1971.
- This booklet is about communities and succession. The activities can help students grasp the concept of succession and learn appreciation on how change affects all environmental neighbors.

- 990 GA G-13 Color and Change: An Environmental
45-6-6 Investigation into Magic Colors in Nature.
NWF Washington, DC: National Wildlife Federation,
1972.
- Color change dramatizes the fact nature is a dynamic system in a constant state of flux. The material in this guide is designed to be used with children in grades K-2.
- 990 G-14 Conservation New York, NY: National Audubon
45-6 Society, 1971.
- A series of bulletins designed to explore options for conservation. Included are topics such as grand water tables, water pollution control, and wildlife preserves.
- 990 GA G-15 Contour Mapping: An Environmental
45-6-6 Investigation Into The Ups and Downs of the
NWF Land. Washington, NWFDC: National Wildlife
n.d. Federation, 1972.
- 990 GG G-16 Decision Earth: An Environmental Teaching
45-7 Unit for Grades 7-9. St. Petersburg, FL:
PGES Proctor and Gamble, 1992.
1992
- This packet has a variety of materials for the teacher who wishes to teach a unit on the environment.
- 990 GA G-17 Delaware: A Celebration of its Maritime
45-6-6 Heritage. Newark, DE: University of Delaware,
UD 1982.
- A series of lesson plans designed to celebrate the union of land and water in the making of Delaware history.
- 990 GL G-18 Dirt Holder: Soil Teaching Packet (Gr. K-6).
45-4 Brooklyn, Conn: Windham County Soil and Water
WCSWCD Conservation District, 1984.
1984.
- 990 GA G-19 Dracons Visit Earth To Study Food and the
45-9-2 Land. Ankeny, Iowa: Soil Conservation
SCSA Society, 1984.
1984
- A comic book designed to teach students that food production depends upon soil, water, climate, crops, livestock, and humans.

- 990 GA G-20 Ecology. New York, NY:
45-6 National Audubon Society, 1964.
NAS
n.d. Various ecosystems are examined including
forests, ponds, and the seashore.
- 990 GF G-21 The Ecology of Deep and Shallow Reefs.
45-6-6 Washington, DC: American Society
NOAA of Zoologists, 1983.
1983 This book investigates coastal marine
environments including biological,
geological, and ecological problems.
- 990 GS G-22 Energy Efficient Space and Water Heating.
45-9-2 Falmouth, ME: Maine Audubon Society, 1982.
MAS
1982 This book has two purposes (1) provide
information on current energy use and supply
in Maine and (2) describe tools that
vocational educators can provide to help
students evaluate the performance and cost of
new energy technologies.
- 990 GA G-23 Energy Fact Sheets.
45-6-6 Washington, DC: National Energy Education
Need Development Project, 1990.
1990 Different types of energy are classified and
discussed in this series of fact sheets.
- 990 GC G-24 Energy Resource Catalog: K-12 Curriculum and
45-2-1 Energy Management. Providence, RI:
RIC Rhode Island Collaborative Effort, 1980.
1980 This catalog contains a list of agencies in
the seven state region (Rhode Island,
Massachusetts, Connecticut, Maine, New
Hampshire, New York, and Vermont) which can
provide information and/or services to
educational personnel in the various areas of
energy educational and management.
- 990 GG G-25 Energy Searchbook. New York, New York:
45-9-2 McGraw-Hill Book Company, 1982.
A booklet of lesson plans designed to give
students a sense of the various decisions
people have to make when it comes to the
economy.

990 GL G-26 Environmental Design: Instructional Guide and Resource for Elementary and Secondary School Use. Rockville, Maryland: Montgomery County Public Schools, 1982.

This guide consists of instructional units with suggested resources and appropriate activities for Grade 6-12.

990 GC G-27 Environmental Education Adoption Potential of Inservice Workshop Participants in Developed vs. Developing Countries. Columbus, Ohio: The Ohio Sea Grant Program, Ohio State University, 1987.

A study is conducted to compare the characteristics of teachers in inservice workshops in two different cultures. One in Ohio and two groups in Barbados.

990 GA G-28 Environmental Education for a Sustainable Future. Columbus, Ohio: ERIC Clearinghouse for Science Mathematics, and Environmental Education, 1990.

An ERIC clearinghouse newsletter discussing the latest research and survey in Environmental Education.

990 GS G-29 Environmental Education Resource Guide. Providence, RI: Dissemination Unit (N.D.)

This guide can assist educators (in Rhode Island) on locating materials for Environmental Education.

990 GF G-30 Environmental Hazards in School Washington DC: Environmental Protection Agency, 1989.

The EPA has prepared this resource booklet to provide information on a number of the environmental hazard's children may be exposed to in school buildings.

990 GF G-31 Environmental Hazards In Your School: A
45-3-1 Resource Handbook. Washington, DC: United
EPA States Environmental Protection Agency, 1990.
1990

Environmental hazards in our nation's school are increasingly becoming a concern. The EPA has prepared this Resource booklet to provide information and a numeric of environmental hazards children may be exposed to today in school buildings.

990 GG G-32 Fate and Effects of Oil in the Sea.
45-6-6 N.Y.: Exxon Corp., 1985.
E.C. This booklet provides some answers to the
1985 questions of oil pollution and the impact on
the environment.

990 GA G-33 Fish and Water Temperature: An Environmental
45-6-6 Investigation into How Surroundings Affect
NWF Metabolism. Minneapolis, Minnesota: Minnesota
n.d. Environmental Sciences Foundation, Inc.,
1971.

Temperature and breathing rate of goldfish are shown to be linked. If students can understand this small interrelationship, it may be easier to grasp larger implications of our environment.

990 GS G-34 Focus on: Classroom Energy Materials.
45-9-2 Boston, MA: The Massachusetts Dissemination
MDE Project, 1980.
1980

This collection of energy related educational resources can serve as a reference guide to those interested in exploring current and future energy problems, conservation techniques, and alternative energy sources.

990 GS G-35 A Guide to Curriculum Planning in
45-3-2 Environmental Education. Madison, WI:
WDPI Wisconsin Department of WDPI Public
Instruction, 1985.

This guide was developed to provide assistance and support to school districts in the development of a comprehensive K-12 environmental education program.

990 GS G-36 Guidelines for Controlling Indoor Air Quality Problems Associated With Kilns, Copiers and Welding in Schools. Baltimore, Maryland: Maryland State Department of Education, 1991.

In order to protect school employees, as well as students, this document provides practical guidance to control the emissions from ceramic kilns, copiers, and welding operations.

990 GA G-37 Help Save Their Layers of Life: Rain Forest Washington, DC: National Wildlife Week, 1993.

990 GG G-38 How to Hire An Arborist. Nebraska City NE: The National Arborist Day Foundation, 1989.

An arborist is a specialist who can safeguard trees from long-term consequences of neglect. This booklet teaches students when it is necessary to call on arborist and how to select the right one.

990 GG G-39 Information Cards for Maryland: Mountains to the Sea Learning Stations. Baltimore, MD: National Aquarium in Baltimore, 1984.

A series of cards held together in booklet form to show the various organisms that live in the ocean.

990 GG G-40 Installation Guidelines for Solar DHW Systems. Franklin Research Center, Philadelphia, PA: 1980.

This report is written for the installation contractor and the skilled homeowner on how to install a solar energy system.

990 GG G-41 An Interpretive Atlas of Narragansett Bay. Narragansett, RI: Coastal Resources Center of University of Rhode Island, 1980.

This book synthesizes the present understanding of how Narragansett Bay functions as an ecosystem and to provide a sense of the changing historical role the bay has played in the lives of Rhode Islanders.

- 990 G-42 An Interpretive Program for the Dame Farm.
45-9 Providence, RI: Audubon Society of Rhode
Bureau of Island, 1972.
Soc Ed.
form RIC
- The Dame Farm is owned by the State of Rhode Island. The Farm is a working historical farm used for recreation and environmental education. This guide gives a history of the farm and suggestions for the preservation of its assets.
- 990 GC G-43 Leiderdorp 1980. Dublin, Ireland: Trinity
45-66 College, 1980.
T.C.
n.d.
- This booklet is a set of lesson plans designed to teach students about the reduction of pollution, the rational use of space and natural resources, and how to protect the environment.
- 990 GC G-44 Living Within Our Means: Energy and Society.
45-9-2 New York, NY: The University of the State of
NY 2nd New York.
V2
- This publication provides instructional materials which could enhance understanding of the all-pervasive nature of environmental considerations.
- 990 G G-45 Maine Audubon Society Guide to Marine Energy
45-9-2 Efficiency. Portland ME: Maine Audubon,
Society 1982.
1982
- This book provides information on the problems associated with reliance on non-renewable resources and tools that educators can provide to help students act on their energy awareness.
- 990 GF G-46 Making Connections: Linking Population and
45-7 the Environment (Teacher's Guide)
PRB Washington, DC: Population Reference Bureau,
1991 1991.
- The teacher's guide is designed to help educators better understand the links between population, environment, and sustainable development.

- 990 GF G-47 Making Connections: Linking Populations and The Environment (Student Resource Book)
45-7 Washington, DC: Population Reference Bureau,
PRB 1991.
- This student resource book is designed to expose children to the interrelationship of population and environment.
- 990 G G-48 Man's Habitat - The City: An Environmental Investigation into the Urban Ecosystem.
45-6-6 Minneapolis, Minnesota: Minnesota
n.d. Environmental Investigation, 1971.
- This booklet is designed to help a student with the study of ecology by using his immediate environment - the city.
- 990 GA G-49 Marine Education: A Bibliography of Educational Materials available from the Nation's Sea Grant MASGC College Program.
45-2-1 Ocean Springs, Miss. Sea Grant Program, 1991.
1991
- This bibliography lists textbooks, curriculum materials, and other marine education resources materials.
- 990 GO G-50 Marine Education: A Seagoing Educational Experience. Port Arkansas, TX: The University
45-3-2 of Texas Marine Science Institute, 1982.
VTMSI
- This publication details the program offered by the University of Texas Marine Science Institutes to study the marine environment.
- 990 GC G-51 Marine Magazines In the Classroom.
45-6-4 Narragansett, RI: Sea Grant Marine
RIU Advisory Service, 1978.
- A bibliography of magazines relating to the marine environment.
- 990 GF G-52 Maritime Folklife Resources. Washington,
45-2-1 DC: American Folklife Center, 1980.
AFC
1980
- This is a directory and index of maritime traditions pertaining to the artifacts and lives of those whose communities depend on water-related activities.

- 990 GG G-53 Middle East Oil and Gas. New York, NY:
45-7-1 Exxon Corporation, 1984.
EC
1984
- More than half of the world's oil reserves and a quarter of its natural gas are judged to be in the Region. The impact of these natural resources are examined in this booklet.
- 990 GA G-54 Nature's Part in Act: An Environmental
45-6-6 Investigation Natural Objects. Washington,
NWF DC: National Wildlife Federation, 1972.
n.d.
- 990 GG G-55 Nature Trail at Roger Williams Park
45-6-6 Providence, RI: Perennial Planters' Garden
CH Guide, 1975.
- This guide was written to be a companion on the trails of Roger William Park and to answer questions about nature from inquisitive children.
- 990 GA G-56 Need: Energy Program.
45-6-6 Washington, DC: National Energy Education
Need Development Project, 1990.
GC-38
- This is a group learning approach to energy education.
- 990 GC G-57 New Jersey 4 H Marine Science Project.
45-6-6 New Jersey: Rutgers University, 1987.
1987
- The focus of this project was to educate the youth of New Jersey of the critical decisions affecting the future of the New Jersey marine resources.
- 990 GA G-58 Oaks, Acorns, Climate and Squirrels: An
45-6-6 Environmental Investigation Into Elements of
NW# a Natural Cycle. Washington, DC: National
1971 Wild Federation, 1971.
- This booklet uses the acorn to gather information on environmental factors.
- 990 GF G-59 Oil Pollution. Canada:
45-6-6 Minster of Supply and Services, 1980.
MSSC
1980
- Why oil pollution occurs and how it is cleaned is examined in this booklet.

- 990 GU G-60 Our Fragile Earth: Strategies for Survival
 45-7-1 Providence, RI: Providence Journal and Brown
 DJ/BU University, 1990.
 1990
- This publication explores such questions as, "What sorts of environmental measures work best?", "Where do science and politics collide?", and "How can a single individual help?"
- 990 GA G-61 Outdoor Education. Bloomington, IN: The
 45-3-2 Center on Evaluation Development and
 Research, 1987.
- Activities for a curriculum guide for outdoor/environmental education can be found in this publication.
- 990 GA G-62 Outdoor Fun for Students: An
 45-6-6 Environmental Investigation into Natural
 NWF Resources for Learning.
 n.d. Washington DC: National Wildlife Federation,
 1972.
- The goal of this booklet is to expose students to a variety of activities which demonstrate that creatures interact with their habitat and that students do the same.
- 990 GA G-63 The Parts of a Plant. Washington, DC:
 45-6-4 National Geographic Society, 1986.
 NGS
 1986
- Vivid color photographs help explain the various parts of a plant.
- 990 GS G-64 Passive Solar New Construction for Rhode
 45-9-2 Island. Providence, RI: Rhode Island
 RI GEO Governor's Energy Office, 1981.
 1981
- This booklet will show how solar energy, coupled with energy conservation can result in new homes that are less expensive to operate.

- 990 GS G-65 Passive Solar Retrofit for Rhode Island Homes. Providence, RI: Rhode Island Governor's Energy Office, 1981.
- 45-9-2
RIGEO
1981
- This manual is an illustrated guide to help convert an existing house into a passive solar home.
- 990 GS G-66 The Pawcatuck Watershed Education Program Curriculum Guide. Hope Valley, RI: The Southern Rhode Island Conservation District, 1993.
- 45-9-2
SRICD
1993
- A series of lesson plans designed to explain the concept of watershed.
- 990 GG G-67 Planet Patrol: An Environmental Unit on Solid Waste. Solution for Grades 5-6. Cincinnati, Ohio: Proctor Gamble Educational Services, 1992.
- 45-9-2
FGES
1992
- A set of lesson plans designed to educate students about what can be done about solid waste.
- 990 GA G-68 Plants in The Classroom: An Environmental Investigation. Washington, DC: National Wildlife Federation, 1971.
- 45-6-6
NWF
n.d.
- This booklet has lessons designed for children to investigate the interrelationship of their plants with the environment. Also the students can learn that they can control different variables to produce various results.
- 990 GC G-69 Providence Harbor: A Special Area Management. Providence, RI: Coastal Resources Management Council, 1983.
- 45-1
URI
1984
- Providence Harbor is Rhode Island's largest urban waterfront. This guide documents problems and potential solutions to the port and waterfront issues.

- 990 GC G-70 Relative Effectiveness of Classroom and Documentary Film Presentation on Marine Mammals. Columbus, Ohio: The Ohio Sea Grant Program, Ohio State University, 1987.
- 45-1
OSU
1987
- This study assesses the knowledge and attitude changes resulting from home viewing of the Cousteau Society's documentary.
- 990 GA G-71 The Rise and Fall of a Yeast Community: An Environmental Investigation. Washington, DC: National Wildlife Federation, 1972.
- 45-6-6
NWF
n.d.
- The purpose of this booklet is to acquaint students with a population curve and have them see how easily he is affected by environment.
- 990 GA G-72 Shadows: An Environmental Investigation. Washington DC: National Wildlife Federation, 1972.
- 45-6-6
NWF
- When children explore shadows they are experimenting with spatial relationships. Enabling students to discern spatial relationships is a goal throughout the activities of Shadows.
- 990 GG G-73 Shoreline Erosion in Virginia, Gloucester Point. VA, Virginia: Institute of Marine VIMS Science, 1980.
- 45-9-2
VIMS
1980
- Virginia's coast is a dynamic and active environment. Sound judgement in coastal development is essential to effective control or shoreline erosion.
- 990 GA G-74 Snow and Ice. Washington, DC: National Wildlife Federation, 1972.
- 45-6-6
NWF
- Snow and ice have great ecological significance. The facts comprise the larger concept that water in various forms is a vital and influential element of the environment.

- 990 GA
45-6-6
NWF
n.d. G-75 Soil: An Environmental Investigation into Acidity Moisture, Minerals, and Organisms.
Washington, DC: National Wildlife Federation, 1972.
- This activities can give students a feeling for how various elements of the environment work together in plant-water relationships.
- 990 GA
45-6-6
NWF G-76 A Teachers Preparation for Transect Studies.
Washington, DC: National Wildlife Federation, 1972.
- Transect studies were developed to prevent youngsters from growing up thinking that natural objects are isolated, separate entities.
- 990GA
45-6-6
NWF G-77 Tile Patterns and Graphs: An Elementary Investigation into Elementary Statistics.
Washington DC: National Wildlife Federation, 1972.
- This booklet is designed as an introduction to sampling for elementary students.
- 990 GF
45-9-2
BPA
n.d. G-78 The United States and World Energy.
Washington DC: Bureau of Public Affairs, 1977.
- Energy is a subject with vast international ramifications, this booklet reviews some interrelated diplomatic, commercial, and technical aspects of the global energy picture.
- 990 GC
45-6-4
RIU
n.d. G-79 Using Periodicals In the Science Classroom.
Narragansett, RI: Sea Grant Marine Advisory Service, 1977.
- A guide on how to begin using periodicals to enrich science lessons.
- 990 GA
45-6-6
NWF G-80 Vacant Lot Studies: An Environmental Investigation Washington, DC: National Wildlife Federation, 1972.
- This unit offers some new views of the city. It gives the city child a chance to understand ecology without ignoring the apparent influence of man.

990 G-81 Water Birds, New York, NY: National Audubon
45-6 Society, 1941.

Each booklet has a description of the water birds characteristics. Included are illustrations of the birds in various forms of flight and rest.

990 GF G-82 Water Conservation in New England: A Begins
45-9-2 at Home, Boston, MA: US Environmental
EPA Protection Agency, 1978.
n.d.

Studies and projections by government and private researchers have found many parts of New England face a growing crisis with respect to availability, cost, and quality of fresh water for homes and businesses.

990 G-83 Western Birds, New York, NY: National
45-6 Audubon Society, 1941.

Very specific bird lives in the western part of the United States.

990 GG G-84 Wildlife Refuge and Natural Areas, (map)
45-6-6 Providence, RI: Audubon Society of Rhode
ASRI Island, 1981.

A map of Rhode Island pinpointing Audubon properties and giving descriptions of each .

990 GA G-85 Wind: An Environmental Investigation,
45-6-6 Washington, DC: National Wildlife Federation,
NWF 1972.

Any air movement is a factor in the whole complex of physical events which we call weather. The thrust of the activities in this guide is to get grade-school children more aware of the environment.

CURRICULUM GUIDES IN
KRAUS CURRICULUM DEVELOPMENT
LIBRARY (MICROFICHE) ENVIRONMENT/ECOLOGY

- G-86 Aesthetics and Environmental Education. A Multidisciplinary Resource for Curriculum Development. Wisconsin Department of Public Instruction, Madison, Wisconsin.
Gr. K-12 On-level ENV K*-006 1978
- G-87 Awareness of the Santa Cruz County Environment. Santa Cruz County Office of Education, Santa Cruz, California 1975.
Gr. K-3 On-level ENV K*-010 1979
- G-88 Be a Water Watcher: A Resource Guide for Water Conservation. New York City Board of Education, New York, New York 1987.
Gr. K-12 On level ENV K*-026 1988
- G-89 A Curriculum Activities Guide to Closing the Loop: Integrated Waste Management Activities for School and Home. Institute for Environmental Education. Chagrin Falls, Ohio 1991.
Gr. K-12 On level ENV K*-040 1993
- G-90 Ecology and Conservation Guidelines. Prekindergarten-Grade 8. Newark Public Schools, Newark, New Jersey 1976.
Gr. K-8 On level ENV K*-001 1978
- G-91 Ekistics. Development of an Environmental Education Curriculum. California State Department of Education, Sacramento, California 1973.
Gr. K-12 On level ENV K*-012 1980
- G-92 Energy Activities for the Primary Classroom. California Energy Extension, Sacramento, California 1990.
Gr. K-3 On level ENV K*-035 1992
- G-93 Energy Adventure Center: Activity Book. Wichita Public Schools. Wichita, Kansas.
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- Ecology: Populations, Communities and Communities, and Biomes. Mount Kisco, NY:
Science and Mankind, 1981.
- Many characteristics define population, including density, distribution, and the ways populations increase and decrease in size. This sound slide program examines the problems and concerns about population.
- 990 MMKT K-4
Sec.
Parts I, II.
SM
1978
Parts I, #57
#58
- Ecology: Sampling Methods and Field Techniques.
White Plains, NY: Science and Mankind, 1978.
- Students can gather useful ecological data by learning a few basic skills such as observation, measurement, recording keeping, and data-interpretation.
- 990 KT K-5
AGI
1972
#798
(#18)
- Essence.
Menlo Park, CA:
Addison-Wesley Publishing Co., 1971.
- A kit designed to have children examine their environment in a very concrete way.

- 990 MMKT K-6
CFK
1974
(#13)
- Exploring Ecology.
Washington, DC: National Geographic Society, 1974.
- A set of guides, filmstrips, and cassettes examines the environment of swamps maintains, prairies, and woodland, and rivers.
- 990 MMKT K-7
Sec.
SM
1978
Parts I&II
Kit #59
- Forest and Waters of The North. Parts I,II
White Plains, NY: Science and Mankind, Inc., 1978.
- This sand slide kit explores adaptations of plants and animals that enable them to live in northern environments.
- 990 MMKT K-8
SBE/U
N.D.
#785
#5
- A Lesson from Utah's Prehistoric People.
Salt Lake City: Utah State Board of Education, N.D.
- A audio-visual presentation which explains why it is important to use resources wisely.
- 990 MMKT K-9
Sec
S.M.
1978
#39
- Living with a Limit: Practical Ideas for Energy Conservation. White Plains, NY: Science and Mankind, Inc., 1978.
- Ways in which we can conserve our natural resource are explored in this mutli-media presentation.
- 990 MMKT K10
SEC
S.M.
799A
(#40)
- Living With a Unit: Practical Ideas for Energy Conservation. White Plains, NY: Science and Mankind, Inc., 1978.
- This program is designed to present methods of saving energy in schools names, automobiles and businesses.
- 990 MMT K11
SEC
CH
1971
PTI,II
(#44)
- Man and His Environment In Harmony and In Conflict. White Plains, NY: The Center for Humanities, Inc., 1971.
- This program stresses the importance of man making a conscious effort to live in harmony with nature.

- 990 KT K12 Monument Valley. Salt Lake City: Utah State Board Education, N.D..
- SBE/U
#783
(#3)
- This film strip and cassette teaches students about Monument Valley and its relationship to the importance of the study of geology.
- 990 MMKT K13 Paul Bunyon's Wood Pile. Salt Lake City: Utah State Board of Education, .N.D.
- SBE/U
#784
- The legend of Paul Bunyon is told through this audio-visual presentation. A geological formation in Utah (locally called Paul Bunyon's woodpile) is actually an old volcano: why this formation looks like a wood pile is carefully explored.
- 990 KT K14 Petrified Forest. Salt Lake City: Utah State Board of Education, N.D.
- SBE/U
n.d.
#782
(#2)
- A filmstrip and audiotape presentation explains how petrified forests were created in Utah.
- 990 MMKT K15 The Science Ethics of Population Control: An Overburdened Earth Part I & II.
- Sec
CH
1975
Part 1&2 (#50)
#788B
- White Plains, NY: Science and Mankind, 1975.
- This slide presentation provides a biological basis for discussing human population growth. In addition it encourages students to see the relationship between individual valuables and the decisions necessary for population control.
- 990 KT K-16 Sea Life.
- CFK
NGS
#35
- Washington, DC: National Geographic Society, 1973.
- This slide and tape kit has information that explores the relationship between the inhabitants of the ocean waters and the vast domain of the sea.

990 MMKT K-17
Sec.
GH
#80

The Story of the Everglades.
Pleasantville, NY: Warren Schloat
Productions, 1972.

The Everglades is a watery area filled with plants and wildlife. This filmstrip program is intended to give students an awareness and understanding of this unique and threatened ecosystem.

990 MMKT K-18
Sec.
1978
#48

Understanding Natural Environments: Swamps and Deserts, Part 2. White Plains, NY: Science and S.M. Mankind, 1978.

This program is designed to acquaint students with two significant environment: The swamps of Georgia and Florida.

990 MMKT K-19
CAF
1974
#785A
(#26)

Zero Population Growth: Hope for Future Generations. Wilton, Conn: Current Affairs, 1974.

This filmstrip delves into the causes of the population explosion during the first 50 years of the 20th century; it also examines religious and social aspects of population control.

VISUALS

Access # 797B V 1
Drawer 9C

The Agriculture Connection.
N.P.: N.P., N.D.

A poster showing the relationship between farms and cities.

Access #793B V 2
Drawer 8A

Air Pollution Chart.
Thorndale, PA: Roy G. Scarfo, Inc., N.D.

A poster showing how pollution are affecting man, climate and geography.

Access # 784 V 3
Drawer 10J

Conservation. N.P: Hubbard Scientific Company, 1967.

A flat board illustration of conservation methods.

Access # 789B V 4
Drawer #8A

Don't Let Your Dollars Go to Waste.
Providence, RI: Rhode Island Solid Waste Management Corporation, N.D.

A poster displays the many ways businesses and private citizens can recycle and re-use.

#784B V 5
Drawer

Energy In Your World. N.P: N.P., N.D.

Access #786B V 6
Drawer# 8A

The Environment Sarasota, FL:
Documentary Photo Aids N.D.

25 photographs and cartoons describing the problems with pollution in our environment.

990 V 7
Gen.
Access #792B
Drawer

Flowers Austin, Texas: Shell Oil Company, 1989.

A colorful poster of different flowers that appear during the various seasons of the year.

Access # 787B V 8
Drawer #8A

Forests Are More Than Trees.
Washington, DC: National Wildlife
Federation, 1988.

A poster of raccoons in their natural environment and a booklet explaining the importance of the forest as a habitat for many plants and animals.

Access #790B V 9'
Drawer #8A

Kids In Nature's Defense.
East Haddam, CT: The National
Association for Humane and Environmental
Education, N.D.

A colorful illustration of children interacting with nature.

Access #796B V 10
Drawer 10J

The Living Sea.
St. Paul, MN: Trend Enterprises, 1985.

Seven colorful cutouts illustrate different life forms found in the ocean.

Access #781 V 11
Drawer 6B

Nature is Communities: A Freshwater Pond.
Chicago, IL: Society for Visual
Education, 1973.

A picture story set of seven photographs of the freshwater environment.

Access #794B V 12
Drawer #8A

Noise Pollution Chart.
Downingtown, PA: Scrato Productions,
1983.

A poster visually displays the problems associated with noise.

990 V 13
Access #795
Drawer #8A

Resource Recovery: Worth From Waste.
Washington, DC: National Center
for Resource Recovery, Inc., N.D.

An oversized poster illustrating what happens to solid waste.

RHODE ISLAND AND VICINITY, U.S. GEOLOGICAL
SURVEY QUADRANGLE MAPS

Access # 781B	V 14	<u>Attleboro Quadrangle.</u> (Map)
Drawer #9G		Washington, DC: United State's Geological Survey, 1970.
Access #800A	V 15	<u>Block Island Quadrangle.</u> (Map)
Drawer #9G		Washington, DC: United States Geological Survey, 1970.
Access #794A	V 16	<u>Chepachet Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1970.
Access #795A	V 17	<u>Clayville Quadrangle.</u> (Map)
Drawer		Washington, DC: United States Geological Survey, 1970.
Access #783A	V 18	<u>Coventry Center Quadrangle.</u> (Map)
Drawer #9G		Washington, DC: United States Geological Survey, 1970.
Access # 796A	V 19	<u>Crompton Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1970.
Access #788A	V 20	<u>Blackstone.</u> Quadrangle. (Map)
Drawer #9G		Washington, DC: United State's Geological Survey, 1969.
Access # 784A	V 21	<u>Bristol Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1970.
Access #797A	V 22	<u>East Greenwich Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1970.
Access #792A	V 23	<u>East Killingly Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1970.
Access #797	V 24	<u>East Providence Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1971.
Access #789A	V 25	<u>Fall River Quadrangle.</u> (Map)
Drawer 9G		Washington, DC: United States Geological Survey, 1967.

Access 782B Drawer 9G	V 26	<u>Franklin Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1964.
Access #789A Drawer #9G	V 27	<u>Georgiaville Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #795 Drawer 9G	V 28	<u>Newport Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970
Access #798 Drawer 9G	V 29	<u>Narragansett Pier.</u> <u>Quadrangle</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #799A Drawer 9G	V 30	<u>North Scituate Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #787A Drawer 9G	V 31	<u>Oneco Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #790A Drawer 9G	V 32	<u>Oxford Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1969.
Access #783B Drawer 9G	V 33	<u>Pawtucket Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #796 Drawer 9G	V 34	<u>Providence Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #799 Drawer 9G	V 35	<u>Prudence Island Quadrangle.</u> Map Washington, DC: United States Geological Survey, 1970.
Access # 781A Drawer 9G	V 36	<u>Quonochontaug Quadrangle.</u> (Map) Washington, DC: United States Geological Survey, 1970.
Access #800 Drawer 9G	V 37	<u>Sakonnet Point Quadrangle.</u> (Map) Washington, D.C: United States Geological Survey, 1970.

- Access #785A V 38 Slocum Quadrangle. (Map)
 Drawer 9G Washington, DC: United States Geological Survey, 1970.
- Access # 793A V 39 Thompson Quadrangle. (Map)\
 Drawer 9G Washington, DC: United States Geological Survey, 1970.
- Access # 786A V 40 Tiverton Quadrangle. (Map)
 Drawer 9G Washington, DC: United States Geological Survey, 1970.
- Access 791A V 41 Uxbridge Quadrangle. (Map)
 Drawer 9G Washington, DC: United States Geological Survey, 1969.
- Access #782A V 42 Wickford Quadrangle. (Map)
 Drawer 9G Washington, DC: United States Geological Survey, 1970.
- Access #791B V 43 Sand Dunes. N.P: N.P., N.D.
 Drawer BF
 A vivid poster showing the variety of different types of vegetation found in sand dunes.
- Access #798B V 44 Soils of Rhode Island Landscape.
 Drawer 8A Kingston, RI:
 University of Rhode Island, 1988.
 A map of Rhode Island that has the different soil formation.
- Access # 785B V 45 We Care About Clean Air.
 Drawer 8A Washington, DC: National Wildlife Federation, 1987.
 A poster explaining the concern's about the ozone layer and the effect it has on human beings and animals.
- Access #795B V 46 Water Pollution Chart.
 Drawer 8A Dowington, PA: Scarto Productions n.d.
 Water pollution affects every individual on the earth every person has a responsibility to stop the pollution of the earth's water.

Access #782
Drawer 6B

V 47

Wildlife Series No. 1 Wildlife Drawer
Portrait: Chacalaca, Crane, Avocet, Swan
Iois, Egret, Pintail, Ferret, Bison,
Sheep Pronghorn
N.P.: N.P., N.D.

REFERENCE

- REF
990
SEC
N.A.L.
1992
- R 1
- Ag in the Classroom
Instructional Materials on
Agricultural Education (K-12).
Bellsville, Maryland:
USDA, National Agricultural Library,
1992.
- A bibliography of instructional materials on agricultural education (K-12).
- REF
990 VC
ERIC
1980
- R 2
- Annotated Bibliography
on Aquaculture.
Tallahassee, FL: Educators'
Information Service, 1980.
- A bibliography of materials associated with aquaculture.
- REF
990
Atlas
J. Day
1972
- R 3
- Atlas of Animal Migration.
New York, NY: The John Day
Company, 1972.
- "Why do animals migrate?" and Where do they go" are just some of the questions that are answered in this reference book.
- REF
990 Atlas
RI/U
1976
- R 4
- Atlas of Rhode Island Salt Marshes.
Narragansett, RI:
University of Rhode Island, 1976.
- This publication is an assessment of the costal resources of Rhode Island and serves as the foundation for the development of the Rhode Island Coastal Management Plan.
- REF
990
Atlas
J. Day Co.
- R 5
- Atlas of Wildlife.
New York, NY: The John Day Company,
1972.
- This book is organized to promote the reader's understanding of animal distribution.

REF
990 HBK
SIRS
1981

R 6

Energy.
Boca Raton, FL: Social Issues Resources
Series, 1981.

A collection of 20 articles designed to
facilitate and encourage discussion of
issues in environment.

REF
990 HBK
US/DI
1970

R 7

Mineral Facts and Problems.
Washington, DC: United States Dept. of
the Interior, 1970.

A reference book that discusses the
commodities of minerals.

REF
990 HBK
SIRS
1981

R 8

Population: Volume 3.
Boca Raton, FL: Social Issues
Resources Series, 1981.

A series of articles designed for
students and educators to discuss the
problems and concerns of over-
population.

REF
990 VC
RI/U
n.d.

R 9

The Sawyer Marine Resource Collection.
Narragansett, RI: The Marine Advisory
Serine, N.D.

This bibliography is a systematic
collection of a broad range of
categories dealing with marine life.

PERIODICALS

- P 1 Ag In the Classroom.
Washington DC: US Department of
Agriculture, 1985 - present.
Published bi-monthly
- P 2 Current Journal of Marine Education.
Gloucester Point, VA
National Marine Education Association,
1979 - present.
Publisher four times a year
- P 3 NMEA News
Washington, DC: The National Marine
Education Association, 1984-present.
Published alternating months

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