Directory of Great Lakes Education Material

International Joint Commission

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Preface

The purpose of the Directory of Great Lakes Education Material is to provide a resource for educators and others interested in Great Lakes topics. The material listed here includes a wide range of educational resources, from books and articles to lesson plans and multimedia materials. It is updated periodically to reflect new publications and educational tools.

This fifth edition brings the directory up to date with the latest materials available. We hope that educators and others will find this directory a valuable resource for teaching and learning about the Great Lakes.

The International Joint Commission thanks the many individuals and organizations that contributed to this directory. Their efforts have made the directory a more comprehensive and useful tool for educators and others interested in Great Lakes education.

The International Joint Commission

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International Joint Commission

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These Lakes are Your Lakes

These lakes are your lakes
These lakes are my lakes
From the Long Point Marshes
to the Nipigon Highlands
From the Michigan sand dunes
to the Thousand Islands
These lakes were made
for you and me.

And there beside me
In those clear mirrors
Came summer breezes and autumn colors
And winter snow storms
And springtime flowers
They said: These lakes were made
for you and me.

The Sun was shining
White clouds were drifting
And eagles soaring and rivers throbbing
And fish romancing
The whole Earth dancing
These lakes were made
for you and me.

These lakes are your lakes.
These lakes are my lakes.
From the Long Point Marshes
to the Nipigon Highlands
From the Michigan sand dunes
to the Thousand Islands
These lakes were made
for you and me...yes:
These lakes were made for you and me.

Johnny Biosphere
December 1991
This Fourth Edition of the Directory of Great Lakes Education Material is a result of four surveys sent over the past eight years to more than 3,000 educators and producers of educational materials, and several hundred telephone conversations, to identify materials for use in teaching others about the Great Lakes ecosystem. The Directory has expanded considerably since its first edition, and it is encouraging to see the wealth of materials now available.

The response to the Directory itself is also encouraging. More than 40,000 copies have been provided to educators throughout the region, and the Commission is committed to continuing to encourage teachers to incorporate the Great Lakes into all subjects and grade levels, through the Directory and other educational projects and programs.

This latest edition has some new sections (foundations, miscellaneous), and is also available on 3 1/2" IBM compatible diskette upon request. Prices listed for each reference are for guidance only; check with the source to confirm the most recent cost for materials.

Finally, we encourage you to fill out the attached postcard and let us know about any additions or corrections. The more we hear from you, the users of this Directory, the more we can produce a useful and comprehensive Directory for all educators in the Great Lakes region.

Sally Cole-Misch
Public Affairs Director
International Joint Commission
Great Lakes Regional Office

Beverley Croft
Information Officer
International Joint Commission
Great Lakes Regional Office
**How to use the Directory**

1. Search for entries included in the directory in the *Alphabetical Title Index* section.

**ENTRIES / TITLES**

The alphabetical title index is a quick way to identify the title of each and every item included within.

**FORMAT**

The formats, including Audio-visuals, Books, Booklets, Instructional Materials, Newsletters, Pamphlets, Periodicals/Serials/Journals and Special Reports, are listed in abbreviated form.

**SUBJECT**

Subjects are listed at the top, diagonally and in alphabetical order.

**PAGE**

A more detailed description of each entry can be found on it's associated page, including subject, level, cost and source.

2. You may also search directly in the *Entries/Titles* section to find a complete list of any materials included in this directory.

3. To find the source for ordering your request, go to the *Sources* section. The alphabetical listing includes name, address and telephone/fax number for the distributor of your choice.
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# Format Codes

- **AV** = Audio-visuals
- **BK** = Books
- **BL** = Booklets
- **PA** = Pamphlets
- **IM** = Instructional Materials
- **NL** = Newsletters
- **PR** = Periodicals, Serials, Journals
- **SR** = Special Reports

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<td>37</td>
<td>Our Great Lakes Connection: A Curriculum Guide</td>
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<td>27</td>
<td>Our Great Lakes Heritage</td>
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<td>52</td>
<td>Our Fragile Future</td>
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<td>23</td>
<td>An Overview of Canadian Law and Policy</td>
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<td>Dr. Possibilities, Lake Healing</td>
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<td>38</td>
<td>A Primer on Water</td>
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<td>Rain, Rain Go Away</td>
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**Books (BK)**  **Pamphlets (PA)**  **Instructional Materials (IM)**

**Audio-visuals (AV)**  **Periodicals, Serials, Journals (PR)**  **Newsletters (NL)**
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<td>The Wreck &amp; Rescue of the Schooner J. H. Hartzeli</td>
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<td>The World Game</td>
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<td>Your Water, Your Life</td>
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<td>49</td>
<td>Zebra Mussels in the Great Lakes</td>
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</table>
Audio-visuals
Books
Booklets
Instructional Materials
Newsletters
Pamphlets
Periodicals / Serials / Journals
Special Reports
Audio-visuals

Listed videos may not specifically address the Great Lakes but present interconnected or related issues to the Great Lakes Basin Ecosystem.
ACID DEPOSITION/LEGACY OF IGNORANCE
Format: VHS
Source: The Federation of Ontario Naturalists
Date: 1987
Subject: acid rain's destruction
Length: 35 min
Level: general
Cost: contact source

ACID RAIN
Format: cassette #NJ820223
Source: National Public Radio, Cassette Publishing
Date: 1982
Subject: leading experts trace the origins of acid rain, highlight the difficulties of separating scientific from political and economic questions and explain why the problem is so costly to solve
Length: 30 min
Level: grade 7 - adult/general
Cost: $9.95 US funds

ACID RAIN: THE CHOICE IS OURS
Format: slide/tape program
Source: Minnesota Pollution Control Agency
Date: 1980
Subject: environmental pollution and air emissions
Length: 19 min
Level: all ages
Cost: free loans

AIR, WATER AND SOIL RESOURCES
Format: VHS
Source: Society for Visual Education Inc.
Date: 1990
Subject: videotape and manual of classroom activities focusing on air, water and soil
Length: 12 min 30 sec
Level: grade 7 - 9
Cost: contact source

AMERICA'S INLAND COAST
Format: Beta, 3/4" U-matic and VHS videotape
Source: Bluestem Productions
Date: 1988
Subject: vibrant portraits of American life from the Great Lakes
Length: 56 min
Level: high school - adult
Cost: contact source

BASIN WITHOUT BOUNDARIES
Format: VHS videotape
Source: Center for Environmental Study
Date: 1985
Subject: Great Lakes issues, panel discussion
Length: 57 min 40 sec
Level: high school, college, adult
Cost: rental: $10 US funds

BEACH EROSIONS
Format: eight slides plus worksheet/script
Source: National Earth Science Teachers Association
Date: 1989
Subject: erosions on a small scale, sedimentation, movement
Level: grade 7 - adult/general
Cost: $8 US funds

BEACH PATTERNS: UNITS ONE AND TWO
Format: Unit One: seven slides plus worksheets
Unit Two: six slides plus worksheets
Source: National Earth Science Teachers Association
Date: 1988
Subject: sediment patterns
Level: grades 4 - 12
Cost: $8 US funds for each set

CRISIS IN THE RAIN
Format: VHS videotape
Source: Visual Education Centre
Date: 1983
Subject: transboundary concerns, U.S.-Canadian relations
Length: 27 min
Level: grade 7 - undergraduate
Cost: $95 Cdn funds

EARTH, WIND AND WATER
Format: VHS videotape
Source: National Film Board of Canada
Date: 1988
Subject: 4 titles including: Estuary, Rise and Fall of the Great Lakes, Splash, Gulf Stream
Length: 69 min
Level: all ages
Cost: contact source

ENVIRONMENTAL ISSUES OF LAKE SUPERIOR
Format: slide/tape program
Source: Sigurd Olson Environmental Institute
Date: 1989
Subject: environmental issues of Lake Superior
Length: 28 min
Level: grades 6 - 12
Cost: rental: $7.50 US funds
**Fate of the River**  
*Format:* VHS videotape  
*Source:* Education Through Video Ltd.  
*Date:* 1991  
*Subject:* videotape and comprehensive teacher's manual focuses on watersheds in the Great Lakes Basin Ecosystem  
*Length:* 30 min  
*Level:* grade 7 - adult  
*Cost:* contact source

**Fishing for Answers: How to Reduce the Chemical Content in Sport Fish**  
*Format:* Beta, 3/4" U-matic and VHS videotape  
*Source:* University of Wisconsin-Madison Communications Office  
*Date:* 1991  
*Subject:* features an overview of toxic industrial chemicals and pesticides in sport fish and related health risks in consumption  
*Length:* 13 min  
*Level:* adult  
*Cost:* VHS - $16; Beta, 3/4" U-matic - $25 US funds - also free loans

**Folk Songs of the Great Lakes**  
*Format:* cassettes  
*Source:* Depot Recordings  
*Date:* 1989  
*Subject:* background information and classroom activities on the heritage of the Great Lakes is communicated by song  
*Level:* K-12  
*Cost:* $19.95 US funds (add 10% shipping & handling)

**The Great Lakes**  
*Format:* VHS videotape  
*Source:* Hawkhill Associates, Inc.  
*Date:* 1981  
*Subject:* three filmstrips on videotape bring to life the geology, history and ecology of the Great Lakes region  
*Length:* 57 min  
*Level:* grades 7-12  
*Cost:* purchase: $119; rental: $59 US funds

**The Greatest Lakes**  
*Format:* VHS videotape #11987  
*Source:* in the U.S. from University of Wisconsin Extension, Bureau of Audio-Visual Instruction; in Canada from Visual Education Centre  
*Date:* 1984  
*Subject:* U.S.-Canada relations, scientific approach to restocking sea life in freshwaters  
*Length:* 30 min  
*Level:* grade 7 - adult  
*Cost:* $13 US funds; $85 Cdn funds (shipping & handling extra)

**Great Lakes Environmental Institute at Isle Royale National Park**  
*Source:* Lake Superior Center/ International Joint Commission  
*Format:* VHS videotape  
*Date:* 1991  
*Subject:* a pilot environmental education program sharing information and experiences that infuse the Great Lakes into classroom activities  
*Length:* 30 min  
*Level:* teacher resource  
*Cost:* on loan from sources

**The Great Lakes: Fragile Seas**  
*Format:* VHS videotape  
*Source:* National Geographic Society Educational Services  
*Date:* 1991  
*Subject:* highlights native traditions, history, pollution, recreation, shipping, sportfishing and exotic species  
*Length:* 60 min  
*Level:* grades 5 - 12  
*Cost:* contact source

**Great Lakes in Crisis**  
*Format:* VHS videotape  
*Source:* Education Through Video Ltd.  
*Date:* 1990  
*Subject:* issues relating to the Great Lakes Water Quality Agreement, includes a comprehensive teacher's manual  
*Length:* 60 min  
*Level:* high school / adult  
*Cost:* contact source
### THE GREAT LAKES: OUR JOINT HERITAGE/ TOLLS ON THE SEAWAY/WINTER NAVIGATION ON THE GREAT LAKES

- **Format:** VHS videotape
- **Source:** University of Michigan, Film and Video Library
- **Date:** 1981
- **Subject:** three-part review: 1972 and 1978 Great Lakes Water Quality Agreement; cost recovery for waterways; methods of extending the shipping season
- **Length:** 105 min
- **Level:** grade 7 - adult/general
- **Cost:** loan

### GREAT LAKES: PART 1 - LAKE MICHIGAN AND LAKE SUPERIOR

- **Format:** VHS videotape
- **Source:** University of Wisconsin Extension, Bureau of Audio-Visual Instruction
- **Date:** 1989
- **Subject:** explores the history and importance of the two largest Great Lakes
- **Length:** 26 min
- **Level:** grades 5 - 12
- **Cost:** $13 US funds

### GREAT LAKES: PART 2 - LAKES ERIE, HURON AND ONTARIO

- **Format:** VHS videotape
- **Source:** University of Wisconsin Extension, Bureau of Audio-Visual Instruction
- **Date:** 1989
- **Subject:** story of the Great Lakes region, concentrating on transportation, industry, recreation and scenery
- **Length:** 24 min
- **Level:** grades 5 - 12
- **Cost:** $13 US funds

### GREAT LAKES PEOPLE

- **Format:** VHS videotape
- **Source:** Kannel - Smith
- **Date:** 1991
- **Subject:** the presence of toxic chemicals in the Great Lakes Basin Ecosystem and their effects on human health
- **Level:** grades 7 - adult
- **Cost:** contact source

### THE GREAT LAKES: TROUBLED WATERS

- **Format:** VHS videotape
- **Source:** National Film Board of Canada
- **Date:** 1985
- **Subject:** Niagara Falls drainage basin, pollution by toxic chemicals
- **Length:** 54 min
- **Level:** grade 7 - adult/general
- **Cost:** purchase only; for further information contact NFB library

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### THE HARMONY PUZZLE AND SOLVING THE HARMONY PUZZLE

- **Format:** two VHS videotapes
- **Source:** Access Network
- **Date:** 1989; 1991
- **Subject:** environmental concerns; an overview of sustainable development, what you can do to help
- **Length:** 15 min each
- **Level:** grades 4 - 12, teacher resource
- **Cost:** $200 Cdn funds - includes guide (bulk orders available), copy can be reviewed for purchase

### HOT POTATO

- **Format:** VHS videotape
- **Source:** Center for Environmental Study
- **Date:** 1987
- **Subject:** solid waste problem and the environment; aims to trigger group discussion, clever story line pantomimed
- **Length:** 10 min 45 sec
- **Level:** all ages
- **Cost:** rental: $10 US funds

### INVESTIGATING STREAMS AND RIVERS

- **Format:** VHS videotape
- **Source:** University of Michigan - Dearborn
- **Date:** 1991
- **Subject:** 8 tapes demonstrating 9 tests to determine water quality
- **Length:** 5 - 16 min
- **Level:** teacher resource / general
- **Cost:** $50 US funds for a set of 8

### ISLANDS OF THE SPIRIT

- **Format:** VHS videotape
- **Source:** Apostle Islands National Lakeshore
- **Date:** 1987
- **Subject:** history, flora, fauna, physical setting and visitor opportunities at Apostle Islands National Lakeshore
- **Length:** 25 min
- **Level:** general
- **Cost:** $14.95 US funds plus $1.50 postage & handling (Wisconsin residents add 5% sales tax)

### IT'S FOUND UNDERGROUND

- **Format:** VHS videotape
- **Source:** The Ecology Center of Ann Arbor
- **Date:** 1991
- **Subject:** groundwater resource concerns
- **Length:** 31 min
- **Level:** grades 5 - 9
- **Cost:** $43.95 US funds; $50 Cdn funds (includes shipping & handling)
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<th>Subject</th>
<th>Length</th>
<th>Level</th>
<th>Cost</th>
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<td><strong>THE LAKE AT OUR DOORS/IT’S CLEAR AS MUD/LEGACY OF A GLACIER</strong></td>
<td>VHS videotape</td>
<td>Cleveland State University</td>
<td>1987</td>
<td>three-part series of how the lakes were formed, their geography and water testing in the lakes</td>
<td>120 min</td>
<td>grade 7 - adult/general</td>
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<td><strong>LAKE ERIE PROMISE</strong></td>
<td>VHS videotape</td>
<td>CFPL-TV London News</td>
<td>1989</td>
<td>overview of changes in Lake Erie over the last 20 years</td>
<td>47 min 15 sec</td>
<td>grade 7 - adult/general</td>
<td>contact source</td>
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<td><strong>A LAKE IN THE BALANCE</strong></td>
<td>slide/tape or VHS videotape</td>
<td>Sigurd Olson Environmental Institute</td>
<td>1991</td>
<td>environmental issues, historic sites and environmental health of Lake Superior</td>
<td>22 min</td>
<td>grades 6 - 12</td>
<td>$75 US funds, rental: $7.50</td>
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<td><strong>LONG POINT MARSH</strong></td>
<td>VHS videotape</td>
<td>Visual Education Centre</td>
<td>1984</td>
<td>woodlands, marshlands and wildlife</td>
<td>53 min</td>
<td>high school</td>
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<td><strong>MAKING A DIFFERENCE</strong></td>
<td>VHS videotape</td>
<td>International Joint Commission</td>
<td>1990</td>
<td>educators share information on Great Lakes environmental education programs</td>
<td>13 min</td>
<td>grades K - 12</td>
<td>free on loan</td>
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<td>VHS videotape</td>
<td>The Ecology Center of Ann Arbor</td>
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<td>13 min 30 sec</td>
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<td><strong>MICHIGAN AT RISK: THE NOT-SO-GREAT LAKES</strong></td>
<td>VHS videotape</td>
<td>Michigan Public Broadcasting</td>
<td>1991</td>
<td>Michigan's environmental issues</td>
<td>30 min</td>
<td>high school - adult</td>
<td>contact source</td>
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<td><strong>THE NORTHERN LAKES AND THEIR INHABITANTS</strong></td>
<td>slides and guide #488</td>
<td>Educational Images Ltd.</td>
<td>1981</td>
<td>aquatic life, thermocline, waters in the Great Lakes basin</td>
<td>20 slides with script</td>
<td>grades 3 - 6</td>
<td>$37.95 US funds (plus shipping &amp; handling)</td>
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<td><strong>ONLY ONE EARTH</strong></td>
<td>VHS videotape</td>
<td>Education Through Video Ltd.</td>
<td>1990</td>
<td>NASA footage of the Earth from space, effects of human activities on earth</td>
<td>11 min</td>
<td>general</td>
<td>$49 Cdn funds</td>
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**PADDLE-TO-THE-SEA**

**Format:** cassette or compact disc  
**Source:** Oak Street Music  
**Date:** 1990  
**Subject:** the story of a tiny hand-carved canoe that makes it's way to the sea through the Great Lakes and the St. Lawrence River  
**Length:** 55 min  
**Level:** all ages  
**Cost:** CD: $15.95 Cdn funds (plus $1 shipping & handling); cassette: $9.95 Cdn funds (plus $1 shipping & handling); bulk rates are available

**PADDLE-TO-THE-SEA**  
**Format:** VHS videotape  
**Source:** U.S. Fish and Wildlife Service, Michigan Department of Natural Resources or National Film Board of Canada  
**Date:** 1967 original film; 1989 videotape  
**Subject:** depicts the journey of a hand-carved toy canoe from Canada's northern forests to the sea. Great Lakes and St. Lawrence River wildlife and pollution are shown  
**Length:** 28 min  
**Level:** grades K - 4  
**Cost:** U.S. Fish and Wildlife Service: free loan, (pay return postage); Michigan DNR: $5 rental fee US funds; National Film Board of Canada: $39.95 purchase Cdn funds (plus shipping & handling)

**PERSPECTIVES IN SCIENCE**  
**Format:** VHS, Beta and 3/4" U-matic videotape  
**Source:** National Film Board of Canada  
**Date:** 1989  
**Subject:** video kit in storage case: three one-hour videotapes on toxic waste, water, biotechnology; one introductory videotape on "The Program in Action"; comprehensive teacher's guide  
**Length:** each video one hour  
**Level:** grades 7 - 10, teacher resource  
**Cost:** $249 Cdn funds plus tax

**PETALS OF FLOWER HILL**  
**Format:** slide/tape program  
**Source:** Illinois Environmental Protection Agency  
**Date:** 1985  
**Subject:** slide/tape program with coloring book as a guide; environmental pollution; including posters on hydrology and wastewater treatment process  
**Length:** 15 min  
**Level:** grades K - 5  
**Cost:** free coloring book; loan of slide program

**POLLUTION OF THE GREAT LAKES**  
**Format:** cassette #AT840305  
**Source:** National Public Radio, Cassette Publishing  
**Date:** 1984  
**Subject:** extent and consequences of pollution through interviews with residents, scientists, government and industry officials; examines toxic levels in the lakes, fish and surrounding land and the controversy between Canada and the United States over blame for hazardous waste dumping  
**Length:** 90 min  
**Level:** general  
**Cost:** cassette $11.95, catalog $3 US funds

**PROBLEMS OF CONSERVATION**  
**Format:** VHS videotape  
**Source:** Encyclopedia Brittanica Educational Corporation  
**Date:** 1990  
**Subject:** 3 videotapes on the effects of acid rain  
**Length:** 18 min each  
**Level:** junior high - undergraduate  
**Cost:** $250-$260 US funds

**PROMISES TO KEEP**  
**Format:** slide/tape program or VHS videotape  
**Source:** International Joint Commission, Great Lakes Regional Office  
**Date:** 1980, revised 1989  
**Subject:** toxic chemicals, pollutants, water quality and quantity, remedial action plans and environmental policy  
**Length:** 80 slides or 13 min videotape  
**Level:** undergraduate, adult/general  
**Cost:** free on loan

**PROTECTING OUR DRINKING WATER**  
**Format:** VHS videotape  
**Source:** Minnesota Department of Health  
**Date:** 1991  
**Subject:** radium in drinking water, abandoned wells, home water treatment devices  
**Length:** 9 min 15 sec  
**Level:** high school - adult  
**Cost:** loan only

**REDUCING, REUSING AND RECYCLING: ENVIRONMENTAL CONCERNS**  
**Format:** VHS videotape  
**Source:** Rainbow Educational Video  
**Date:** 1990  
**Subject:** how we can make use of the three R's  
**Length:** 22 min  
**Level:** K - 12  
**Cost:** contact source
### RISE AND FALL OF THE GREAT LAKES
- **Format:** VHS videotape
- **Source:** National Film Board of Canada
- **Date:** 1968
- **Subject:** story of the Great Lakes' geological evolution
- **Length:** 17 min
- **Level:** all ages
- **Cost:** $4 Cdn funds rental with five-day advance notice

### THE SEA LAMPREY STORY PART 1 & 2
- **Format:** filmstrip/cassette
- **Source:** Michigan Sea Grant Publications Office
- **Date:** 1980
- **Subject:** the sea lamprey's life cycle and its effect on Great Lakes fish populations
- **Length:** 16-20 min
- **Level:** grades 3 - 10
- **Cost:** $4 US funds - order # MICHU-SG-80-401,402

### ROUGE RESCUE: LET THE RIVER RUN
- **Format:** VHS videotape
- **Source:** WJBK-TV
- **Date:** 1990
- **Subject:** community involvement in cleaning up the Rouge River
- **Length:** 30 min
- **Level:** grade 5 - adult
- **Cost:** contact source

### SONGS OF THE LAKES
- **Format:** cassette, compact disc
- **Source:** Makenwavez Records
- **Date:** 1987; 1990
- **Subject:** a unique style of traditional sea chants and salt water ballads
- **Level:** general
- **Cost:** $10 US funds

### SAVE OUR STREAMS
- **Format:** VHS videotape
- **Source:** Isak Walton League of America
- **Date:** 1991
- **Subject:** helps citizen access to local waterways by becoming active stream monitors and teaches how to test for pollution
- **Level:** grades 5 - graduate / teacher resource / general
- **Cost:** contact source

### SUPERIOR TODAY
- **Format:** VHS videotape
- **Source:** WNMU-TV, Northern Michigan University
- **Date:** 1991
- **Subject:** documentary explores the formation and history, climate and weather, creatures, human use, pollution and economic development of Lake Superior
- **Length:** 30 min
- **Level:** grade 10 - adult/general
- **Cost:** VHS $25 US funds

### ST. LAWRENCE/GREAT LAKES SYSTEM
- **Format:** VHS videotape
- **Source:** National Film Board of Canada
- **Date:** 1985
- **Subject:** transportation; speed, efficiency, security of using the St. Lawrence Seaway-Great Lakes waterway
- **Length:** 30 min
- **Level:** adult/general
- **Cost:** contact source

### ST. LAWRENCE: STAIRWAY TO THE SEA
- **Format:** VHS videotape
- **Source:** National Film Board of Canada
- **Date:** 1982
- **Subject:** Great Lakes, exploration by Jacques Cousteau
- **Length:** 96 min
- **Level:** grades 4 - adult/general
- **Cost:** rental; for further information contact NFB library, transit time not included in rental

### SWEEPERS OF THE SWEETWATER SEAS
- **Format:** VHS videotape
- **Source:** Hamilton Productions Inc.
- **Date:** 1991
- **Subject:** pollution and cleanup efforts in the Great Lakes
- **Length:** 27 min 30 sec
- **Level:** grade 6 - adult/general
- **Cost:** $39.95 US funds (plus shipping & handling)

### TESTING THE WATERS
- **Format:** VHS, 3/4" U-matic videotape
- **Source:** Bullfrog Films
- **Date:** 1989
- **Subject:** charting a future for the Niagara River
- **Length:** 57 min; three parts for classroom use
- **Level:** grade 9 - adult
- **Cost:** purchase: VHS-$350, 3/4" U-matic-$365; rental: $75 US funds
### Too Much Mussel
- **Format:** VHS videotape
- **Source:** Ohio Sea Grant College Program
- **Subject:** an overview of the zebra mussel impact to Lake Erie
- **Length:** 5.5 min
- **Level:** general audience
- **Cost:** $15 US funds

### The Trouble with Toxics
- **Format:** VHS or 3/4" U-matic videotape
- **Source:** Michigan Sea Grant College Program
- **Date:** 1987
- **Subject:** the challenge of dealing with the hundreds of contaminants in the Great Lakes
- **Length:** 30 min
- **Level:** grade 8 - adult/general
- **Cost:** VHS - $35 US funds; 3/4" U-matic - $75; rental $10 for five days (make checks payable to Michigan State University)

### The Underlying Threat
- **Format:** VHS videotape
- **Source:** Bullfrog Films
- **Date:** 1990
- **Subject:** groundwater pollution
- **Length:** 48 min 14 sec
- **Level:** grades 7 - adult
- **Cost:** VHS $285; rental $75 US funds

### Warnings on the Wind
- **Format:** VHS videotape
- **Source:** Center for Environmental Study
- **Date:** 1987
- **Subject:** sources, pathways and fates of airborne toxics in the Great Lakes
- **Length:** 28 min
- **Level:** grade 7 - adult/general
- **Cost:** $40; rental $10 US funds

### Water Environment Curriculum Series
- **Format:** VHS videotape
- **Source:** Water Pollution Control Federation
- **Date:** 1987-89
- **Subject:** award-winning water quality series featuring four units on groundwater, surface water, wastewater treatment and water conservation
- **Length:** 10 min
- **Level:** grades 5 - 9
- **Cost:** $49 each US funds includes teacher and student guides (plus postage & handling)

### Water Resource Series
- **Format:** 3 filmstrip/cassette tape sets
- **Source:** Michigan Department of Natural Resources, Office of the Great Lakes
- **Contents:** each kit contains a filmstrip/cassette tape program, teacher’s manual, supplemental materials, references, and suggested activities
- **Subject:** 1) Understanding Lake Ecology: photosynthesis, food chains, lake succession, watershed patterns, stratification, the energy cycle and human effects 2) Understanding Groundwater: Michigan’s geologic history, characteristics and occurrence of groundwater, long-term effects of groundwater pollution, and the problem of cleaning up contaminated aquifers 3) Understanding Wetlands: role of wetlands in water retention, groundwater recharge, shoreline protection, and sediment trapping; species and habitat diversity, ecology, and interdependence of wetland communities
- **Emphasis:** ecology, biology, physical sciences
- **Level:** grade 5 - adult
- **Cost:** $29.95 each or all three kits for $69.95 US funds

### Waterwalker
- **Format:** VHS and Beta videotape
- **Source:** CHV Communications, Inc.
- **Date:** 1986
- **Subject:** Lake Superior and its tributaries, canoeing, water quality, aesthetics, art, ethics
- **Length:** 90 min
- **Level:** adult/general
- **Cost:** contact source

### The Wreck and Rescue of the Schooner J.H. Hartzell
- **Format:** VHS videotape
- **Source:** Brauer Productions
- **Date:** 1988
- **Subject:** re-creation of the true story of a nineteenth century shipwreck
- **Length:** 58 min
- **Level:** adult/general
- **Cost:** $39.95 US funds (plus tax & shipping)

### Your Water, Your Life
- **Format:** VHS videotape
- **Source:** Education Through Video Ltd.
- **Date:** 1988
- **Subject:** groundwater and chemical contamination of water
- **Length:** 30 min
- **Level:** high school - adult
- **Cost:** contact source
Books

Most books listed in this section can be obtained in bookstores and libraries according to their ISBN number.
<table>
<thead>
<tr>
<th>Book Title</th>
<th>Author</th>
<th>Source</th>
<th>Date</th>
<th>Subject</th>
<th>Level</th>
<th>Cost</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beneath The Inland Seas</td>
<td>Halsey, John</td>
<td>Michigan Department of State - Bureau of History</td>
<td>1990; 64 p.</td>
<td>Michigan's underwater archaeological heritage</td>
<td>high school - adult</td>
<td>$6.95 US funds (plus shipping &amp; handling); bulk orders available</td>
<td>0-935719-15-6</td>
</tr>
<tr>
<td>By Canoe and Moccasin</td>
<td>Johnston, Basil</td>
<td>Waapoone Publishing &amp; Promotion</td>
<td>1986</td>
<td>the native meaning of place names: lakes, rivers, islands and cities in the Great Lakes</td>
<td>grades 3 - 6</td>
<td>$8.95 Cdn funds (plus $1 shipping &amp; handling)</td>
<td>0-9692185-1-6</td>
</tr>
<tr>
<td>Cargo Carriers in the Great Lakes</td>
<td>LeStrange, Jacques</td>
<td>Harbor House Publishers</td>
<td>1985</td>
<td>past and present of the cargo carriers in the Great Lakes, includes hundreds of photos</td>
<td>high school - adult</td>
<td>$10.50 US funds</td>
<td></td>
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<tr>
<td>Cross Border Litigation: Environmental Rights in the Great Lakes Ecosystem</td>
<td>Muldoon, Paul R., Scriven, David A. and Olson, James M.</td>
<td>Carswell Legal Publications</td>
<td>1986; 410 p.</td>
<td>Great Lakes pollution, catalog and explanation of laws, precedent-setting cases</td>
<td>undergraduate, graduate, teacher resource</td>
<td>$80 Cdn funds</td>
<td>0-8476-7398-7</td>
</tr>
<tr>
<td>Distant Shores</td>
<td>Olsenius, Richard</td>
<td>Bluestem Productions</td>
<td>1990; 112 p.</td>
<td>full-color photographs and accompanying music cassette from Lake Superior and Lake Michigan areas</td>
<td>high school - adult</td>
<td>$29.95 US funds</td>
<td></td>
</tr>
<tr>
<td>Earthwatch III</td>
<td>University of Wisconsin-Madison</td>
<td></td>
<td>1990; 160 p.</td>
<td>third in a series - covers most environmental topics with an emphasis on the Great Lakes region</td>
<td>elementary - high school</td>
<td>$3.50 US funds (bulk orders available)</td>
<td></td>
</tr>
<tr>
<td>Environmental Diplomacy: An Examination and a Perspective of Canadian-U.S. Transboundary Environmental Relations</td>
<td>Carroll, John</td>
<td>University of Michigan Press and John Wiley &amp; Sons Canada, Ltd.</td>
<td>1986; 382 p.</td>
<td>environmental policy, international cooperation, flooding, toxic substances, water and air quality</td>
<td>undergraduate, graduate, adult/general</td>
<td>$24.95 US funds</td>
<td>0-472-10029-7</td>
</tr>
<tr>
<td>Erie: The Lake That Survived</td>
<td>Burns, Noel M.</td>
<td>Rowman &amp; Allanheld Publishers</td>
<td>1985; 340 p.</td>
<td>details the history, processes, biology and cleanup of Lake Erie</td>
<td>undergraduate, adult</td>
<td>$34.95 US funds</td>
<td>0-8476-7398-7</td>
</tr>
<tr>
<td>Freshwater Seas</td>
<td>Between the Lines</td>
<td></td>
<td>1990; 205 p.</td>
<td>a fascinating case study of how we have changed and degraded the natural environment</td>
<td>adult</td>
<td>$19.95 Cdn funds soft cover; $34.95 Cdn funds hard cover</td>
<td>0-921284-19-5; 0-921284-18-7</td>
</tr>
</tbody>
</table>
**The Great Lakes**
Author: Tovell, Walter Massey
Source: Royal Ontario Museum Bookstore
Date: 1979
Subject: geology, pollution
Level: grades 6 - 10
Cost: $2.25 Cdn funds

**The Great Lakes Economy: A Resource and Industry Profile of the Great Lakes States**
Author: Great Lakes Commission
Source: Harbor House Publishers
Date: 1985
Subject: Great Lakes, economic conditions, industry
Level: grade 10 - adult/general
Cost: $27.50 US funds
ISBN: 0-937360-07-4

**Great Lakes, Great Legacy**
Author: Colborn, Theodora E. et al.
Source: The Conservation Foundation / The Institute for Research on Public Policy
Subject: reviews status of pollution and its effects on all species, calls for cooperation at all levels of government to protect human health and natural resources in the Great Lakes basin
Date: 1990
Level: adult
Cost: $22 US funds
ISBN: 0-89164-115-7

**Great Lakes Lakefills**
Source: Lake Michigan Federation - Chicago
Date: 1991; 61 p.
Subject: a survey of federal, state and municipal laws, policies and regulations in the US
Level: adult
Cost: $10 US funds (plus $2 postage & handling)

**The Great Lakes Region in Children’s Books: A Selected Annotated Bibliography**
Source: Green Oaks Press Publishers
Date: 1980; 481 p.
Subject: annotated listing of curriculum-oriented books about the lakes and the bordering states
Level: grades 4 - 7, teacher resource
Cost: $16.95 US funds
ISBN: 0-931600-01-4

**Great Lakes Shipwrecks and Survivals**
Author: Ratigan, William
Source: Apostle Islands National Lakeshore
Date: 1977; 384 p.
Subject: illustrated paperback detailing Great Lakes shipwrecks; Edmund Fitzgerald edition
Level: high school - adult
Cost: $12.95 US funds plus $1.50 postage & handling (Wisconsin residents add 5% sales tax)

**Great Stories of the Great Lakes**
Author: Boyer, Dwight
Source: Dodd, Mead Publishers
Date: 1985; 272 p.
Subject: thrilling tales of tragedy, humor and heroism on the world’s greatest freshwater seas
Level: adult
Cost: $9.95 US funds

**A Guidebook to the Geology of Lake Superior's Apostle Islands National Lakeshore**
Author: Nuhfer, Edward and Dalles, Mary
Source: Apostle Islands National Lakeshore
Subject: a guide to area geology
Level: grade 6 - adult
Cost: $5 US funds plus $2 postage & handling (WI residents add 5.5% sales tax)

**The Inland Seas: A Journey Through the Great Lakes**
Author: Vasey, Paul
Source: Chartwell Books, Inc.
Date: 1987; 144 p.
Subject: history of the lakes and their significance in the lives of the people who live in the region
Level: undergraduate - adult
Cost: $22.50 Cdn funds

**Lake Superior Shipwrecks**
Author: Wolff, Julius F. Jr.
Source: Lake Superior Port Cities Inc.
Date: 1990
Subject: a reference book with stories, maps, charts and historical information
Level: adult / reference
Cost: $34.95 US funds soft cover
ISBN: 0-942235-01-0
**THE LATE, GREAT LAKES: AN ENVIRONMENTAL HISTORY**
Author: Ashworth, William  
Source: Random House  
Date: 1986; 276 p. and 261 p.  
Subject: history of Great Lakes: geology, human use, pollution, environmental quality, diversions  
Level: grade 10 - adult/general  
Cost: $12.95 soft cover; $22.95 hard cover US funds (plus shipping & handling)  
ISBN: 0-394-55151-6

**LIFE ON THE GREAT LAKES: A WHEELSMAN'S STORY**
Author: Dutton, Fred W.  
Source: Wayne State University Press  
Date: 1991; 176 p.  
Subject: a gathering of insightful personal experiences by a wheelsman  
Level: adult  
Cost: $29.95 hard cover, $14.95 soft cover US funds

**NO PLACE TO HIDE? GREAT LAKES POLLUTION AND YOUR HEALTH**
Author: Boyer, Dr. Barry  
Source: State University of New York at Buffalo (Great Lakes Program)  
Date: 1991  
Subject: Great Lakes pollution - environmental and human health issues  
Level: general audience  
Cost: $5 US funds, $6 Cdn funds (includes postage & handling)

**PADDLE-TO-THE-SEA**
Author: Holling, Holling C.  
Source: Houghton Mifflin Company  
Date: 1941  
Subject: adventures of a wooden canoe discovering the Great Lakes  
Level: grades 4 - 6  
Cost: $17.95 hard cover, $7.95 soft cover US funds  
ISBN: 0-395-15082-5; 0-395-29203-4

**PERSPECTIVES ON ECOSYSTEM MANAGEMENT FOR THE GREAT LAKES**
Author: Caldwell, Lynton K.  
Source: State University of New York Press  
Date: 1988; 320 p.  
Subject: implementation of binational agreements to actualize an ecosystem approach  
Level: undergraduate - graduate, adult  
Cost: $44.50 hard cover, $16.95 soft cover US funds  

**SHIPWRECK!**
Source: Harbor House Publishers  
Date: 1992  
Subject: lists over 3,500 shipwrecks in the Great Lakes  
Level: high school - adult  
Cost: $19.95 US funds

**THE ST. LAWRENCE RIVER: IT'S ECONOMY AND ENVIRONMENT**
Source: The Center for the Great Lakes  
Date: 1989; 40 p. (available in english & french)  
Subject: examines the St. Lawrence River's contribution to the region's development and quality of life; recommends action for toxic contamination cleanup  
Level: general  
Cost: $12 US funds, $15 Cdn funds

**THE SWEET WATER SEA: A GUIDE TO LAKE HURON'S GEORGIAN BAY**
Author: Cahn Brazer, Marjorie  
Source: Heron Books  
Date: 1987  
Subject: guide to cities and villages along Georgian Bay  
Level: high school  
Cost: $18.95 Cdn funds  

**TO THE LAST DROP**
Author: Keating, Michael  
Source: Macmillan of Canada  
Date: 1987; 265 p.  
Subject: acid rain, toxic contamination, water shortages  
Level: grade 10 - adult/general  
Cost: $25.95 Cdn funds  

**TOXIC CONTAMINATION IN LARGE LAKES**
Author: Schmidtke, Norbert W.  
Source: Lewis Publishers, Inc.  
Date: 1986; 1800 p.  
Subject: a four-volume set of proceedings from the 1986 World on Large Lakes on Mackinac Island; emphasis on an integrated approach to examining toxic pollution in large lakes  
Level: adult  
Cost: $199.80 US funds  
ISBN: 0-87371-088-6
**UNDER RAPs: TOWARD GRASSROOTS**  
**ECOLOGICAL DEMOCRACY IN THE GREAT LAKES BASIN**  
*Authors:* Hartig, John and Zarull, Mike  
*Source:* University of Michigan Press  
*Date:* 1992  
*Subject:* outlines efforts by individuals and groups to restore and preserve the Great Lakes  
*Level:* adult  
*Cost:* $45 hard cover, $22.95 soft cover  
*US funds (plus postage & handling, bulk discounts available)*  
*ISBN:* 0-472-08175-6

**VISIONS 2020 - ONTARIO'S YOUTH, ONTARIO'S FUTURE**  
*Source:* Public Focus  
*Date:* 1989, 1990; 177 p.  
*Subject:* collectively written by Ontario students, who set their vision for a healthy environment by the year 2020  
*Level:* high school - adult  
*Cost:* $5 Cdn funds (includes taxes, shipping & handling)  
*ISBN:* 0-9694517-0-9

**VISIONS 2020: - YOUTH, ENVIRONMENT AND THE FUTURE**  
*Source:* Public Focus  
*Date:* 1991; 187 p.  
*Subject:* collectively written by Canadian students who set their vision for a healthy environment by the year 2020  
*Level:* high school  
*Cost:* $12.27 Cdn funds (includes taxes, shipping & handling); group rates available  
*ISBN:* 0-9694517-1-7

**WATERWORKS**  
*Source:* Harbor House Publishers  
*Date:* 1991  
*Subject:* a survey of Great Lakes - St. Lawrence waterfront development  
*Level:* adult  
*Cost:* $16.95 US funds
AIR POLLUTION
Source: Air and Waste Management Association
Date: 1992
Subject: introduction to air pollution; issues for the general public and students
Level: grades 6 - adult / general public
Cost: contact source, bulk orders available for a minimal charge

A CANADIAN GREAT LAKES AGENDA FOR THE 1990s
Source: Great Lakes United
Date: 1991
Subject: implementing the Great Lakes Water Quality Agreement
Level: adult
Cost: free

THE CHALLENGE: RESTORING THE GREAT LAKES
Source: U.S. Fish and Wildlife Service
Date: 1990
Subject: the importance of the Great Lakes, their problems and remedies for restoration
Level: adult
Cost: contact source

CITIZEN ACTION IN DEVELOPING CLEANUP PLANS FOR THE 42 GREAT LAKES TOXIC HOT SPOTS
Source: Great Lakes United
Date: 1987; 16 p.
Subject: report from a remedial action plan workshop for citizen and community leaders on toxic materials and water pollution
Level: high school - undergraduate and graduate
Cost: $5 US funds

A CITIZEN'S GUIDE TO CONTAMINATED SEDIMENT CLEANUP
Source: Lake Michigan Federation - Chicago
Date: 1989; 32 p.
Subject: assessing contaminant levels, dredging techniques, laws and programs (U.S./Canada), choices for the future
Level: undergraduate, teacher resource
Cost: $5 US funds or $6 Cdn funds

A CITIZENS’ GUIDE TO THE GREAT LAKES WATER QUALITY AGREEMENT
Authors: Eder, Tim and Jackson, John
Source: Great Lakes United
Date: 1988
Subject: this booklet outlines the purpose and potential of the Agreement; promises of the 1972 and 1978 Great Lakes Water Quality Agreements are discussed
Level: adult, teacher resource
Cost: $2 US funds

A CITIZEN’S GUIDE TO UNDERSTANDING MEASUREMENTS OF TOXIC AND RADIOACTIVE CONCENTRATIONS
Source: Citizens Environmental Coalition
Date: 1990
Subject: outlines measurement units used to describe toxic and radioactive waste pollution
Level: adult
Cost: $3 US funds

DRINKING WATER
Source: Concern, Inc.
Date: 1991
Subject: complex issues of water management and protection with guidelines for public participation, also available are booklets on farmlands, global warming, energy choices, household waste and groundwater
Level: general
Cost: $5.50 US funds (includes postage & handling); special price for bulk orders

GLOBAL CHANGE SCENARIOS FOR THE GREAT LAKES REGION
Source: Ohio Sea Grant Education Program
Date: 1991
Subject: the most recent information available on a variety of subjects relating to the effects of global change on the Great Lakes region
Level: general public / teacher resource
Cost: contact source

THE GREAT LAKE ERIE
Authors: Fortner, Rosanne W. and Mayer, Victor J.
Source: Ohio Sea Grant Education Program
Date: 1987
Subject: basic information about the Great Lakes through interpretation by experts
Level: junior high - adult
Cost: $15 US funds
| **GREAT LAKES CRUISE HANDBOOK** |
| **Source:** Harbor House Publishers |
| **Date:** updated annually |
| **Subject:** a guide to cruises, excursions and ferry services on the Great Lakes and St. Lawrence River |
| **Level:** adult |
| **Cost:** $2.50 US funds |

| **GREAT LAKES EDUCATION PROGRAM BOOKLET** |
| **Source:** Michigan Department of Natural Resources - Office of the Great Lakes |
| **Date:** 1990 |
| **Subject:** promotes a better understanding of the importance of the Great Lakes through science, history and environmental education. Includes visual aids |
| **Level:** teacher resource |
| **Cost:** contact source |

| **THE GREAT LAKES PRIMER** |
| **Source:** Pollution Probe Foundation |
| **Date:** 1986 |
| **Subject:** science, history and environmental education to help students to acquire an understanding of the importance of the Great Lakes. Includes visual aids |
| **Level:** undergraduate, teacher resource |
| **Cost:** $6 Cdn funds |

| **GREAT LAKES - ST. LAWRENCE RIVER REGULATION** |
| **Source:** Environment Canada Great Lakes Water Levels Communications or US Army Corps of Engineers |
| **Date:** 1990 |
| **Subject:** what do regulations mean and how do they work? |
| **Level:** high school |
| **Cost:** free |

| **GREAT LAKES WATER LEVELS** |
| **Source:** Environment Canada, Great Lakes Water Levels Communications |
| **Date:** 1985; reprinted 1987; 1989 |
| **Subject:** Great Lakes geology, hydrology, causes and effects of levels fluctuations, forecasts (available in English & French) |
| **Level:** grades 7 - adult/general |
| **Cost:** free |

| **A GUIDEBOOK TO DROUGHT PLANNING, MANAGEMENT AND WATER LEVEL CHANGES IN THE GREAT LAKES** |
| **Source:** Great Lakes Commission |
| **Date:** 1990; 64 p. |
| **Subject:** addresses drought events and their impacts on Great Lakes water levels and the coastal zone |
| **Level:** adult |
| **Cost:** $5 US funds, $7 Cdn funds |

| **HAZARDOUS WASTES FROM HOMES** |
| **Source:** Enterprise for Education Inc. |
| **Date:** 1990 (in revision) |
| **Subject:** what kind of wastes are hazardous and what to do with common household wastes, plus a 60 page teacher's guide |
| **Level:** grades 7 - 12, teacher resource |
| **Cost:** $5 US funds (plus $2 postage & handling); bulk orders available |

| **A PROFILE OF LAKE ST. CLAIR** |
| **Author:** Edsall, Thomas A. and Gagnon, John E. |
| **Source:** Michigan Sea Grant College Program |
| **Date:** 1991; 15 p. |
| **Subject:** summarizes Lake St. Clair geology, wetlands, food web, fisheries and human impact and future challenges |
| **Level:** adult |
| **Cost:** $1 US funds |

| **WATER IN YOUR HANDS** |
| **Source:** Soil and Water Conservation Society |
| **Date:** 1991 |
| **Subject:** focuses on awareness of water quality and how individuals can prevent water pollution |
| **Level:** teacher resource |
| **Cost:** $2.75 US funds |
Instructional Materials

For easier access to materials, this section is divided into separate categories: computer programs, directories / bibliographies / catalogs / guides, kits / games / fact sheets / posters / maps / exhibits and activities / programs / teacher resources
### Disk Computer Programs (EP-74)
- **Source:** Ohio Sea Grant Education Program
- **Date:** 1987
- **Subject:** Apple II computer programs with instructions for nine marine-related activities, some accompany Oceanic Education Activities (OEAGLS) for the Great Lakes activities
- **Emphasis:** marine education
- **Level:** grades 5 - 9
- **Cost:** $5 US funds (plus tax for Ohio residents)

### Environmental Hypermedia Programs
- **Source:** The Farm Building Plan Service
- **Date:** 1991
- **Subject:** question and answer education software package containing 17 different programs on a variety of environmental topics
- **Level:** elementary - adult
- **Cost:** contact source

### Kids Network (KIDSNET)
- **Source:** National Geographic Society Educational Services
- **Date:** 1991
- **Subject:** findings of ongoing research carried out by students are recorded and shared via modem and telecommunications with research teammates throughout the world; a professional scientist works with the students
- **Level:** grades 4 - 6
- **Cost:** Hello! and Too Much Trash, $389.55 each; "Acid Rain," "Weather in Action" and "Whats in our Water?" $449.50 each; tuition and telecommunications $116.85 per unit - all Cdn funds

### Lake Michigan Bibliography / Database
- **Source:** Illinois State Geological Surveys - Department of Energy and Natural Resources
- **Date:** 1988
- **Subject:** a bibliography of research publications from 1860 - 1988 on geological and physical processes in Lake Michigan
- **Level:** general
- **Cost:** $30 US funds, database $1,525 US funds

### Our Great Lakes Heritage
- **Source:** Ohio Sea Grant Education Program
- **Date:** 1984; #RS-039
- **Subject:** applications of microcomputers in marine and aquatic education
- **Emphasis:** how microcomputers can be used to teach about the Great Lakes
- **Level:** grades 5 - 9
- **Cost:** contact source

### Seraphim
- **Source:** University of Wisconsin Department of Chemistry
- **Date:** 1984 - present
- **Emphasis:** catalog, newsletter listing of materials produced, including software program titles: sulfuric acid; WAQUAL (water quality); lake study; pond study; mineral resources
- **Level:** grade 6 - adult/general
- **Cost:** contact source

### SciLink
- **Source:** SciLink
- **Date:** 1992
- **Subject:** Toronto based educational computer network serving science, math, environmental educators throughout North America, supports student and teacher initiated projects involving social change
- **Level:** grade 6 - adult
- **Cost:** contact source

### Water Watch
- **Source:** The National Survival Institute
- **Date:** 1989
- **Subject:** simulation game developed for Apple computers; environmental and social studies
- **Level:** grades 8 and 9
- **Cost:** first copy free; additional copies $1 Cdn funds

### WEB
- **Source:** NIRV Centre
- **Date:** 1991
- **Subject:** a computer network that provides information on current social/environmental issues from sources around the world, shares curriculum ideas from other educators, participates in interactive messaging with hundreds of schools around the globe
- **Level:** teacher resource
- **Cost:** contact source

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Directory of Great Lakes Education Material

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**Baybook**
Source: Wisconsin Department of Natural Resources-Green Bay
Date: 1989
Subject: a guide to reducing water pollution at home
Level: elementary - high school
Cost: contact source

**Bibliography of Reports**
Source: International Joint Commission
Date: 1992
Subject: reports published by the IJC under the 1972 and 1978 Great Lakes Water Quality Agreements and other boundary waters issues
Level: high school - adult - teacher resource
Cost: free

**Canadian Environmental Education Catalog**
Source: Pembina Institute
Date: 1992 300 p.
Subject: a useful tool for locating suitable learning resources for education programs
Level: teacher resource
Cost: 2 yrs. $42.80; 1 yr. $21.40 (taxes and postage included)

**Catalog of Water Quality Education Materials**
Source: Tennessee Valley Authority
Date: 1991
Subject: catalog list of teacher resource materials for environmental education
Level: middle school - university
Cost: free

**Directory of Acid Rain and Air Quality Materials**
Source: National Park Service, Midwest Regional Office
Date: 1988
Subject: contains sources for curriculum supplements, audio-visual aids, information materials
Level: grades K - undergraduate, general
Cost: free

**Earthwatching III: An Environmental Reader**
Source: University of Wisconsin-Madison Institute for Environmental Studies
Date: 1990; 160 p.
Subject: teacher's guide designed to complement classroom materials on scientific and environmental topics - Earthwatching III contains 200 half-page stories originally written for EARTHWATCH/radio dealing with the atmosphere, biosphere, land, the world of water, energy, environmental quality, health and nutrition, people and society, and global issues
Level: grades 4 - 12
Cost: $5 US funds (including postage & handling)

**Educational Images**
Source: Educational Images Ltd.
Date: 1990-91
Level: high school - college
Subject: catalogue of nearly 2,000 educational programs in a wide variety of formats
Cost: free

**Educators' Guide to Great Lakes Materials**
Source: University of Wisconsin Sea Grant College Program
Date: 1978
Subject: a bibliography of books, films, maps and pamphlets on Great Lakes
Level: undergraduate, graduate, teacher resource
Cost: $.50 each US funds (plus postage & handling)

**Environmental Education Materials for Teachers and Young People**
Source: US Environmental Protection Agency Office of Public Affairs - Region V
Date: 1991
Subject: annotated compendium of education materials on environmental issues
Level: varied
Cost: contact source
| **ENVIRONMENTAL HEALTH RISK EVALUATION FOR YOUTH** |
| **Source:** US Environmental Protection Agency  
Office of Public Affairs - Region V  
**Date:** 1991  
**Subject:** describes curricula, classroom materials, dissemination networks and other resources that provide students with knowledge/skills to evaluate environmental health risk information  
**Level:** varied  
**Cost:** contact source |

| **THE GREAT LAKES: TEACHER'S GUIDE** |
| **Source:** Federation of Ontario Naturalists  
**Date:** 1989  
**Subject:** materials arranged in six units and designed to allow teachers to make use of Great Lakes topics within existing curriculum guidelines set by Ontario Ministry of Education  
**Level:** grades 10 - 12 and OAC  
**Cost:** $15 Cdn funds (plus $2.50 postage & handling) |

| **ENVIRONMENTAL RESOURCE BOOK** |
| **Source:** Ontario Environment Network  
**Date:** 1989; reprinted annually  
**Subject:** Ontario's environmental groups and their resources  
**Level:** high school, teacher resource  
**Cost:** $6 Cdn funds, (plus $1.50 shipping & handling) |

| **ENVIRONMENTAL RESOURCE DIRECTORY** |
| **Source:** Public Focus  
**Date:** 1989; updates March and September  
**Subject:** Canada's access for environmentally relevant books, periodicals, factsheets, films, videocassettes, theatrical performances and games  
**Level:** teacher resource  
**Cost:** three-ring binder $20/copy (tax included), biannual update $5/year Cdn funds |

| **GRATIS** |
| **Source:** Teacher Care  
**Date:** 1991  
**Subject:** a list of environmental materials of interest to Canadian educators  
**Level:** elementary - high school  
**Cost:** $21.50 subscription per year, Cdn funds |

| **THE GREAT LAKES EDUCATION SPEAKERS BUREAU DIRECTORY** |
| **Source:** Great Lakes Commission  
**Date:** 1989  
**Subject:** data on nearly 400 experts from the Great Lakes region who are available to visit classrooms and educate students on water quality, fisheries, geology, waste management, recreation, history and many other subjects  
**Level:** teacher, educator resource  
**Cost:** $5 US funds; $7 Cdn funds |

| **GROUNDWATER EDUCATION IN AMERICAN SCHOOLS** |
| **Source:** American Groundwater Trust  
**Date:** 1991 - updated annually  
**Subject:** catalog of resource materials for schools/educators  
**Level:** teacher resource  
**Cost:** 9" x 12" return address envelope with $2 US postage |

| **HEALTH AND ENVIRONMENT ORGANIZATION NETWORK FOR THE UPPER GREAT LAKES AND CONNECTING CHANNELS** |
| **Source:** Citizen's Environment Alliance  
**Date:** 1991  
**Subject:** a selection of federal, provincial and state governments that have jurisdiction over health and environmental aspects  
**Level:** adult / general  
**Date:** contact source |

| **HUMAN HEALTH AND THE ENVIRONMENT** |
| **Source:** Health and Welfare Canada / National Film Board  
**Date:** 1990  
**Subject:** catalog listing a large selection of audio-visuals from six different continents  
**Level:** varies  
**Cost:** free  
**ISBN:** 0-7722-0272-9 |

| **LAKE MICHIGAN BIBLIOGRAPHY / DATABASE** |
| **Source:** Illinois State Geological Surveys - Department of Energy and Natural Resources  
**Date:** 1988  
**Subject:** a bibliography on research publications from 1860 - 1988 on geological and physical processes in Lake Michigan  
**Level:** general  
**Cost:** $30 US funds, database $1,525 US funds |
LAKE MICHIGAN CITIZEN'S RESOURCE GUIDE
Source: Atlantic States Legal Foundation
Date: 1991
Subject: a handy reference to government agencies and citizen groups involved in environmental decisions in the surrounding basin
Level: adult
Cost: $8 US funds (includes postage)

LAKE ONTARIO ORGANIZING NETWORK HEALTH AND ENVIRONMENT DIRECTORY (LOON PROJECT)
Source: Atlantic States Legal Foundation
Date: 1991; 100 p.
Subject: a listing of almost 600 groups active in health, environmental and related issues whose scope includes the entire Great Lakes basin
Level: general
Cost: $10 donation US funds

LAKE SUPERIOR DIRECTORY OF CITY GROUPS
Source: Environment North
Date: 1991
Subject: lists local citizen groups, educational resources and government agencies
Level: adult / general
Cost: contact source

MARINE EDUCATION BIBLIOGRAPHY
Source: Minnesota Sea Grant Extension Services
Date: 1991; 43 p.
Subject: education and curriculum materials from 31 Sea Grant programs across the United States
Level: teacher resource
Cost: $4 US funds (payable to the University of Minnesota)

MICHIGAN SAND DUNES, TEACHER'S GUIDE
Source: Michigan United Conservation Clubs
Subject: four pages of activities and references related to sand dunes conservation and the Great Lakes (accompanies film "Sand Dunes" from Michigan Department of Natural Resources)
Level: grades 4 - 6
Cost: free

WATER QUALITY EDUCATION BIBLIOGRAPHY
Source: Washington State University-Puyallup Research and Extension Center
Date: 1991
Subject: a collection of practical education materials geared towards usable education applications by local practitioners
Level: adult / teacher resource
Cost: hard copy: $10 US funds (shipping & handling included); copy on Word Perfect diskette free by sending a blank diskette and postage
ACID RAIN COLOURING POSTER
Source: Environment Canada - Conservation and Protection
Date: 1991
Subject: an activity poster about the effects of acid rain on the environment - classroom and student sizes are available
Level: grades 4 - 9
Cost: free

BATHYMETRIC CHARTS OF THE GREAT LAKES
Source: Cartographic Art for Science
Date: 1992
Subject: 5 four-color charts includes information on lakes, water levels, currents, morphometric parameters, watershed and land use
Level: all ages
Cost: $10 each, $50 set US funds (plus $2.50 shipping & handling)

CHESAPEAKE BAY ACTIVITY KIT
Source: Chesapeake Bay Estuary Program
Date: 1989
Subject: encourages children to interact with their environment, kit includes activity cards
Level: grades 4 - 8
Cost: free

FACT SHEETS ON POLLUTION TOPICS
Source: Air and Waste Management Association
Date: 1991; ongoing
Subject: a series of one-page fact sheets that provide background information on environmental issues
Level: grade 6 - adult
Cost: first 25 free (for larger orders contact source)

FISHES OF THE GREAT LAKES (POSTER)
Source: U.S. Government Printing Office
Date: 1976
Subject: 52 different species of fish found in the Great Lakes
Level: all ages - teacher resource
Cost: $8 US funds Order # S/N 003-020-00069-0

GLOBAL WARMING SCENARIOS
Source: Ohio Sea Grant Education Program
Date: 1991
Subject: ten scenarios for educators, policy makers, and the general public who are concerned with the environment
Level: adult
Cost: $6 US funds (includes postage & handling)

GREAT LAKES AGREEMENT INFORMATION KIT
Source: International Joint Commission, Great Lakes Regional Office
Subject: Great Lakes, water quality and water quantity issues
Emphasis: kit includes pamphlets on toxic substances, the IJC, each lake, a bibliography of IJC reports and "Focus" the IJC newsletter, remedial action plan information, Great Lakes Water Quality Agreement and "Our Fragile Ecosystem" poster
Level: all ages
Cost: free

THE GREAT LAKES A DELICATE BALANCE
Source: Chicago Academy of Sciences
Date: 1991
Subject: an interactive 3-part exhibit fosters awareness, understanding and appreciation of the Great Lakes through photos, displays and hands-on elements
Level: general
Cost: contact source

THE GREAT LAKES: AN ENVIRONMENTAL ATLAS AND RESOURCE BOOK
Source: Environment Canada - Great Lakes Environment Office and U.S. Environmental Protection Agency Office of Public Affairs - Region V
Date: 1987; (in revision)
Subject: 44 pages of history of Great Lakes, maps and fact sheets explaining Great Lakes history, physical characteristics, effects of human activities on the lakes
Level: grades 7 - 12, graduate, teacher resource
Cost: free of charge; limited supply available

GREAT LAKES NUCLEAR HOTSPOTS (POSTER)
Source: Nuclear Awareness Project
Date: 1990/91
Level: high school - adult
Subject: depicts how every aspect of the nuclear fuel chain is included in the Great Lakes
Cost: contact source

Directory of Great Lakes Education Material
**GREAT LAKES PURSUIT**  
Source: Ohio Sea Grant College Program  
Date: 1991  
Subject: board game with over 80 questions challenging your knowledge of Great Lakes history, geography, economy and culture  
Level: middle school - adult  
Cost: teachers: $15 US funds, $20 Cdn funds; public: $22.95 US funds, $27.95 Cdn funds; Ohio residents: $24 (includes tax); bulk orders available

**THE GREAT LAKES ST. LAWRENCE - OUR FRAGILE ECOSYSTEM (POSTER)**  
Source: International Joint Commission  
Date: 1992 (available in french & english)  
Subject: 23"x37" full-color poster showing historical and current information on the Great Lakes - St. Lawrence ecosystem. Includes questions for student/teacher discussion  
Level: general - all ages  
Cost: free

**GREAT LAKES / ST. LAWRENCE SYSTEM (MAP)**  
Source: Harbor House Publishing  
Date: 1990; (available in french & english)  
Subject: 23"x35" full-color overview of the region's maritime transportation capabilities  
Level: high school - adult  
Cost: $7.50 US funds

**GREAT LAKES TOXIC HOTSPOTS (POSTER)**  
Source: Pollution Probe Foundation  
Date: 1985  
Subject: five-colour 21" x 34" poster showing 343 toxic areas around the Great Lakes  
Emphasis: environmental quality  
Level: all ages  
Cost: $8 Cdn funds (includes postage & handling)

**GULLIVER THE TALKING GULL (EXHIBIT)**  
Source: Minnesota Sea Grant College Program  
Date: 1991  
Subject: three-foot mechanical ring-bulled gull with Great Lakes script, available for rent, owned and managed by the Great Lakes Sea Grant Network  
Level: all ages  
Cost: contact source

**THE LAKE SUPERIOR GAME: USE VERSUS ABUSE**  
Producer: Barbara Liukkonen  
Source: Minnesota Sea Grant Extension Services  
Date: 1991  
Subject: teaches the value of a clean environment  
Two other versions available: The Lake Game for Adults, The Lake Game for Youth  
Level: grades 5 - adult  
Cost: single copy free, multiple copies $.50 each US funds

**LAKE SURVEY CHARTS (MAPS)**  
Source: Apostle Islands National Lakeshore  
Subject: 1) The Great Lakes (#14500)  
2) Lake Superior (#14960)  
3) Western Lake Superior (#14966)  
4) The Apostle Islands (#14973)  
Level: general  
Cost: $13 US funds each plus $1.50 postage & handling (Wisconsin residents add 5% sales tax)

**M.V. MACASSA BAY**  
Source: E.K. Tour Boat Service Ltd.  
Subject: school/staff functions on sightseeing cruise aboard a 93-foot ship for groups of up to 200 persons  
Emphasis: water resources of the Great Lakes region  
Level: all ages  
Cost: call for schedule and rates; operating season May - October

**PLANKTON PORTRAITS: LIFE ON A WATER DROP**  
Source: Chicago Academy of Sciences  
Date: 1991  
Subject: 50 color photos of multicellular freshwater organisms  
Level: general  
Cost: contact source

**SPLASH**  
Source: American Waterworks Association  
Date: 1990  
Subject: activity book on drinking water and water conservation  
Level: grades K - 3  
Cost: single copies free, 10 or more copies, $.26 US funds
**Stop the Invaders (Poster)**
Source: Great Lakes Indian Fish and Wildlife Commission
Date: 1991
Subject: full-color poster outlining 6 exotic species: milfoil, purple loosestrife, ruffe, sea lamprey, spiny water flea and zebra mussel
Level: general
Cost: contact source

**Voyageur Prints**
Artist: Hopkins, Frances Ann
Source: Apostle Islands National Lakeshore
Subject: 1) Voyageurs on Lake Superior, 1869 (28" x 21") 2) Canoe Shooting Rapids (35" x 24") 3) Canoe Proceeding Along High Rocky Cliffs (28" x 18")
Level: all ages
Cost: $5 US funds each plus $1.50 postage & handling (Wisconsin residents add 5% sales tax)

**Water Conservation**
Source: The National Survival Institute
Date: 1989
Subject: teacher's kit on water conservation
Level: grades 4 - 6
Cost: first copy free; additional copies $1 Cdn funds

**Water Series Fact Sheet**
Source: Environment Canada - Conservation and Protection, Inland Waters Directorate
Date: 1990
Subject: a series of five fact sheets on groundwater, water use, water quality, water conservation and clean water
Level: grades 7 - adult
Cost: free

**WatertownsWater/Sewage System (Poster)**
Source: Michigan Sea Grant Publications Office
Date: 1990
Subject: illustrates and explains how a typical US city obtains its drinking water, distributes it to homes and treats sewage
Level: upper elementary and middle schools
Cost: contact source (order # MICHU-SG-83-401)

**Water Wheel**
Subject: water conservation informational device; water use and conservation
Level: general
Cost: $1 US funds each (plus postage & handling for quantities up to 250)

**Water Wisdom**
Source: The National Survival Institute
Date: 1989
Subject: teacher's kit on water conservation and water management; environmental and social studies
Level: grades 8 and 9
Cost: contact source for information

**Weavers of Light**
Source: Chicago Academy of Sciences
Date: 1983
Subject: 60 photos of freshwater single-cell microorganisms
Level: general
Cost: contact source

**Welcome to the Wetlands**
Source: U.S. Environmental Protection Agency Office of Public Affairs - Region V
Date: 1988
Subject: fold-out poster on the importance of wetlands
Level: grades 3 - 5, teacher resource
Cost: free
### Acid Rain Curriculum, Grades 6-12

**Source:** Acid Rain Foundation  
**Date:** 1988  
**Subject:** six packets of classroom activities, overhead transparencies, pre/post tests, bibliography for students and teachers on  
(1) Life Science, (2) Earth Science,  
(3) Physical Science, (4) Biology,  
(5) Chemistry, (6) Social Studies  
**Level:** grades 6 - 12  
**Cost:** $19.95 for each packet plus $2 postage & handling or $59.95 for the set of six (plus $4 postage & handling - US funds)

### Activities from Middle Sea (EP-71)

**Source:** Ohio Sea Grant Education Program  
**Date:** 1986  
**Subject:** compilation of short classroom activities from past issues of Middle Sea newsletters  
**Level:** grades 5 - 9  
**Cost:** $2.50 US funds (plus tax for Ohio residents)

### Adventures in Water Education

**Source:** The Ecology Center of Ann Arbor  
**Date:** 1991  
**Subject:** 28 activities in science, social studies, language arts, groundwater, the water cycle, pollution and solid waste  
**Level:** grades K - 3  
**Cost:** $11 US funds

### Always a River Curriculum

**Source:** US Environmental Protection Agency - Office of Research and Development  
**Date:** 1991  
**Subject:** investigating the Ohio River and its importance to the states through which it flows  
**Level:** K - 12  
**Cost:** free by writing to the publications office re: order no. AWBERC-91-09

### D.J. Angus - Research Vessel

**Source:** Grand Valley State University  
**Emphasis:** educational program on a 45-foot research vessel designed for educational activities, 20 participants maximum  
**Subject:** aquatic science program, Great Lakes ecology  
**Level:** all ages; K - 12, citizen groups, teacher workshops  
**Costs:** $312.50 - 2.5 hr. with tape (US funds), operating season May - November

### Appreciating Your Great Lakes — A Guide for Developing Educational Projects

**Source:** Illinois-Indiana Sea Grant Program  
**Date:** 1989; 95 p.  
**Subject:** a source book with activity suggestions for teaching young people about the Great Lakes through natural resources, history, ecology and economics. Includes an extensive list of references and resources  
**Level:** grades 6 - 12; teacher resource  
**Cost:** $5 US funds, payable to The University of Illinois; 10% discount on orders of 10 - 49; 20% discount on orders of 50 or more

### Aquatic Activities

**Source:** New York Sea Grant Extension Program, Cornell University  
**Date:** 1980  
**Subject:** 12 hands-on water related activities  
**Level:** grades 6 - 8  
**Cost:** $3 US funds

### BARK (Backyard Acid Rain Kit)

**Source:** Public Focus  
**Date:** 1989 (available in english & french)  
**Subject:** an exciting and educational acid precipitation monitoring program that enables young people to learn through activity and discovery  
**Level:** grades 4 - 10  
**Cost:** contact source

### Curriculum for Grades 4-8

**Source:** Acid Rain Foundation  
**Date:** 1986  
**Subject:** acid rain; 12 classroom-ready activities  
**Emphasis:** mixed: science, math, social studies, art, language  
**Level:** grades 4 - 8  
**Cost:** $19.95 US funds (plus $2 postage & handling, and taxes where applicable)

### Debate Coaches

**Source:** Acid Rain Foundation  
**Date:** 1986  
**Subject:** water quality, allocation, policy  
**Emphasis:** language, environmental studies  
**Level:** grades 8 - 12, teacher resource  
**Cost:** $19.95 US funds (plus $2 postage & handling)
**Decision for the Great Lakes**
*Source: Great Lakes Tomorrow*
*Date: 1982 (out of print)*
*Subject: Great Lakes history and facts, ecosystem management, law, politics, pollution, public participation, water quality*
*Level: grades 7 - 12*
*Cost: contact source*

**Discover the 5**
*Source: Laurel Creek Centre, Waterloo Region R.C. School Board*
*Date: 1983*
*Subject: 11 sections include formation of the Great Lakes, early history, shipping, agriculture, fishing, wetland management*
*Emphasis: art, chemistry, history, geography, language arts, math*
*Level: grades 5 - 8, teacher resource*
*Cost: available on loan*

**The Disposal Game**
*Source: Ontario Waste Management Corporation*
*Date: 1984*
*Subject: 20-30 minute board game for 2-4 players on environmental studies*
*Level: grade 7 - adult/general*
*Cost: free*

**The Dotted Dragon**
*Author: Etherington, Kim*
*Source: Public Focus*
*Date: 1979; reprinted 1981, 1985*
*Subject: 24-page story/colouring book about the Great Lakes; introduction to pollution*
*Level: pre-school - grade 3*
*Cost: $1.95 each Cdn funds (plus postage & handling, bulk orders available)*

**Earth Saver**
*Source: Environmental Hazards Management Institute*
*Date: 1992*
*Subject: information on recycling and hazardous waste identifies toxic chemicals in common household products*
*Level: general*
*Cost: $3.75 each (bulk orders available)*

**The Effect of the Great Lakes on Climate**
*Source: Ohio Sea Grant College Program*
*Date: 1990*
*Subject: effect of temperature on the movement of air, science and geography activities included, also a teachers guide and student workbook*
*Level: grades 5 - 12*
*Cost: contact source*

**Environmental Education Activities Manual**
*Source: Thomson-Shore, Inc.*
*Date: 1981 (fourth edition)*
*Subject: environmental education, water quality, general action-oriented activities*
*Level: teacher resource*
*Cost: contact source*

**Environmental Resource Guide - Air Quality**
*Source: Air and Waste Management Association*
*Date: 1991 (available in french & english)*
*Subject: "user friendly" curriculum guide consisting of 16 lessons that address air quality topics*
*Level: grades 6 - 8*
*Cost: $30 each; 15 or more $15 each; 50 or more $12 each*

**Field Manual for Water Quality Monitoring**
*Source: Stapp, William B. and Mitchell, Mark K.*
*Date: 1990; 234 p.*
*Subject: interactive water quality projects, includes more than 85 illustrations*
*Emphasis: biology, ecology, earth science and chemistry*
*Level: grade 7 - adult/general, teacher resource*
*Cost: $9.95 US funds — discounts available for orders over ten*

**Fish Ways Resource Educational Manuals**
*Source: Ontario Ministry of Natural Resources Public Information Centre*
*Date: 1991*
*Subject: activity based Ontario curriculum - linked lessons on Ontario's aquatic resources in the Great Lakes*
*Level: K - 6 or grades 7 - 12 (2 manuals)*
*Cost: contact source*

**Forever Green Game**
*Source: Playtoy Industries*
*Date: 1991*
*Subject: fun and educational quiz game for children, including over 600 environmentally friendly questions and answers, some relating to the Great Lakes area*
*Level: grades 7 - adult*
*Cost: $14.95 Cdn funds*
THE GREAT LAKES
Source: Harbor House Publishers
Date: 1987
Subject: 24-page coloring book depicts scenes from throughout the Great Lakes, with an emphasis on the Great Lakes boats and ocean ships that ply the inland waters
Level: preschool - grade 4
Cost: $1.95 US funds

GREAT LAKES! GREAT MINDS
Source: US Environmental Protection Agency Office of Public Affairs - Region V
Date: 1990
Subject: lesson plans to provide an integrated approach to Great Lakes issues for history, social studies and science
Level: elementary - high school
Cost: contact source

THE GREAT LAKES IN MY WORLD
Source: Lake Michigan Federation - Chicago
Date: 1990
Subject: activities workbook includes materials for educating students on the Great Lakes ecosystem
Level: grades K - 8
Cost: $5 US funds (includes postage & handling)

GROUNDWATER EDUCATION IN MICHIGAN - GROUNDWATER TRANSPARENCIES
Source: GEM Regional Center: Institute for Water Sciences
Date: 1990
Subject: package of 11 groundwater concept statements and 18 color and black-and-white transparencies
Level: various grade levels
Cost: $25 US funds (plus postage)

GROUNDWATER GLIMPSES
Source: The Ecology Center of Ann Arbor
Date: 1991
Subject: an interactive teaching tool with hands-on interactive displays
Level: grades K - 12
Cost: $400 each, two for $625 - US funds

GROUNDWATER STUDY GUIDE
Source: Wisconsin Department of Administration
Date: 1990
Subject: study guide, poster and activity sheets
Level: grades 6 - 9
Cost: $10.50 US funds (includes tax)

HAZARDOUS WASTE AND YOU: TEACHERS GUIDE
Source: Ontario Waste Management Corporation
Date: 1990
Subject: promotes awareness and understanding of hazardous waste and related issues - a series of booklets is also available
Level: grade 5 and up
Cost: contact source

HOUSEHOLD HAZARDOUS WASTE WHEEL
Source: Environmental Hazards Management Institute
Date: 1990
Subject: informational device on hazardous household products and alternatives
Level: general
Cost: $3.75 each US funds (bulk orders available)

INDIANA'S WATER RICHES
Source: Purdue University Media Distribution Center
Date: 1991
Subject: a curriculum program with videotape, student activity sheets, instructor's guide and board game "To the Last Drop"
Level: upper elementary
Cost: $10 US funds per game; $70 instructors kit (includes game, video and more)

INVESTIGATING THE GREAT LAKES ENVIRONMENT: FISHING IN TRANSITION
Source: Michigan Sea Grant Publications Office
Date: 1983
Subject: ecology, history, Great Lakes, fisheries; several activities, teacher background, wall map, gameboards, worksheets and references
Level: grades 6 - 8
Cost: $37.50 US funds (includes shipping & handling) order #MICHU-SG-83-400

JASON CURRICULUM
Source: National Science Teachers Association
Date: 1990
Subject: familiarizes students with underwater adventure in Lake Ontario exploring the shipwrecks of the Hamilton and Scourge
Level: grades 7 - adult
Cost: $12.95 US funds (plus shipping & handling, bulk orders available)
KIDSWHEEL ON HAZARDOUS WASTE PRODUCTS
Source: Environmental Hazards Management Institute
Date: 1992
Subject: offers children practical information on hazardous product identification, safety and less toxic alternatives
Level: grades 4 - 8
Cost: $3.75 each (bulk orders available)

LIVING IN WATER
Source: The National Aquarium in Baltimore
Date: 1987; 1989
Subject: 319 p., 36 activities, classroom-based aquatic science curriculum using hands-on science experiments and activities to teach children the physical and biological characteristics of marine and freshwater habitats
Level: grades 4 - 6
Cost: curriculum is unbound, three-hole punched, $10 US funds, $12 Cdn funds (includes postage, printing & handling)

LIVING LIGHTLY ON THE PLANET
Source: Schlitz Audubon Center
Date: 1989
Subject: two-volume activity guide providing information on environmental studies. Resource materials such as maps, student role cards, and case studies are included to enhance the presentation of concepts
Level: Volume I (grades 7 - 9); Volume II (grades 10 - 12)
Cost: each volume $17 US funds (plus tax, postage & handling)

NIMBI (NOW I MUST BECOME INVOLVED)
Source: Environmental Hazards Team
Emphasis: educational activities on a 40-foot research tug designed for groups of up to 15 participants
Subject: water quality testing, effects of human activities on the lakes
Level: elementary - high school
Cost: no charge - operating season May - Oct.

NUTRIENTS IN THE GREAT LAKES
Source: Ohio Sea Grant College Program
Date: 1990
Subject: using goldfish and jars of river water, students simulate the effects of nutrients on the growth of algae, and how they enter a lake; teacher guide included
Level: grades 7 - 12
Cost: contact source

OEAGLS (OCEANIC EDUCATION ACTIVITIES FOR GREAT LAKES SCHOOLS)
Source: Ohio Sea Grant Education Program
Subject: Lake Erie, interdisciplinary approach to the world's oceans, approx. 38 separate lessons which include activities, worksheets, and teacher's guide - no elaborate equipment needed
Level: grades 5 - 9
Cost: $3 US funds each (plus tax for Ohio residents) except where otherwise noted (make checks payable to The Ohio State University); multiple title prices are available

OEAGLETS (OCEANIC EDUCATION ACTIVITIES FOR GREAT LAKES SCHOOLS EARLY ELEMENTARY GRADES)
Source: Ohio Sea Grant Education Program
Subject: three separate lessons: Lake Erie, Take a Bow! (overview), Build a Fish to Scale (fish anatomy), and A Day in the Life of a Fish (ecosystem)
Note: each lesson includes activities, and a teacher guide - no elaborate equipment needed
Level: grades K - 4
Cost: $5 each US funds (plus tax for Ohio residents - make checks payable to The Ohio State University)

OUR GREAT LAKES CONNECTION: A CURRICULUM GUIDE FOR GRADES KINDERGARTEN THROUGH EIGHT
Source: University of Wisconsin Extension, Environmental Resources Center
Date: 1985; (out of print, available on loan only)
Subject: 24 lessons and activities dealing with everything from sand and rocks to toxics
Emphasis: science, social studies and drama of the Great Lakes
Level: grades K - 8
Cost: loan only

PADDLE-TO-THE-SEA: SUPPLEMENTAL CURRICULUM ACTIVITIES FOR USE WITH HOLLING CLANCY HOLLING'S BOOK
Source: Ohio Sea Grant Education Program
Date: 1988; 1991
Subject: biology, ecology, geography, physical sciences, social studies, languages and math
Emphasis: environmental studies (includes 24" x 36" map of the Great Lakes)
Level: grades 3 - 6
Cost: $10 US funds (includes postage & handling - make checks payable to The Ohio State University)
**DR. POSSIBILITIES, LAKE HEALING EXTRAVAGANZA**

*Source:* Portable Theatre  
*Subject:* live participatory musical adaptable to water quality topics  
*Notes:* participatory, educational family musical; travels throughout the Lake Ontario region indoors or outdoors, accommodates up to 500 people/show; available for professional development days across Ontario; offers workshops in areas of problem-solving, creativity, team-building, communication, clowning and theatre  
*Level:* grades 4 and up  
*Cost:* ranges from $400 and up (Cdn funds)

**A PRIMER ON WATER**

*Source:* Environment Canada Conservation and Protection, Inland Waters Directorate  
*Date:* 1991  
*Subject:* answers a wide variety of questions on different aspects of water  
*Level:* grades K - 5  
*Cost:* free

**RAIN, RAIN GO AWAY**

*Author:* Leppard, Sally  
*Source:* Public Focus  
*Date:* 1979; reprinted 1981, 1985  
*Subject:* 24-page colouring/activity book on acid rain  
*Level:* preschool - grade 3  
*Cost:* $1.95 each Cdn funds (plus postage & handling, bulk orders are available)

**RANGER RICK'S NATURESCOPE: WADING INTO WETLANDS**

*Source:* National Wildlife Federation  
*Date:* 1989  
*Subject:* importance of wetlands; informational pages, student activities, teacher's guide  
*Emphasis:* science, environmental studies  
*Level:* teacher resource  
*Cost:* $6 each US funds (plus $3.50 postage and handling-postage & handling charges same for any amount ordered)

**RECYCLING WHEEL AND DAILY RECYCLER**

*Source:* Environmental Hazards Management Institute  
*Date:* 1991  
*Subject:* two quick reference wheels to identify recyclable goods  
*Level:* general  
*Cost:* contact source

**SAVE OUR STREAMS**

*Source:* Indiana Department of Education  
*Subject:* stream monitoring program (produced with Izaak Walton League); activity-oriented, not Great Lakes specific  
*Emphasis:* science, social studies, health  
*Level:* grades K - 12  
*Cost:* free

**THE SCHOOLSHIP PROGRAM**

*Source:* Inland Seas Education Association  
*Date:* 1989; mid-May - mid-October  
*Emphasis:* two schooners - "Malabar" and "Manitou" and a 35-foot ketch named "Cygnet" serve as sailing classrooms on Grand Traverse Bay, Michigan. Students collect and examine plankton, fish and bottom sediments and experience the heritage of the Great Lakes; college and teacher training programs also offered  
*Level:* grades 6 - 10  
*Cost:* school classes: $20/person US funds - group size 35 maximum; Cygnet: $35 per 1/2 day (call for cost on college/teacher training programs)

**SPORTSFISHING AND AQUATIC RESOURCES EDUCATION PROGRAM - LEADER MANUAL**

*Source:* New York State Department of Natural Resources - Cornell University  
*Date:* 1989  
*Subject:* the manual focuses on fishing — aquatic ecology and the Great Lakes are noted in each chapter  
*Level:* grades 5 - 7  
*Cost:* contact source

**THE ST. LAWRENCE RIVER PROJECT**

*Source:* Leeds-Grenville County Board of Education - Teacher Resource Centre  
*Date:* 1987  
*Subject:* large kit, resource material and artifacts and optional teacher resource package  
*Level:* grades K - 7  
*Cost:* teacher resource package: $50 Cdn funds or kit for loan

**THE STORY OF DRINKING WATER**

*Source:* American Waterworks Association  
*Date:* 1990  
*Subject:* practical classroom resource materials, including a teachers guide and student activities  
*Level:* grades 4 - 9  
*Cost:* single copies free, 10 or more copies $.26 US funds
Treasures In Your Garbage
Author: Ellis, Toni
Source: Is Five Press
Date: 1986
Subject: 24-page activity book on recycling
Level: pre-school - grade 3
Cost: $2.95 Cdn funds; bulk rates: 25-99 $2.51; 100-199 $2.34 (plus postage & handling)
ISBN: 0-920934-26-9

Water
Source: Michigan United Conservation Clubs
Subject: 24 pages of classroom water activities
Level: grades 4 - 8, teacher resource
Cost: $1 US funds

Water Fun
Source: Innovative Communications Inc.
Date: 1990
Subject: water conservation activities
Level: grades K - 3
Cost: students $.32 cents each; teachers guide $1. each, US funds (plus shipping & handling, bulk orders available)

Water Play
Source: Innovative Communications Inc.
Date: 1990
Subject: environmental and water games and activities
Level: grades K - 3
Cost: students $.50 each; teachers guide $2 each, US funds (plus shipping & handling, bulk orders available)

Water Sense Wheel
Source: Environmental Hazards Management Institute
Date: 1989
Subject: potential toxic and nontoxic contaminants information device; safe drinking water
Level: general
Cost: $3.75 each (bulk orders available)

Water: The Liquid of Life
Source: Illinois Environmental Protection Agency
Date: 1988
Subject: hands-on activity modules for classroom studies
Level: grade 5, teacher resource
Cost: contact source

Water Wise
Source: New York State Department of Natural Resources - Cornell University
Subject: teacher's guide introducing water quality, the importance of the water cycle and water treatment
Level: grades 5 - 6
Cost: $4 US funds (includes shipping & handling)

Water World
Source: Cornell University Media Services
Date: 1988
Subject: six different activities on aquatic life
Level: grades 4 - 6
Cost: contact source

Wetlands Affect You and Me: Leader/Teacher Guide
Source: Michigan Sea Grant College Program Cooperative Extension Service
Date: 1979
Subject: activities prepared to teach students about wetlands; one of 25 publications about ecological issues from Extension Service; #1038 for learner; #1039 for leader/teacher
Level: grades 6 - 8
Cost: publication 4-H 1038 and 4-H 1039: $.70 (orders of $50 or less must be prepaid in US funds)

Wetlands Are Wonderlands
Source: Illinois-Indiana Sea Grant Program
Date: 1992
Subject: science, key wetland concepts; value to humanity, helping youth understand current and future uses of wetlands
Level: youth - adult
Cost: leader/teacher guide: $3.50 US funds, member/student guide: $3 US funds (bulk discounts available)

Willie Takes a Field Trip
Source: US Geological Survey, Books
Date: 1990
Subject: a coloring book that introduces tomorrow's scientists to our vital resource, water
Level: grades K - 6
Cost: $6 US funds, report I.D # 90-125 check or money order payable to: Department of the Interior-US Geological Survey
The World Game
Source: World Game Institute
Notes: participatory workshop on global resources-varying programs are available for different ages and groups
Subject: environment, state of the planet
Emphasis: world geography, history, current events and global issues
Level: all ages
Cost: varies with type of program; average cost is approximately $3,500 US funds (includes two traveling workshop staff, shipping of the giant map, props, and other materials)
**ADVISOR**
Source: Great Lakes Commission
Date: monthly
Subject: conservation and management of the Great Lakes basin
Level: adult/general, teacher resource
Cost: free

**CANADIAN WATER WATCH**
Source: Rawson Academy of Aquatic Science
Date: monthly
Subject: summaries of key initiatives related to aquatic science, policies, regulations and other issues related to water
Level: adult/general
Cost: annual subscription: $150 Cdn funds ($185 Cdn funds outside Canada)

**CEO NEWSLETTER (COALITION FOR EDUCATION IN THE OUTDOORS)**
Source: Coalition for Education in the Outdoors
Date: quarterly
Subject: dedicated to communication for the enhancement of education in the outdoors
Level: adult
Cost: contact source

**THE CHADBURN**
Source: The Great Lakes Historical Society
Date: quarterly four-page newsletter
Subject: Great Lakes, history
Level: undergraduate and teacher resource
Cost: included with $20 membership (US funds)

**THE CLEAN WATER ACTION COUNCIL OF NORTHEASTERN WISCONSIN**
Source: The Clean Water Action Council of Northeastern Wisconsin
Date: monthly
Subject: local news items, calendar of events
Level: adult
Cost: $20 with membership - US funds

**COASTAL EDUCATORS NEWS**
Source: New York Sea Grant Extension Program, East Aurora
Date: bimonthly
Subject: toxic substances, ecosystems, fishing, Great Lakes issues
Level: teacher resource
Cost: free

**COASTLINES**
Source: New York Sea Grant Institute
Date: quarterly
Subject: aquatic topics, coastal management, fisheries and recreation, Great Lakes
Level: undergraduate, graduate, adult/general
Cost: free

**CONSERVATION MENTOR**
Authors: Joint newsletter of the Minnesota Association of Soil and Water Conservation Districts, Minnesota Board of Water and Soil Resources, and the Minnesota Association of Watershed Districts
Source: Minnesota Board of Water and Soil Resources
Date: bimonthly
Subject: soil and water conservation
Level: adult/general
Cost: free

**COUNCIL COMMENTARY**
Source: Council of Great Lakes Governors
Date: monthly
Subject: activities of the Council of Great Lakes Governors and public policy issues in six states: IL, IN, MI, MN, OH, WI
Level: adult/general
Cost: free

**CURRENTS**
Source: Lake Superior Center
Date: quarterly
Subject: programs, facts, news and previews on the Lake Superior Center for Freshwater Understanding
Level: high school / adult
Cost: contact source

**DREISENA POLYMORPHA INFORMATION REVIEW**
Source: Zebra Mussel Information Clearinghouse
Date: bimonthly
Subject: research-based journal regarding biology, impacts and control of the zebra mussel
Level: adult
Cost: contact source

**ECOWAVES**
Source: Citizens Environment Alliance
Date: bimonthly
Subject: a news bulletin that highlights regional, local and national environmental issues of concern
Level: elementary - high school, adult
Cost: $20 Cdn funds for membership
**EE NEWS**  
**Source:** Wisconsin Department of Natural Resources, Bureau of Information and Education  
**Date:** quarterly  
**Subject:** 12 pages of information for Wisconsin educators on environmental topics, issues, news items and listing for resource materials  
**Level:** teacher resource  
**Cost:** free

**ENVIRONMENT VIEWS**  
**Source:** Alberta Environment Communications Branch  
**Date:** quarterly  
**Subject:** classroom curriculum, specific topic from various viewpoints to increase awareness of environmental issues; recycling, hazardous wastes, agriculture, energy (applicable to Great Lakes education)  
**Level:** grade 7 - adult, teacher resource  
**Cost:** free

**ENVIRONMENTAL COMMUNICATOR**  
**Source:** North American Association for Environmental Education  
**Date:** bimonthly  
**Subject:** not Great Lakes specific  
**Level:** teacher resource  
**Cost:** included with membership fees $35 US funds or $20 for non-members

**FEDERATION HIGHLIGHTS**  
**Source:** Water Pollution Control Federation  
**Date:** monthly  
**Subject:** water pollution highlights, current issues on water and wastewater treatment, management and disposal  
**Level:** adult/general  
**Cost:** subscription rates

**FOCUS ON INTERNATIONAL JOINT COMMISSION ACTIVITIES**  
**Source:** International Joint Commission, Great Lakes Regional Office  
**Date:** 3 issues per year: March/April, July/August, November/December  
**Subject:** water, pollution, hazardous substances, IJC, environmental quality, Great Lakes focus, U.S.-Canadian institutional arrangements  
**Level:** grade 9 - adult/general, teacher resource  
**Cost:** free

**GREAT LAKES CONSORTIUM REPORT**  
**Source:** Great Lakes Research Consortium  
**Date:** quarterly  
**Subject:** useful information for the New York Great Lakes research community  
**Level:** adult  
**Cost:** contact source

**GREAT LAKES PROGRAM PERSPECTIVE**  
**Source:** Great Lakes Program Office  
**Date:** bimonthly  
**Subject:** focus for serving the public on Great Lakes interests at SUNY - Buffalo; information clearinghouse  
**Level:** undergraduate, graduate, adult/general  
**Cost:** free

**THE GREAT LAKES REPORTER**  
**Source:** The Center for the Great Lakes  
**Date:** bimonthly  
**Subject:** management, conservation, natural resources, water quality, U.S.-Canadian Great Lakes issues  
**Level:** undergraduate, graduate, adult/general, teacher resource  
**Cost:** available with membership

**THE GREAT LAKES UNITED**  
**Source:** Great Lakes United  
**Date:** quarterly  
**Subject:** conservation, economic strategies, information exchange, U.S.-Canadian Great Lakes issues, citizen involvement, a bulletin on pollution prevention is also included  
**Level:** adult/general  
**Cost:** available with membership; $20 individual, $100 organization (US funds)

**GREAT LAKES WATER LEVELS NEWSLETTER**  
**Source:** Environment Canada Great Lakes Water Levels Communication  
**Date:** 1990-1991  
**Subject:** issues related to Great Lakes water levels  
**Level:** grades 7 - adult/general  
**Cost:** free

**THE GREEN NEWSLETTER (GLOBAL RIVERS ENVIRONMENTAL EDUCATION NETWORK)**  
**Source:** The GREEN Project  
**Date:** twice yearly & two mini updates  
**Subject:** articles on water monitoring research, updates on participating countries; each issue highlights a specific topic  
**Level:** general  
**Cost:** contact source

Directory of Great Lakes Education Material
GREEN TEACHER
Source: Green Teacher
Date: five issues per year
Subject: non-profit UK based teacher's magazine providing international perspectives on environmental education
Level: teacher resource
Cost: $27 Cdn funds per year (includes taxes, shipping & handling)

GREENPEACE - GREAT LAKES
Source: Greenpeace, Great Lakes Office
Date: six times each year
Subject: environmental issues, ocean ecology
Level: grade 9 - adult/general
Cost: available with membership

GROUNDWATER NOTES
Source: Waterloo Centre for Groundwater Research
Date: twice annually
Subject: interaction between groundwater research scientists, professionals, governmental agencies, and special interest groups
Level: teacher resource
Cost: free

INLAND SEAS
Source: Great Lakes Historical Society
Date: quarterly
Subject: Great Lakes history
Level: undergraduate, teacher resource
Cost: $20 US funds membership (includes journal & newsletter)

LACUSTRINE LESSONS
Source: Minnesota Sea Grant Extension Services
Date: published through August 1988: back issues are available
Subject: activities on environmental issues
Level: teacher resource
Cost: free

LAKE LETTER
Source: DePaul University
Date: occasional
Subject: information on Great Lakes research
Level: teacher resource
Cost: free

LAKE LOG CHIPS
Source: Harbor House Publishers
Date: biweekly
Subject: information on the boats, the cargoes and the people that make up the maritime tradition of the Great Lakes
Level: adult
Cost: $1 each or $25 per year US funds (plus $5 postage & handling)

LAKE MICHIGAN MONITOR
Source: Lake Michigan Federation - Chicago
Date: quarterly
Subject: lakewide efforts to protect Lake Michigan; lake cleanup, shoreline erosion, beaches, and dunes
Level: high school, adult
Cost: available with membership

LAKE TIDES
Source: Wisconsin Department of Natural Resources Bureau of Information and Education
Date: quarterly
Subject: information on lake sciences, management and how-to information
Level: teacher resource
Cost: free

LE FLEUVE
Source: Environment Canada - Conservation and Protection
Date: 4 times per year (available in french & english)
Subject: St. Lawrence Action Plan Newsletter
Level: adult
Cost: free
<table>
<thead>
<tr>
<th><strong>LITTORAL DRIFT</strong></th>
<th><strong>PISCES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: University of Wisconsin Sea Grant College Program</td>
<td>Source: Department of Fisheries and Oceans Communications Directorate - Ottawa</td>
</tr>
<tr>
<td>Date: monthly</td>
<td>Date: quarterly</td>
</tr>
<tr>
<td>Subject: two-page newsletter on environmental issues, a list of journal reprints and events</td>
<td>Subject: regional news, research and policies in a bilingual format</td>
</tr>
<tr>
<td>Level: teacher resource</td>
<td>Level: high school/adult</td>
</tr>
<tr>
<td>Cost: free</td>
<td>Cost: contact source</td>
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</tbody>
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<thead>
<tr>
<th><strong>MICHIGAN WASTE REPORT</strong></th>
<th><strong>PLESE NOTE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: Waste Systems Institute of Michigan Inc.</td>
<td>Source: Ohio Sea Grant Education Program</td>
</tr>
<tr>
<td>Date: biweekly</td>
<td>Date: 1991</td>
</tr>
<tr>
<td>Subject: waste management, toxics and pollution control issues in Michigan</td>
<td>Subject: published by the Program for Leadership in Earth Systems Education and focuses on the interacting subsystems of water, land, ice, air and life</td>
</tr>
<tr>
<td>Level: adult</td>
<td>Level: teacher resource</td>
</tr>
<tr>
<td>Cost: free</td>
<td>Cost: contact source</td>
</tr>
</tbody>
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<tr>
<th><strong>THE NARRATOR</strong></th>
<th><strong>THE PROBE POST</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: Northwestern Michigan Council of Governments</td>
<td>Source: Pollution Probe Foundation</td>
</tr>
<tr>
<td>Date: quarterly</td>
<td>Date: quarterly</td>
</tr>
<tr>
<td>Subject: issues and opportunities on water quality and other environmental issues in the Grand Traverse region</td>
<td>Subject: energy, environmental issues, not Great Lakes specific</td>
</tr>
<tr>
<td>Level: adult</td>
<td>Level: grade 7 - adult/general, teacher resource</td>
</tr>
<tr>
<td>Cost: free</td>
<td>Cost: $15 Cdn funds</td>
</tr>
</tbody>
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<tr>
<th><strong>NETWORK NEWS</strong></th>
<th><strong>THE SEICHE</strong></th>
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</thead>
<tbody>
<tr>
<td>Source: Ontario Environment Network</td>
<td>Source: Minnesota Sea Grant Extension Services</td>
</tr>
<tr>
<td>Date: quarterly</td>
<td>Date: five issues per year</td>
</tr>
<tr>
<td>Subject: aims to facilitate communication and cooperation among environmental groups in Ontario, in order to contribute to the enhancement and protection of the environment</td>
<td>Subject: marine resources, coastal utilization, marine environmental research, water safety, Great Lakes</td>
</tr>
<tr>
<td>Level: adult/general, teacher resource</td>
<td>Level: undergraduate, adult/general, teacher resource</td>
</tr>
<tr>
<td>Cost: yearly subscription</td>
<td>Cost: free</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>THE NEWSLETTER</strong></th>
<th><strong>SWIM — SAFE WATERS IN MICHIGAN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: Association for Great Lakes Maritime History</td>
<td>Source: Lake Michigan Federation - Chicago</td>
</tr>
<tr>
<td>Date: bimonthly</td>
<td>Date: quarterly</td>
</tr>
<tr>
<td>Subject: an international umbrella organization of institutes, museums and societies interested in the history of the Great Lakes</td>
<td>Subject: restoring water quality; ecology, human health and economics</td>
</tr>
<tr>
<td>Level: adult</td>
<td>Level: high school, adult</td>
</tr>
<tr>
<td>Cost: membership - $35 individual, $50 organizational, US funds</td>
<td>Cost: contribution</td>
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<tr>
<th><strong>NWRI DIGEST</strong></th>
<th><strong>TWINE LINE</strong></th>
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</thead>
<tbody>
<tr>
<td>Source: National Water Research Institute</td>
<td>Source: Ohio Sea Grant College Program</td>
</tr>
<tr>
<td>Date: quarterly</td>
<td>Date: bimonthly</td>
</tr>
<tr>
<td>Subject: current news, research projects related to air and water</td>
<td>Subject: issues, events and research relating to Lake Erie and Great Lakes organizations</td>
</tr>
<tr>
<td>Level: adult/general</td>
<td>Level: adult/general</td>
</tr>
<tr>
<td>Cost: free</td>
<td>Cost: $4.50 per year US funds</td>
</tr>
</tbody>
</table>
**Upwellings**  
Source: Michigan Sea Grant College Program, Publications Office  
Date: quarterly  
Subject: exotic species, fisheries, bottomland preserves, Great Lakes research, activities and issues, conferences, publications  
Level: high school - adult, teacher resource  
Cost: free

**U.S. Water News**  
Source: U.S. Water News, Inc. / Freshwater Foundation  
Date: monthly  
Subject: water quality, water quantity - not Great Lakes specific  
Level: adult/general, teacher resource  
Cost: $39 US funds or $49 Cdn funds for one year subscription

**Water Bulletin**  
Source: New York State Department of Environmental Conservation  
Date: quarterly  
Subject: a broad spectrum of water quality and water resource management programs, issues and opportunities in New York State  
Level: adult  
Cost: contact source

**Water Environment**  
Source: Water Environment Federation  
Date: quarterly  
Subject: news for educators in water quality products and programs  
Level: grades K-12  
Cost: free

**Water Impacts**  
Source: Institute for Water Research  
Date: monthly  
Subject: information on groundwater, toxic chemicals, agriculture and legislation  
Level: teacher resource  
Cost: contact source
Pamphlets
<table>
<thead>
<tr>
<th>Title</th>
<th>Source</th>
<th>Date</th>
<th>Subject</th>
<th>Emphasis</th>
<th>Level</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACID RAIN STORY — THE FACTS</strong></td>
<td>Atmospheric Environment Services</td>
<td>1988</td>
<td>acid rain, U.S. and Canada, areas affected</td>
<td>environmental studies</td>
<td>grade 8 - undergraduate</td>
<td>free</td>
</tr>
<tr>
<td><strong>ACID RAIN: THE FACTS FOR MICHIGAN</strong></td>
<td>Michigan United Conservation Clubs</td>
<td>1985</td>
<td>data on acid rain in Michigan</td>
<td>ecology, science</td>
<td>grade 7 - undergraduate</td>
<td>free</td>
</tr>
<tr>
<td><strong>ARE GREAT LAKES FISH SAFE TO EAT?</strong></td>
<td>Michigan Sea Grant College Program</td>
<td>1991</td>
<td>fact sheet reveals chemicals found in Great Lakes fish and illustrates how to clean and cook the fish to remove most chemicals</td>
<td></td>
<td>adult</td>
<td>$.50/10 copy increments, US funds</td>
</tr>
<tr>
<td><strong>CLEAN WATERS</strong></td>
<td>Environment Canada Great Lakes Environment Office</td>
<td>1991</td>
<td>outlines problems facing the Great Lakes - St. Lawrence ecosystem</td>
<td></td>
<td>high school - adult</td>
<td>free</td>
</tr>
<tr>
<td><strong>DIOXIN IN GREAT LAKES FISH</strong></td>
<td>U.S. Environmental Protection Agency Great Lakes National Program Office - Region V</td>
<td>1986; 15 p.</td>
<td>carp and trout fillet samples analyzed around the Great Lakes</td>
<td></td>
<td>grades 8 - 12, teacher resource</td>
<td>free</td>
</tr>
<tr>
<td><strong>EATING GREAT LAKES FISH</strong></td>
<td>Michigan Sea Grant Extension / Michigan Sea Grant College Program</td>
<td>1987; Extension Bulletin E-2028</td>
<td>background information on contaminants in Great Lakes sport fish</td>
<td></td>
<td>grades 7 - 12, adult/general</td>
<td>$.25¢ each US funds</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL HEALTH PUBLICATIONS</strong></td>
<td>Freshwater Foundation</td>
<td>1992</td>
<td>a list of publications available from the Freshwater Foundation's health and environment programs</td>
<td></td>
<td>general</td>
<td>contact source</td>
</tr>
<tr>
<td><strong>FACT SHEETS — GREAT LAKES AREAS OF CONCERN</strong></td>
<td>The Center for the Great Lakes</td>
<td>1988/90, continuously updated</td>
<td>progress in remedial action technologies. The fact sheets track cleanup implementation throughout the lakes with several categories from contaminated sediments to upgrading wastewater treatment plants.</td>
<td></td>
<td>grade 7 - graduate, teacher resource</td>
<td>free in any quantity; advance notice for orders greater than 100</td>
</tr>
<tr>
<td><strong>FALL BEACHCOMBING</strong></td>
<td>Michigan Sea Grant College Program</td>
<td>1991</td>
<td>describes natural treasures on Great Lakes beaches - rocks, fossils, plants, animals, and shells. Explains beach sand formation, beach zones, and plant adaptation to harsh beach conditions</td>
<td></td>
<td>grade 7- adult, teacher resource</td>
<td>$1 US funds order # MICHU-SG-91-702</td>
</tr>
<tr>
<td><strong>GREAT LAKES MAPS/BROCHURES</strong></td>
<td>Michigan Sea Grant College Program</td>
<td>1990</td>
<td>six fact sheets and maps: Great Lakes basin (Bulletin #E-1865); Lake Superior (Bulletin #E-1866); Lake Michigan (Bulletin #E-1867); Lake Huron (Bulletin #E-1868); Lake Erie (Bulletin #E-1869) and Lake Ontario (Bulletin #E-1870).</td>
<td></td>
<td>grade 4 - adult, teacher resource</td>
<td>$1.50 for set; $.25 each US funds</td>
</tr>
<tr>
<td><strong>THE IJC, WHAT IT IS, HOW IT WORKS</strong></td>
<td>International Joint Commission</td>
<td>1990</td>
<td>the role of the IJC for boundary waters issues and the Great Lakes Water Quality Agreement</td>
<td></td>
<td>general</td>
<td>free</td>
</tr>
<tr>
<td>Title</td>
<td>Source</td>
<td>Date(s)</td>
<td>Subject</td>
<td>Level</td>
<td>Cost</td>
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<tr>
<td>OHIO SEA GRANT PUBLICATIONS BROCHURE</td>
<td>Ohio Sea Grant Education Program</td>
<td>1991</td>
<td>List of fact sheets and guides with attached order form</td>
<td>General</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>REMEDIAL ACTION PLANS FOR AREAS OF CONCERN</td>
<td>International Joint Commission</td>
<td>1987; 1989; 1992</td>
<td>General information on RAPs, the IJC's responsibility and the role of the public</td>
<td>Grades 5 - Adult</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>SPINY TAILED BYTHOРЕPHES IN THE GREAT LAKES</td>
<td>Michigan Sea Grant College Program</td>
<td>1990</td>
<td>Fact sheet describes the unusual biology of the non-native zooplankton, the spiny water flea, and its effect on the Great Lakes food web</td>
<td>Adult</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>SUPERIOR PURSUIT: FACTS ABOUT THE GREATEST GREAT LAKE</td>
<td>Minnesota Sea Grant Extension Services</td>
<td>1985; revised 1989</td>
<td>Fact sheet about Lake Superior: geology, water quality and fish</td>
<td>Grades 4 - 12, Teacher Resource</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>TOXIC SUBSTANCES IN THE GREAT LAKES BASIN ECOSYSTEM</td>
<td>International Joint Commission</td>
<td>1991</td>
<td>What is a toxic substance, where does it come from, and how can citizens stop their production and use of these chemicals?</td>
<td>Grades 5 - 12, Teacher Resource</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>WATER — HERE, THERE AND EVERYWHERE</td>
<td>Environment Canada Conservation and Protection - Inland Waters Directorate</td>
<td>1989</td>
<td>World's water system; fact sheet #2 (6 pages), available in English and French</td>
<td>Grades 4 - 12, Teacher Resource</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>WATER—NATURE'S MAGICIAN</td>
<td>Environment Canada Conservation and Protection Inland Waters Directorate</td>
<td>1989 (available in English &amp; French)</td>
<td>Water as a liquid, a solid or a gas — hydrologic cycle; fact sheet #1 (4 pages)</td>
<td>Grades 4 - 12, Teacher Resource</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>ZEBRA MUSSELS IN THE GREAT LAKES</td>
<td>Michigan Sea Grant College Program</td>
<td>1991</td>
<td>Fact sheet provides overview of zebra mussel biology and impact, describes how to prevent the spread of the mussel</td>
<td>Adult</td>
<td>Free</td>
<td></td>
</tr>
</tbody>
</table>
Periodicals / Serials / Journals
This section contains publications that are useful to educators in preparing teaching units.
ALTERNATIVES
Source: University of Waterloo
Date: quarterly
Subject: Aug./Sept. 1986 issue - excellent resource on Great Lakes [13:3]
Nov./Dec. 1990 issue - on water and sustainable development [17:3]
Level: undergraduate, graduate, teacher resource
Cost: out of print: photocopies available at $7.50 each Cdn funds

ARE GREAT LAKES FISH SAFE TO EAT?
Author: Schmidt, Wayne A.
Date: August/September 1989
Subject: reviews scientists' warnings against eating certain species regularly
Level: general
Cost: $3 US funds single issue (plus shipping)

AROUND THE ARCHIPELAGO
Source: Apostle Islands National Lakeshore
Date: twice a year (summer issue and fall/winter/spring issue)
Subject: ecology, biology and visitor activities at Apostle Islands National Lakeshore
Level: general
Cost: free

BUZZWORM: THE ENVIRONMENTAL JOURNAL
Source: Buzzworm Inc.
Date: bimonthly
Subject: an independent magazine reporting on national and international environmental issues
Level: adult
Cost: one year subscription: $18 US funds, $21 Cdn funds

E, THE ENVIRONMENTAL MAGAZINE
Source: Earth Action Network Inc.
Date: bimonthly
Subject: international publication promotes awareness of environmental concerns and issues
Level: adult/general
Cost: $20 per year US funds

EARTHKEEPER
Source: Earthkeeper Magazine
Date: bimonthly
Subject: provides a "hands-on and minds-on" source of environmental information
Level: adult
Cost: contact source

ECODECISION
Source: Environment and Policy Society
Date: quarterly
Subject: a bilingual magazine on environmental decisionmaking and policy; includes policy papers and scientific findings
Level: adult
Cost: contact source

ENVIRONMENT
Source: Heldref Publications
Date: ten issues per year
Subject: environmental topics, not Great Lakes specific, microform editions available through University Microfilms International
Level: undergraduate, graduate
Cost: $4.50 single issue; yearly subscriptions available

FOCUS A SPECIAL REPORT
Source: The Globe and Mail newspaper
Date: April 1989
Subject: articles on the air, land, water and waste
Level: undergraduate - adult
Cost: contact newspaper for shipping costs

FRESH WATER
Source: Marine Museum of the Great Lakes at Kingston, Ontario
Date: summer 1988
Subject: a journal of Great Lakes marine history
Level: high school
Cost: $4.50 Cdn funds
ISSN: 0834-4302

GREAT LAKES CLEAN-UP: CRITICAL TURNING POINT
Source: Canadian Geographic Magazine [106(44)]
Date: December 1990 / January 1991
Subject: Great Lakes pollution
Level: high school - adult
Cost: $3.95 per issue

GREAT LAKES SCANNER
Source: Port publications
Date: 10 issues per year
Subject: boating on the Great Lakes
Level: adult
Cost: $12 US funds

THE GREAT LAKES — A SPECIAL REPORT
Author: Hansen, Paul
Source: Outdoor America [53(2):12-16]
Date: summer 1988
Subject: history, toxic materials, programs
Level: high school
Cost: $1.50 US funds per issue
**THE GREAT LAKES, A TOXIC TRAGEDY**  
Source: The Milwaukee Journal  
Date: November 1988  
Subject: 16 pages of articles on toxics in the Great Lakes  
Level: undergraduate - adult  
Cost: contact newspaper for shipping charges

**THE GREAT LAKES - TROUBLED WATERS**  
Source: National Geographic Society  
[172(1):2-31]  
Date: July 1987  
Subject: high water levels and water quality  
Level: adult, teacher resource  
Cost: $18/year or $2.25 single issue (US funds)

**JOURNAL OF ENVIRONMENTAL EDUCATION**  
Source: Heldref Publications  
Date: quarterly  
Subject: environmental education theory and application  
Level: teacher resource  
Cost: free with membership

**JOURNAL OF GREAT LAKES RESEARCH**  
Source: International Association for Great Lakes Research - Ann Arbor  
Date: quarterly  
Subject: engineering, economics, social sciences, politics, physics, biology, planning  
Level: graduate, teacher resource  
Cost: free with membership

**JOURNEY**  
Source: Seaway Trail Inc.  
Date: annually  
Subject: magazine and directory promotes tourism in the Seaway Trail region of New York State  
Level: adult  
Cost: contact source

**LAKE SUPERIOR MAGAZINE**  
Source: Lake Superior Port Cities Inc.  
Date: bimonthly  
Subject: issues and events occurring in Lake Superior region  
Level: adult  
Cost: $21 US funds per year, $31 Cdn funds

**MANAGING THE GREAT LAKES BASIN AS A HOME**  
Source: Glenora Fisheries Station  
Date: 1986  
Subject: holistic perspective, ecosystem management, citizen participation  
Level: undergraduate, graduate, adult/general  
Cost: free

**MORE PRECIOUS THAN GOLD: THE STORY OF WATER IN MICHIGAN**  
Source: Detroit Free Press newspaper supplement  
Date: April 1989  
Subject: 16 pages of articles on Lake Michigan and the Great Lakes Basin  
Level: undergraduate - adult  
Cost: contact newspaper for shipping charges

**OUR FRAGILE FUTURE**  
Source: Southam Newspapers (Environment Project)  
Date: October 1989  
Subject: public information about the causes of environmental problems  
Level: general  
Cost: contact the Vancouver Sun, the Ottawa Citizen or Southam News in your local area for complete information

**AN OVERVIEW OF CANADIAN LAW AND POLICY GOVERNING GREAT LAKES WATER QUANTITY MANAGEMENT**  
Date: 1986  
Subject: diversions and consumptive use  
Level: graduate, teacher resource  
Cost: contact source

**PESTICIDES IN AMERICA**  
Source: The Hartford Courant  
Date: May 1987  
Subject: 16 pages of articles on pesticides  
Level: undergraduate - adult  
Cost: contact newspaper for shipping charges

**PIPELINES AND DIVERIONS IN THE GREAT LAKES BASIN**  
Source: University of Waterloo Department of Geography Publication Series  
Date: March 1991  
Subject: 20 papers presented at a two-day symposium  
Level: adult  
Cost: $24.90 Cdn funds

**SAILING MAGAZINE**  
Source: Port Publications  
Date: monthly  
Subject: the beauty of sailing with an emphasis on the Great Lakes  
Level: adult  
Cost: $24.95 one year US funds, $30 one year Cdn funds
<table>
<thead>
<tr>
<th><strong>SEASONS</strong></th>
<th><strong>Source:</strong> Federation of Ontario Naturalists</th>
<th><strong>Date:</strong> Autumn 1987 issue</th>
<th><strong>Subject:</strong> special on the Great Lakes, conservation, acid rain, endangered species</th>
<th><strong>Level:</strong> grade 5 - adult/general, teacher resource</th>
<th><strong>Cost:</strong> subscription from $16 Cdn funds per year; special issue $3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEA WAY REVIEW</strong></td>
<td><strong>Source:</strong> Harbor House Publishers</td>
<td><strong>Date:</strong> quarterly</td>
<td><strong>Subject:</strong> magazine on shipping in the Great Lakes - St. Lawrence system</td>
<td><strong>Level:</strong> high school / adult</td>
<td><strong>Cost:</strong> $20 US funds, $26 Cdn funds</td>
</tr>
<tr>
<td><strong>SOIL AND WATER CONSERVATION NEWS</strong></td>
<td><strong>Source:</strong> US Government Printing Office</td>
<td><strong>Date:</strong> bimonthly</td>
<td><strong>Subject:</strong> magazine of the Soil and Conservation Service, US Department of Agriculture</td>
<td><strong>Level:</strong> high school / adult</td>
<td><strong>Cost:</strong> $6 per year US funds, $7.50 Cdn funds (payable to the Superintendent of Documents)</td>
</tr>
<tr>
<td><strong>TAMING THE GREAT LAKES: IS IT REALLY NECESSARY?</strong></td>
<td><strong>Author:</strong> Gorrie, Peter</td>
<td><strong>Source:</strong> Royal Canadian Geographical Society [Canadian Geographic, 108(25): 14-24]</td>
<td><strong>Date:</strong> 1988</td>
<td><strong>Subject:</strong> lake levels</td>
<td><strong>Level:</strong> adult, teacher resource</td>
</tr>
<tr>
<td><strong>TRACKS</strong></td>
<td><strong>Source:</strong> Michigan United Conservation Clubs</td>
<td><strong>Date:</strong> May 1988; Volume 10, issue 9</td>
<td><strong>Subject:</strong> “Swim into Summer” issue contains articles on the Great Lakes, aquatic wildlife, shoreline protection, fish habitats</td>
<td><strong>Level:</strong> upper elementary grades</td>
<td><strong>Cost:</strong> $1.50 US funds</td>
</tr>
<tr>
<td><strong>A TRIBUTE TO THE GREAT LAKES</strong></td>
<td><strong>Source:</strong> Michigan Department of Natural Resources Magazine</td>
<td><strong>Date:</strong> May/June 1986</td>
<td><strong>Subject:</strong> sketches and articles about the history, policy, fisheries, water quality, and future of each lake</td>
<td><strong>Level:</strong> undergraduate - adult</td>
<td><strong>Cost:</strong> contact source</td>
</tr>
</tbody>
</table>

**WATERLINE MAGAZINE**

**Source:** Waterline Publications Ltd.  
**Date:** bimonthly  
**Subject:** watersport magazine for southwestern Ontario's power and sail boaters, anglers, scubadivers, kayakers, canoeists and environmentalists  
**Level:** adult  
**Cost:** $14.98 - two years Cdn funds; $19 - two years US funds
Special Reports

Directory of Great Lakes Education Material
Abstracts of Research in Marine and Aquatic Education
Source: Ohio Sea Grant Education Program
Date: 1991
Subject: a brief review of the topics addressed in marine and aquatic education research over the last 15 years
Level: adult
Cost: $4 US funds

Activities Report, International Joint Commission
Source: International Joint Commission
Date: 1973 - 1989 (available in English & French)
Subject: describes the Commission and its activities along the entire length of the Canadian/United States border, including the Great Lakes
Level: undergraduate, graduate and adult / general
Cost: free

Annual Report, Great Lakes Fishery Commission
Source: Great Lakes Fishery Commission
Date: annually
Subject: fisheries, natural resources management
Level: undergraduate or teacher resource
Cost: free

Broken Agreement
Source: Great Lakes United
Date: 1991
Subject: the failure of the US and Canada to implement the Great Lakes Water Quality Agreement
Level: adult
Cost: contact source

A Citizen's Guide to the Great Lakes Water Quality Agreement
Source: Great Lakes United
Date: 1988; 96 p.
Subject: description of the Great Lakes Water Quality Agreement, designed to help citizens to use the agreement more effectively to promote cleanup of the Great Lakes
Level: general
Cost: $3 US funds

A Citizen's Agenda for Restoring Lake Ontario: Report of a Regional Meeting on Lake Ontario Water Quality Issues
Source: Great Lakes United
Date: 1987; 46 p.
Subject: toxic materials, water and air pollution
Level: high school - university
Cost: photocopy/$10. US funds

Currents of Change
Author: Pearse, P.H., F. Bertrand, J.W. MacLaren
Source: Environment Canada Enquiry Centre
Date: 1985
Subject: water quality, uses and pressures, water management, federal and international arrangements, occasional Great Lakes
Level: undergraduate, graduate, teacher resource
Cost: free

The Great Lakes: A Stewardship Left Unattended
Source: Charles Stewart Mott Foundation
Date: 1989 annual report
Subject: state of water quality, research and management
Level: adult
Cost: free

Great Lakes Water Quality Agreement of 1978
Source: International Joint Commission
Date: 1978 (available in French & English)
Subject: United States/Canada policy, water quality, environmental policy and law
Level: undergraduate, adult/general teacher resource
Cost: free

IAGLR Program and Abstracts - Annual Conference
Source: International Association of Great Lakes Research
Date: annually
Subject: overview of the latest Great Lakes research topics and listings of sources
Level: undergraduate, graduate, teacher resource
Cost: free with membership

Living with the Lakes: Challenges and Opportunities, A Progress Report to the International Joint Commission
Source: International Joint Commission
Date: 1989
Subject: a study in response to the reference from the Governments of Canada and the United States on the fluctuating water levels in the Great Lakes - St. Lawrence River basin
Level: grades 10 - 12, graduate, teacher resource
Cost: free
MAKING RAPS HAPPEN
Source: The Center for the Great Lakes
Date: 1991
Subject: financing and managing cleanups of the Areas of Concern
Level: adult
Cost: $10 US funds

A PLAN OF GEOLOGIC RESEARCH ON COASTAL EROSION, COASTAL WETLANDS, POLLUTED SEDIMENTS AND COASTAL HARD-MINERAL RESOURCES
Source: US Geological Survey
Date: 1990
Subject: report outlines findings that the principal problem in the Great Lakes region is toxic waste
Level: adult
Cost: contact source

PRESCRIPTION FOR HEALTHY GREAT LAKES
Source: National Wildlife Federation / Canadian Institute for Environmental Law and Policy
Date: 1991
Subject: report of the program for zero discharge
Level: adult
Cost: $2 US funds

PROMISES IN JEOPARDY
Source: Great Lakes United
Date: 1988
Subject: assessment of the Great Lakes Water Quality Agreement and pollution control programs in the Great Lakes
Level: adult/general
Cost: $2 US funds

Source: Minnesota State Planning Agency
Date: 1989; 14 p.
Subject: protecting Minnesota’s inland lakes, groundwater and Lake Superior
Levels: general audience
Cost: free

STATE OF THE GREAT LAKES ANNUAL REPORT
Source: Michigan Department of Natural Resources, Office of The Great Lakes
Date: 1989
Subject: highlights various program initiatives aimed at the protection and management of the Great Lakes
Level: adult/general
Cost: free

A STRATEGY FOR THE WISE USE OF PESTICIDES AND NUTRIENTS
Source: Minnesota State Planning Agency
Date: December 1988; 61 p.
Subject: uses of pesticides and protection of nutrients in the home, forested lands, agriculture, parks and others
Level: undergraduate/adult
Cost: free

SWEET WATER, BITTER RAIN
Source: Great Lakes United
Date: 1989
Subject: air emissions and how they travel and spread toxic chemicals into the Great Lakes system
Level: adult
Cost: $3 US funds

TOXIC CHEMICALS IN THE GREAT LAKES AND ASSOCIATED EFFECTS
Source: Environment Canada Great Lakes Environment Office/Health and Welfare Canada Publication Distribution Centre/ Department of Fisheries and Oceans Communications Directorate
Date: 1991
Subject: review of scientific knowledge of the levels of toxic chemicals in the Great Lakes basin and their effects on human health, fish and wildlife
Level: adult/general
Cost: contact source

UNFULFILLED PROMISES: A CITIZENS’ REVIEW OF THE INTERNATIONAL GREAT LAKES WATERS QUALITY AGREEMENT
Source: Great Lakes United
Date: February 1987; 96 p.
Subject: assessment of governmental action under the 1978 Great Lakes Water Quality Agreement
Level: adult
Cost: $5 US funds

WATER FOR LIFE — THE TOUR OF THE GREAT LAKES
Source: Greenpeace - Great Lakes
Date: 1989
Subject: information and recommendations from Greenpeace’s 1988 tour of the Great Lakes’ portion of the North American Inland Waters Expedition
Level: undergraduate, graduate, teacher resource
Cost: $15 US funds
Distributors / Ordering Source
Grant Foundations
Museum / Resource / Nature Centres
Miscellaneous
Distributors / Ordering Source

Network of organizations who offer the materials included in this Directory.
<table>
<thead>
<tr>
<th><strong>Access Network Program Services</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>295 Midpark Way</td>
</tr>
<tr>
<td>S E Calgary, AB</td>
</tr>
<tr>
<td>T2X 2A8 (403) 256-1100</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Acid Rain Foundation, Inc.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1410 Varsity Drive</td>
</tr>
<tr>
<td>Raleigh, NC 27606</td>
</tr>
<tr>
<td>(919)828-9443</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>Air &amp; Waste Management Association</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 2861</td>
</tr>
<tr>
<td>Pittsburgh, PA 15230</td>
</tr>
<tr>
<td>(412)232-3444</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>Alberta Environment, Communications Branch</strong></th>
</tr>
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<tbody>
<tr>
<td>Oxbridge Place, 9820 106 Street</td>
</tr>
<tr>
<td>Edmonton, AB T5K 9Z9 (403)427-6310/2739</td>
</tr>
<tr>
<td>Note: newsletter (applicable to Great Lakes)</td>
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<thead>
<tr>
<th><strong>The American Groundwater Trust</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>6375 Riverside Drive</td>
</tr>
<tr>
<td>Dublin, OH 43017 (614)761-1711</td>
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<thead>
<tr>
<th><strong>American Waterworks Association</strong></th>
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<tbody>
<tr>
<td>6666 West Quincy Avenue, Denver, CO</td>
</tr>
<tr>
<td>80235 (303)794-7711</td>
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<table>
<thead>
<tr>
<th><strong>Apostle Islands National Lakeshore</strong></th>
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<tbody>
<tr>
<td>Chief of Interpretation</td>
</tr>
<tr>
<td>National Park Service</td>
</tr>
<tr>
<td>Route 1, Box 4</td>
</tr>
<tr>
<td>Bayfield, WI 54814 (715)779-3397</td>
</tr>
<tr>
<td>Note: Lake Superior Bibliography</td>
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<table>
<thead>
<tr>
<th><strong>Association for Great Lakes Maritime History</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>75 Maritime Drive</td>
</tr>
<tr>
<td>Manitowoc, WI 54220 (414)684-0218</td>
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<table>
<thead>
<tr>
<th><strong>Atlantic States Legal Foundation</strong></th>
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<tbody>
<tr>
<td>658 W. Onondaga St.</td>
</tr>
<tr>
<td>Syracuse, NY 13204-3757</td>
</tr>
<tr>
<td>(315)475-1170</td>
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<table>
<thead>
<tr>
<th><strong>Atmospheric Environment Services</strong></th>
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<tbody>
<tr>
<td>Communications Directorate</td>
</tr>
<tr>
<td>4905 Dufferin Street</td>
</tr>
<tr>
<td>Downsview, ON M3H 5T4 (416)739-4759</td>
</tr>
<tr>
<td>Note: occasional Great Lakes material</td>
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<table>
<thead>
<tr>
<th><strong>Brauer Productions</strong></th>
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</thead>
<tbody>
<tr>
<td>402 Cass Street</td>
</tr>
<tr>
<td>Traverse, MI 49684</td>
</tr>
<tr>
<td>(616)941-0850</td>
</tr>
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<tr>
<th><strong>Bullfrog Films</strong></th>
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<tbody>
<tr>
<td>Oley, PA 19547</td>
</tr>
<tr>
<td>(800)543-FROG or (215)779-8226</td>
</tr>
<tr>
<td>Note: free catalogue upon request</td>
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<table>
<thead>
<tr>
<th><strong>Buzzworm, Inc.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2305 Canyon Blvd. Suite 206</td>
</tr>
<tr>
<td>Boulder, CO 80302 (303)442-1969</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>Canadian Environmental Law Association Research Foundation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>517 College Street, Suite 400</td>
</tr>
<tr>
<td>Toronto, ON M6G 4A2 (416)723-3529</td>
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<table>
<thead>
<tr>
<th><strong>Canadian Geographic Magazine/Society</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>39 McArthur Avenue</td>
</tr>
<tr>
<td>Vanier, ON K1L 8L7 (613)745-4629</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>Box 1518, Champlain, NY 12919-1518</td>
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<tr>
<th><strong>Carswell Legal Publications</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2330 Midland Avenue</td>
</tr>
<tr>
<td>Agincourt, ON M1S 1P7 (416)291-8421</td>
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<table>
<thead>
<tr>
<th><strong>Cartographic Art for Science</strong></th>
</tr>
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<tbody>
<tr>
<td>c/o Ratko J. Ristic</td>
</tr>
<tr>
<td>3558 North Murray Avenue</td>
</tr>
<tr>
<td>Shorewood, WI 53211</td>
</tr>
<tr>
<td>Note: mail orders only</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>Center for Environmental Study</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Room 70M, 143 Bostwick NE</td>
</tr>
<tr>
<td>Grand Rapids, MI 49503 (616)771-3935</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>The Center for the Great Lakes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>35 East Wacker Dr. Suite 1870</td>
</tr>
<tr>
<td>Chicago, IL 60601 (312)263-0785</td>
</tr>
<tr>
<td>Note: student/teacher materials, newsletter, fact sheets on Areas of Concern</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>The Centre for the Great Lakes</td>
</tr>
<tr>
<td>77 Harbour Square, Suite 2408</td>
</tr>
<tr>
<td>Toronto, ON M5J 2H2</td>
</tr>
<tr>
<td>(416)868-0550</td>
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<thead>
<tr>
<th><strong>CFPL-TV London News</strong></th>
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<tbody>
<tr>
<td>Box 2880</td>
</tr>
<tr>
<td>London, ON N6A 4H9</td>
</tr>
<tr>
<td>(519)686-8810</td>
</tr>
<tr>
<td>FAX (519)686-3288</td>
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<thead>
<tr>
<th><strong>Charles Stewart Mott Foundation</strong></th>
</tr>
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<tbody>
<tr>
<td>1200 Mott Foundation Building</td>
</tr>
<tr>
<td>Flint, MI 48502-1851 (313)238-5651</td>
</tr>
</tbody>
</table>

Directory of Great Lakes Education Material
ENVIRONMENT CANADA
ENQUIRY CENTRE
ENVIRONMENTAL PROTECTION SERVICE
351 St. Joseph Blvd. (Hull PQ)
Ottawa, ON K1A 0H3 (613)997-2800
1-800-668-6767

ENVIRONMENT CANADA
GREAT LAKES ENVIRONMENT OFFICE
Ontario Region
25 St. Clair Avenue East, 6th floor
Toronto, ON M4T 1M2
(416)973-6467/1093/8632

ENVIRONMENT CANADA
GREAT LAKES WATER LEVELS COMMUNICATIONS
Canada Centre for Inland Waters
P.O. Box 5050, 867 Lakeshore Road
Burlington, ON L7R 4A6 (416)336-4581

ENVIRONMENT CANADA
CONSERVATION AND PROTECTION INLAND WATERS DIRECTORATE
Editorial and Publications Section
Ottawa, ON K1A 0H3 (819)997-2601
FAX (819)997-8701

ENVIRONMENT NORTH
Box 2505 Thunder Bay, ON
P7B 5E9 (807)343-9380 (answering device)

ENVIRONMENTAL HAZARDS MANAGEMENT INSTITUTE
P.O. Box 932, 10 Newmarket Road
Durham, NH 03824 (603)868-1496 in US 1-800 446-5256

ENVIRONMENTAL HAZARDS TEAM
c/o NIMBI (Now I Must Become Involved)
RR#7 Dunnville, ON N1A 2W6 (416)774-4769

ENVIRONMENT AND POLICY SOCIETY
276 rue St. Jacques Ouest, Bureau 924
Montreal. PQ H2Y 1N3 (514)284-3043

THE FARM BUILDING PLAN SERVICE
1146 AGEN Building, Purdue University
West Lafayette, IN 47907-1146
(317)494-1172

FEDERATION OF ONTARIO NATURALISTS (FON)
355 Lesmill Road
Don Mills, ON M3B 2W8 (416)444-8419
Note: Seasons magazine-Great Lakes issue

FRESHWATER FOUNDATION
725 County Road #6
Wayzata, MN 55391 (612)449-0092

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INSTITUTE FOR WATER SCIENCES
Groundwater Education in Michigan
Western Michigan University
Kalamazoo, MI 49008 (616)387-4986

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Picton, ON KOK 2T0 (613)476-7877

THE GLOBE AND MAIL
444 Front Street West
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GRAND VALLEY STATE UNIVERSITY
DEPARTMENT OF PHYSICS
Allendale, MI 49401 (616)895-2275/3179

GREAT LAKES COMMISSION
Argus II Building
400 South Fourth Street
Ann Arbor, MI 48103-4816 (313)665-9135

GREAT LAKES FISHERY COMMISSION
2100 Commonwealth Blvd. Suite 209
Ann Arbor, MI 48105-1563 (313)662-3209

GREAT LAKES HISTORICAL SOCIETY
480 Main Street
Vermilion, OH 44089 (216)967-3467
Note: museum dealing with Great Lakes history, library use for members

GREAT LAKES INDIAN FISH AND WILDLIFE COMMISSION
P.O. Box 9, Odanah, WI 54861
Note: mail orders only

GREAT LAKES PROGRAM OFFICE
State University of New York at Buffalo (SUNY)
207 Jarvis Hall
Buffalo, NY 14260 (716)636-2088 or (716)636-3667
Note: for materials: checks payable to: UB Foundation Activities Inc.

GREAT LAKES RESEARCH CONSORTIUM
214 Baker Laboratory, SUNY ESF
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Toronto, ON M5T 2C6 (416)345-8408
or
Greenpeace Great Lakes Office
1017 West Jackson Blvd.
Chicago, IL 60607 (312)666-3305

The Green Project
(Global Rivers Environmental Education Network)
University of Michigan School of Natural Resources
Ann Arbor, MI 48109-1115 (313)764-5171

Green Teacher
95 Robert Street
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Hamilton Productions Inc.
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Boyne City, MI 49712 (616)582-2814

The Hartford Courant
285 Broad Street
Hartford, CT 06115 (203)241-6200

Hawkhill Associates, Inc.
125 East Gilman Street
Madison, WI 53703
1-800-422-4295: in state (608)251-3934
Note: free catalog on basic science literacy

Health and Welfare Canada
Publication Distribution Center
19th floor, Jeanne Mance Building
Tunneys Pasture
Ottawa, ON K1A 0K9 (613)957-2991

Heldref Publications
Helen Dwight Reid Educational Foundation
4000 Albemarle Street NW, Suite 504
Washington, DC 20016 (202)362-6445

Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62794-9276 (217)782-5562
Note: produces slide-tape program and coloring book on water activities

Illinois-Indiana Sea Grant Program Communications Office
University of Illinois
65 Mumford Hall, 1301 West Gregory Drive
Urbana, IL 61801 (217)333-9448
Note: for materials, checks payable to the University of Illinois

Illinois State Geological Surveys
Department of Energy and Natural Resources
615 E. Peabody Drive
Champaign, IL 61820-6964 (217)244-2411

Indiana Department of Education
Division of Curriculum
Office of the Superintendent
Room 229, State House
Indianapolis, IN 46204 (317)927-0111

Inland Seas Education Association
P.O. Box 4223
Traverse City, MI 49685-4223 (616)941-5577

Innovative Communications Inc.
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Pleasant Hill, CA 94523 (415)944-0923

Institute for Research on Public Policy
275 Slater St., Suite 500
Ottawa, ON K1P 5H9 (613)238-2296

Institute for Water Research
Michigan State University
334 Natural Resources
East Lansing, MI 48824-1222 (517)353-3742

International Association for Great Lakes Research (IAGLR)
University of Toronto Scarborough Campus
1265 Military Trail
Scarborough, ON M1C 1A4 (416)978-2011
or
International Association for Great Lakes Research (IAGLR)
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IST Building, 2200 Bonisteel Blvd.
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Note: newsletter and conferences

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MICHIGAN UNITED CONSERVATION CLUBS
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2101 Wood Street, Box 30235
Lansing, MI 48909 (517)371-1041
Note: Extensive conservation education program as affiliate of National Wildlife Federation

THE MILWAUKEE JOURNAL
P.O. Box 661
Milwaukee, WI 53201 (414)224-2000

MINNESOTA BOARD OF WATER AND SOIL RESOURCES
155 South Wabasha, Suite 104
St. Paul, MN 55107 (612)296-3767

MINNESOTA DEPARTMENT OF HEALTH
925 Delaware Street, S.E.
Box 59040 Minneapolis, MN 55459-0040 (612)627-5125

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520 Lafayette Road
St. Paul, MN 55155 (612)296-6300/7331

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WI: (608)262-0905

MINNESOTA SEA GRANT EXTENSION SERVICES
UNIVERSITY OF MINNESOTA
208 Washburn Hall
2305 East 5th Street
Duluth, MN 55812 (218)726-8106

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211 Watline Avenue, Suite 210
Mississauga, ON L4Z 1P3 1-800-268-2948
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Jason Curriculum

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One Nicholas Street, Suite 406
Ottawa, ON KIN 787 (819)994-5142

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UNIVERSITY OF MICHIGAN - DEARBORN
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UNIVERSITY OF MICHIGAN PRESS
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Waterloo, ON N2L 3G1 (519)885-1211 ext.#6783

UNIVERSITY OF WATERLOO DEPARTMENT OF GEOGRAPHY
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Madison, WI 53707-7840
Note: For Dept. of Natural Resources Study Guide make checks payable to: Document Sales

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P.O. Box 7921
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WISCONSIN DEPARTMENT OF NATURAL RESOURCES - GREEN BAY
Lake Michigan District Headquarters
P.O. Box 10448, 1125 N. Military Ave.
Green Bay, WI 54307 (414)492-5904/5800

WISCONSIN DEPARTMENT OF PUBLIC INSTRUCTION
125 South Webster Street, P.O. Box 7841
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Marquette, MI 49855 (906)227-1300

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Philadelphia, PA 19104 (215)387-0220

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NATIONAL SCIENCE FOUNDATION
SCIENCE, TECHNOLOGY AND INTERNATIONAL AFFAIRS
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Washington, D.C. 20550 (202)653-5437

THE RICHARD IVEY FOUNDATION
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London, ON N6A 5J9 (519)673-1280

THE RICHARD & JEAN IVEY FUND
Suite 508-380 Wellington
London, ON N6A 5B5 (519)679-0870

SHELL ENVIRONMENTAL FUND
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Calgary, AB T2P 2H5
Shell Helps Centre 1-800-661-1600
Note: For Canadian Projects Only

THE GEORGE GUND FOUNDATION
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Museum / Nature / Resource Centres

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Route #1, Box 4
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**Cable Natural History Museum**
PO Box 416
Cable, WI 54821 (715)798-3890

**Canal Park Marine Museum, Lake Superior Marine Museum Association**
Duluth, MN 55802 (218)727-2497

**Chicago Academy of Sciences**
Lincoln Park-2001 N. Clark St.
Chicago, IL 60614 (312)549-0606 ext. 2011
FAX 549-5199

**Chicago Maritime Society**
North Pier-435 E. Illinois St.
Chicago, IL 60611 (312)836-4343

**The Children's Museum of Indianapolis**
3000 N. Meridian St.
Indianapolis, IN 46208 (317)924-5431

**Chippewa Nature Center, Inc.**
400 S. Badour Road
Midland, MI 48640-8661 (517)631-0830

**Dahlem Environmental Education Center**
Jackson Community College
7117 S. Jackson Road
Jackson, MI 49201-8399 (517)782-3453

**Dossin Great Lakes Museum**
Strand Drive, Belle Isle
Detroit, MI 48207 (313)267-6440
Note: photos, periodicals, abstracts and indexes on ships/shipping in the Great Lakes

**The Energy Center**
P.O. Box 81, Lake Road
Lycoming, NY 13093 (315)342-4117
Note: The visitor center for three operating Nuclear Power Stations/Plants

**Fathom Five National Marine Park**
P.O. Box 189,
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**Georgian Bay Island National Park**
P.O. Box 28
Honey Harbour, ON P0E 1E0

**Illinois State Geological Survey**
Department of Energy and Natural Resources
615 E. Peabody Drive
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**Indiana Dunes National Lakeshore**
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3582 State Park Drive
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Note: book on Tobico Marsh $7 US funds proceeds towards the Center's programs.

**John G. Shedd Aquarium**
The Ocean By the Lake
1200 South Lake Shore Drive
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Note: aquatic programs/workshops in Great Lakes, videos

**Lake Erie Nature and Science Center**
28728 Wolf Rd.,
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**Lake Superior Center**
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Duluth, MN 55802 (218)720-3033

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Dorset, ON POA 1E0 (705)766-2451

**Mackinac Island State Park Commission**
P.O. Box 30028
Lansing, MI 48909 (517)322-1319
Summer: P.O. Box 370
Mackinac Island, MI 49757 (906)847-3328

**Manitowoc Maritime Museum**
75 Maritime Dr.
Manitowoc, WI 54220 (414)684-0218

**Marine Museum Of The Great Lakes At Kingston**
55 Ontario Street
Kingston, ON K7L 2Y2 (613)542-2261
Note: education programmes

**Maritime Discovery Center of Rochester Inc.**
119 Lake Front Walk
Rochester, NY 14617 (716)467-0897

**Maritime Heritage Alliance**
P.O. Box 1108
Traverse City, MI 49684 (616)946-3151
MICHIGAN HISTORICAL MUSEUM
717 W. Allegan Street
Lansing, MI 48918 (517)373-3559

MICHIGAN MARITIME MUSEUM
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Note: Formerly the "Lake Michigan Maritime Museum"

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Washington, D.C. 20013 (202)382-8520

STATE HISTORICAL SOCIETY OF WISCONSIN
816 State St.
Madison, WI 53706 (608)264-6400

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1932 Government Road
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AQUATIC PROJECT WILD
in United States contact:
Box 18060
Boulder, CO 80308-8060 (303)444-2390
or
in Canada contact:
Canadian Wildlife Federation
2740 Queensview Drive,
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12764 Levis Parkway
Perrysburg, OH 43551 (419)372-2531
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Burlington, ON L7R 4A6 (416)336-4999
Note: Great Lakes water resources, publications, newsletter, audio-visuals

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112 St. Clair Avenue West, Suite 401
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Note: free information packages

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125 Sussex Drive
Ottawa, ON K1A 0G2 (613)996-9134
Note: periodic/occasional Great Lakes

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Great Lakes Environmental Research Laboratory (through NOAA)
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Ann Arbor, MI 48105 (313)668-2244

Great Lakes Institute
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Windsor, ON N9B 3P4 (519)253-4232
Note: technical reports

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(613)997-1876 FAX:(613)952-9798

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Springfield, IL 62701-1787 (217)782-7454
Note: natural resources (217)785-3450

Illinois Department of Energy
and Natural Resources
325 West Adams Street, Room 300
Springfield, IL 62704-1892 (217)785-2800

Illinois State Board of Education
100 North First Street
Springfield, IL 62777 (217)782-2826

Indiana Department of Natural Resources
Division of Water
2475 Directors Row
Indianapolis, IN 46204 (317)232-4160

Michigan Department of Education
School Program Services
PO Box 30008
Lansing, MI 48909 (517)373-4223

Michigan Department of Natural Resources
Surface Water Quality Division
PO Box 30028
Stevens T. Mason Bldg.
Lansing, MI 48909
general information - (517)373-1214

Ministry of Transportation and Communications
Government of Ontario
1201 Wilson Avenue East Building
Downsview, ON M3M 1J8 (416)248-3604

Minnesota Clean Rivers Project
DNR Trails and Waterways
500 Lafayette Road, Box 52
Saint Paul, MN 55155-4052 (612)296-4822

Minnesota Department of Education
Department of Environmental Education
644 Capitol Square Bldg.
St. Paul, MN 55101 (612)297-2228

Minnesota Department of Natural Resources
500 Lafayette Road,
St. Paul, MN 55155 (612)296-6157

National Earth Science Teachers Association
c/o 733 Lorraine Street
Grosse Pointe, MI 48230 (313)882-2569

National Oceanic and Atmospheric Administration (NOAA)
Great Lakes Water Levels Section
Office of Oceanography and Marine Services
6001 Executive Blvd.
Rockville, MD 20852 (301)443-8631
Note: occasional Great Lakes material

Natural Resources Defence Council
1350 New York Ave. NW, Suite 300
Washington, DC 20005 (202)783-7800

New York State Department of Education
Room 314H
Albany, NY 12234 (518)474-2121

Ohio Department of Education
Division Elementary & Secondary Education
65 South Front Street, Room 1005
Columbus, OH 43266 (614)466-2211

Ohio Department of Natural Resources
1939 Fountain Square, Bldg. E-3
Columbus, OH 43224 (614)265-6712

Ohio Environmental Council
22 E. Gay Street, Suite 300
Columbus, OH 43215 (614)224-4900
TV Ontario
in Canada: P.O. Box 200, Station Q
Toronto, ON M4T 2T1
within ON customer service (416)484-2612
outside ON marketing (416)484-2613
or
United States sales office
145 West Franklin Street Suite 206
Chapel Hill, NC 27516 1-800-331-9566

University of Michigan
Center for Great Lakes and Aquatic Sciences
2200 Bonisteel Blvd.
Ann Arbor, MI 48109-2099 (313)763-5393
Note: Laurentian Research Vessel

University of Michigan
School of Natural Resources
Dana Building
Ann Arbor, MI 48109 (313)763-3758

University of Minnesota Sea Grant College Program
1518 Cleveland Avenue North, #302
St. Paul, MN 55108 (612)625-1253

University Microfilms International
300 North Zeeb Road
Ann Arbor, MI 48106 (313)761-4700
(800)345-9084 within the US
(800)343-5299 outside the US

U.S. Army Corps of Engineers
McNamara Building
PO Box 1027 - 477 Michigan Avenue
Detroit, MI 48231 (313)226-4680

U.S. Environmental Protection Agency
A-108 EA
Office of External Relations and Education
410 M Street, S.W.
Washington, DC 20460 (202)382-4454

U.S. National Park Service
P.O. Box 37127
Washington, DC 20013-7127 (202)254-3676
Note: directory of air quality, audiovisual materials

Wisconsin Department of Public Instruction
125 South Webster Street, P.O. Box 7841
Madison, WI 53707 (608)267-9266

Youth Fisheries Education Program
Ontario Ministry of Natural Resources
90 Sheppard Avenue East, 5th floor,
North York, ON M2N 3A1 (416)314-1145
Note: Attn: Fisheries Education Coordinator