Welcome to the third edition of the Directory of Great Lakes Education Material. This project began in 1984, when the Science Advisory Board’s Socioeconomics Subcommittee surveyed several hundred educators and producers of educational programs to determine what materials they found most useful in teaching others about the Great Lakes. The goal of the survey was to determine what items were available, and which were used most often for various subject areas and grades. Results of this survey were tabulated, and a followup questionnaire was sent in early 1987 to update responses to produce the first edition of this directory. The second edition in 1988 included minor updates to the listings.

To produce this latest edition, more than 600 educators were surveyed to determine whether there has been an increase in the type and amount of materials available on the Great Lakes, as well as the frequency with which teachers are using these materials. What we found is encouraging.

First, more information is being produced. The wide variety of pamphlets, technical reports and booklets available from government agencies, environmental organizations and scientific bodies continues to expand, and teachers still find this information useful in developing their own educational programs. Second, this information and materials written specifically for the educational setting are getting into teachers’ hands more quickly, and from a wider variety of sources. The survey responses hopefully show that greater marketing efforts are being expended to get Great Lakes materials into the classroom, and that teachers are seeking out information on the lakes more than they were even two years ago.

The focus of materials has again changed. While most materials produced in the 1970s were for younger audiences and tended to emphasize geography, history and shipping, books written in the early 1980s were written for older audiences and focused on Great Lakes water quality or quantity issues. Since 1986, the emphasis has shifted to younger audiences — kindergarten through eighth grade, for the most part — and these new materials are including information on how humans affect the ecosystem as well as on the lakes themselves.

Videotapes have replaced slide-tape programs and films as a major avenue for instruction. Finally, while the number of curriculum-based or classroom-ready materials is increasing, teachers listed this as the area where Great Lakes materials are still lacking, particularly those which focus on an ecosystem approach to management of the Great Lakes.

As a result of what we’ve learned from the latest survey and our own interaction with educators, several changes have been made to the directory; these revisions are highlighted on the next page. Efforts are still needed to encourage state, provincial and local boards of education to include Great Lakes issues in their curriculums, and to assist educators as they develop their own programs based on information from resource materials.

If we are to preserve the Great Lakes ecosystem for the use and enjoyment of future generations, today’s young students must learn to appreciate and respect the Great Lakes as a unique system that provides endless benefits for its inhabitants. It is hoped this directory, and its future editions, will provide a list of materials for educators to use in accomplishing this task. On behalf of the Science Advisory Board, we thank all those who participated in the development of this directory, by responding to our surveys and providing materials for inclusion in this third edition of the Directory of Great Lakes Education Material.

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

Beverley Croft
Information Officer
Great Lakes Regional Office
International Joint Commission
HOW TO USE THIS BOOK

The third edition of this directory has been restructured slightly so that educators can more easily locate the type of materials they most want to use. For example, an alphabetical title index has been added to the beginning of the directory, which identifies materials by the areas each addresses.

Each resource entry is placed in a category according to its format, from audio-visual to printed form. Materials which were listed in the "Kits" and "Other" sections in previous directory editions are now in the "Instructional" category, and newspaper supplements and university newsletters about the Great Lakes have been added to the "Periodicals" section. In the latter case, educators pointed to these items as being of particular use in preparing learning units.

As much information as possible has been included in each entry: titles, sources, publishing dates, subjects covered, approximate audience level (this is always approximate since all students are not the same), and ISBN/ISSN numbers as available. A list of sources from which an educator can receive materials or additional information on the Great Lakes, has also been included. Special notes from the entry sections are included in the sources section as well.

While the cost of materials is included, we strongly recommend that the educator inquire about costs, including shipping and handling, when they contact each source. Government agencies that normally produce pamphlets and other materials for distribution free of charge may exact a fee for multiple copies, or for shipping and handling.

This directory will be updated biennially. If educators find revisions are necessary in specific listings or have additional resources they would like included in the directory, we would greatly appreciate these comments and suggestions. Please address all comments and/or updates to:

Information Services
International Joint Commission
Great Lakes Regional Office
100 Ouellette Avenue, Eighth floor
Windsor, Ontario N9A 6T3 (519)256-7821

or

P.O. Box 32869
Detroit, Michigan 48232-2869 (313)226-2170
TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alphabetical Index Chart</strong></td>
<td><strong>vi</strong></td>
</tr>
<tr>
<td><strong>Audio-Visual Materials</strong></td>
<td><strong>1</strong></td>
</tr>
<tr>
<td>This section includes slides, films, videotapes and cassettes.</td>
<td></td>
</tr>
<tr>
<td><strong>Books</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Most books found in this section were produced in the 1980s.</td>
<td></td>
</tr>
<tr>
<td><strong>Booklets</strong></td>
<td><strong>21</strong></td>
</tr>
<tr>
<td>This section contains materials produced by government and non-government agencies.</td>
<td></td>
</tr>
<tr>
<td><strong>Instructional Materials</strong></td>
<td><strong>25</strong></td>
</tr>
<tr>
<td>Classroom activities, computer programs, kits and reference directories are contained in this section.</td>
<td></td>
</tr>
<tr>
<td><strong>Newsletters</strong></td>
<td><strong>39</strong></td>
</tr>
<tr>
<td>This section contains the titles of newsletters that deal with the Great Lakes basin as a whole or in part, either occasionally or entirely.</td>
<td></td>
</tr>
<tr>
<td><strong>Pamphlets</strong></td>
<td><strong>47</strong></td>
</tr>
<tr>
<td>This section contains a selected number of pamphlets available from various government and private environmental agencies.</td>
<td></td>
</tr>
<tr>
<td><strong>Periodicals, Serials, Journals</strong></td>
<td><strong>51</strong></td>
</tr>
<tr>
<td>This section contains periodicals, journals and serial publications that are useful to educators in preparing teaching units.</td>
<td></td>
</tr>
<tr>
<td><strong>Special Reports</strong></td>
<td><strong>55</strong></td>
</tr>
<tr>
<td>This section contains special reports from various Great Lakes agencies and organizations.</td>
<td></td>
</tr>
<tr>
<td><strong>Sources</strong></td>
<td><strong>59</strong></td>
</tr>
<tr>
<td>This section contains a list of selected sources of material. These sources produce or collect bodies of information too numerous to list individually, although some important publications may be found listed specifically in other sections.</td>
<td></td>
</tr>
<tr>
<td>PAGE</td>
<td>TITLE</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Acid Rain</td>
</tr>
<tr>
<td>3</td>
<td>Acid Rain: The Choice is Ours</td>
</tr>
<tr>
<td>26</td>
<td>Acid Rain Curriculum: Grades 6-12</td>
</tr>
<tr>
<td>28</td>
<td>Acid Rain in Minnesota: A Teacher's Resource Guide</td>
</tr>
<tr>
<td>2</td>
<td>Acid Rain: Requiem or Recovery?</td>
</tr>
<tr>
<td>43</td>
<td>Acid Rain Story -- The Facts</td>
</tr>
<tr>
<td>48</td>
<td>Acid Rain: The Facts for Michigan</td>
</tr>
<tr>
<td>40</td>
<td>Acid Rain UPDATE</td>
</tr>
<tr>
<td>25</td>
<td>Activities from Middle Sea</td>
</tr>
<tr>
<td>56</td>
<td>Activities Report, International Joint Commission</td>
</tr>
<tr>
<td>56</td>
<td>Advisor</td>
</tr>
<tr>
<td>2</td>
<td>The Age of Lakes</td>
</tr>
<tr>
<td>2</td>
<td>The Age of Lakes (2nd edition)</td>
</tr>
<tr>
<td>52</td>
<td>Alternative Home Cleaners</td>
</tr>
<tr>
<td>52</td>
<td>Alternatives</td>
</tr>
<tr>
<td>55</td>
<td>D.J. Angus Research Vessel</td>
</tr>
<tr>
<td>56</td>
<td>Annual Report, Great Lakes Fishery Commission</td>
</tr>
<tr>
<td>26</td>
<td>Appreciating Your Great Lakes -- A Guide</td>
</tr>
<tr>
<td>26</td>
<td>Aquatic Activities</td>
</tr>
<tr>
<td>27</td>
<td>Aquatic Project Wild</td>
</tr>
<tr>
<td>52</td>
<td>Are Great Lakes Fish Safe to Eat?</td>
</tr>
<tr>
<td>52</td>
<td>Around the Archipelago</td>
</tr>
<tr>
<td>3</td>
<td>Basin Without Boundaries</td>
</tr>
<tr>
<td>3</td>
<td>Beach Erosions</td>
</tr>
<tr>
<td>3</td>
<td>Beach Patterns: Units One and Two</td>
</tr>
<tr>
<td>27</td>
<td>Canadian Sources of Environmental Information</td>
</tr>
<tr>
<td>40</td>
<td>Canadian Water Watch</td>
</tr>
<tr>
<td>40</td>
<td>The Chadburn</td>
</tr>
<tr>
<td>22</td>
<td>Citizen Action in Developing Clean-Up Plans</td>
</tr>
<tr>
<td>56</td>
<td>A Citizen's Agenda for Restoring Lake Ontario</td>
</tr>
<tr>
<td>22</td>
<td>A Citizen's Guide to Contaminated Sediment Clean-Up</td>
</tr>
<tr>
<td>22</td>
<td>A Citizen's Guide to the Great Lakes Water Quality Agreement</td>
</tr>
<tr>
<td>40</td>
<td>Coastal Educators News</td>
</tr>
<tr>
<td>37</td>
<td>Coastlines</td>
</tr>
<tr>
<td>40</td>
<td>Conservation Mentor</td>
</tr>
<tr>
<td>27</td>
<td>Co-operative Games for People Who Love to Play</td>
</tr>
<tr>
<td>28</td>
<td>Council Commentary</td>
</tr>
<tr>
<td>3</td>
<td>Crisis in the Rain</td>
</tr>
<tr>
<td>16</td>
<td>Cross Border Litigation</td>
</tr>
<tr>
<td>16</td>
<td>Cruising Guide to the Great Lakes</td>
</tr>
<tr>
<td>2</td>
<td>Cry of the Gull</td>
</tr>
<tr>
<td>56</td>
<td>Currents of Change</td>
</tr>
<tr>
<td>42</td>
<td>Curriculum for Grades 4-8</td>
</tr>
<tr>
<td>27</td>
<td>Debate Coaches</td>
</tr>
<tr>
<td>27</td>
<td>Decisions for the Great Lakes</td>
</tr>
<tr>
<td>48</td>
<td>Dioxin in Great Lakes Fish</td>
</tr>
<tr>
<td>28</td>
<td>Directory of Acid Rain and Air Quality Materials</td>
</tr>
<tr>
<td>9</td>
<td>Discover the G.</td>
</tr>
<tr>
<td>28</td>
<td>Disk Computer Programs</td>
</tr>
<tr>
<td>28</td>
<td>The Disposal Game</td>
</tr>
<tr>
<td>28</td>
<td>The Dotted Dragon</td>
</tr>
<tr>
<td>22</td>
<td>Drinking Water: A Community Guide</td>
</tr>
<tr>
<td>41</td>
<td>EE News</td>
</tr>
<tr>
<td>29</td>
<td>Earthwatching III: An Environmental Reader</td>
</tr>
<tr>
<td>3</td>
<td>Earth, Wind and Water</td>
</tr>
<tr>
<td>48</td>
<td>Eating Great Lakes Fish</td>
</tr>
<tr>
<td>29</td>
<td>Educator's Guide to Great Lakes Materials</td>
</tr>
<tr>
<td>16</td>
<td>The Enduring Great Lakes: A Natural History Book</td>
</tr>
</tbody>
</table>

**Format Codes:**
- AV = Audio-Visual Materials
- BK = Books
- BL = Booklets
- IM = Instructional Materials
- NL = Newsletters
- PA = Pamphlets
- PR = Periodicals, Serials, Journals
- SR = Special Report

**DIRECTORY OF GREAT LAKES EDUCATION MATERIAL**
## ALPHABETICAL TITLE INDEX

### Format Codes
- AV = Audio-Visual Materials
- BK = Books
- BL = Booklets
- IM = Instructional Materials
- NL = Newsletters
- PA = Pamphlets
- PR = Periodicals, Serials, Journals
- SR = Special Reports

<table>
<thead>
<tr>
<th>TITLE</th>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>52 Environment</td>
<td>PR</td>
</tr>
<tr>
<td>41 Environment Views</td>
<td>NL</td>
</tr>
<tr>
<td>41 Environmental Communicator</td>
<td>NL</td>
</tr>
<tr>
<td>16 Environmental Diplomacy: Transboundary Relations</td>
<td>IM</td>
</tr>
<tr>
<td>29 Environmental Education Activities Manual</td>
<td>IM</td>
</tr>
<tr>
<td>29 Environmental Issues of Lake Superior</td>
<td>AV</td>
</tr>
<tr>
<td>29 Environmental Resource Book</td>
<td>IM</td>
</tr>
<tr>
<td>29 Environmental Resource Directory</td>
<td>IM</td>
</tr>
<tr>
<td>16 Eric The Lake That Survived</td>
<td>BK</td>
</tr>
<tr>
<td>46 Fact Sheets - Great Lakes Areas of Concern</td>
<td>PA</td>
</tr>
<tr>
<td>49 Fall Beachcombing</td>
<td>IM</td>
</tr>
<tr>
<td>22 Farmland: A Community Issue</td>
<td>BL</td>
</tr>
<tr>
<td>41 Federation Highlights</td>
<td>NL</td>
</tr>
<tr>
<td>20 Field Manual for Water Quality Monitoring</td>
<td>IM</td>
</tr>
<tr>
<td>30 Fish of Lake Superior</td>
<td>IM</td>
</tr>
<tr>
<td>29 FOCUS A Special Report</td>
<td>IM</td>
</tr>
<tr>
<td>41 FOCUS on International Joint Commission Activities</td>
<td>IM</td>
</tr>
<tr>
<td>30 Food Chain Game</td>
<td>IM</td>
</tr>
<tr>
<td>52 Fresh Water</td>
<td>PR</td>
</tr>
<tr>
<td>4 The Great Clean up</td>
<td>AV</td>
</tr>
<tr>
<td>22 The Great Lake Erie</td>
<td>AV</td>
</tr>
<tr>
<td>4 The Great Lakes</td>
<td>AV</td>
</tr>
<tr>
<td>17 The Great Lakes</td>
<td>BL</td>
</tr>
<tr>
<td>30 The Great Lakes</td>
<td>IM</td>
</tr>
<tr>
<td>30 The Great Lakes Agreement Information Kit</td>
<td>IM</td>
</tr>
<tr>
<td>49 Great Lakes Brochures</td>
<td>PA</td>
</tr>
<tr>
<td>4 Great Lakes Chronology</td>
<td>AV</td>
</tr>
<tr>
<td>30 The Great Lakes: An Environmental Atlas &amp; Resource Book</td>
<td>IM</td>
</tr>
<tr>
<td>6 Great Lakes: Part 2 - Lakes Erie, Huron and Ontario</td>
<td>AV</td>
</tr>
<tr>
<td>56 The Great Lakes: A Stewardship Left Unattended</td>
<td>SR</td>
</tr>
<tr>
<td>53 The Great Lakes, A Toxic Tragedy</td>
<td>PR</td>
</tr>
<tr>
<td>17 Great Lakes Climatology Atlas</td>
<td>AV</td>
</tr>
<tr>
<td>5 The Great Lakes Connection</td>
<td>AV</td>
</tr>
<tr>
<td>17 The Great Lakes Economy: A Resource and Industry Profile</td>
<td>BL</td>
</tr>
<tr>
<td>30 The Great Lakes Education Speakers Bureau Directory</td>
<td>IM</td>
</tr>
<tr>
<td>31 Great Lakes Experts Directory</td>
<td>IM</td>
</tr>
<tr>
<td>31 A Great Lakes Fish Trade Coloring Book</td>
<td>IM</td>
</tr>
<tr>
<td>5 The Great Lakes: How They Were Formed</td>
<td>AV</td>
</tr>
<tr>
<td>31 The Great Lakes in My World</td>
<td>IM</td>
</tr>
<tr>
<td>5 The Great Lakes, No More Lunch</td>
<td>AV</td>
</tr>
<tr>
<td>5 The Great Lakes: North America's Inland Seas</td>
<td>AV</td>
</tr>
<tr>
<td>5 The Great Lakes: Only If You Care</td>
<td>AV</td>
</tr>
<tr>
<td>6 The Great Lakes: Our Joint Heritage</td>
<td>AV</td>
</tr>
<tr>
<td>35 The Great Lakes Primer</td>
<td>PA</td>
</tr>
<tr>
<td>42 Great Lakes Program</td>
<td>NL</td>
</tr>
<tr>
<td>17 The Great Lakes Region in Children's Books</td>
<td>BL</td>
</tr>
<tr>
<td>42 The Great Lakes Reporter</td>
<td>NL</td>
</tr>
<tr>
<td>17 Great Lakes Shipwrecks and Survivals</td>
<td>BK</td>
</tr>
<tr>
<td>53 The Great Lakes — A Special Report</td>
<td>PR</td>
</tr>
<tr>
<td>31 The Great Lakes: Teacher's Guide</td>
<td>IM</td>
</tr>
<tr>
<td>31 Great Lakes Toxic Hotspots</td>
<td>AV</td>
</tr>
<tr>
<td>6 The Great Lakes: Troubled Waters</td>
<td>AV</td>
</tr>
<tr>
<td>53 The Great Lakes: Troubled Waters</td>
<td>PR</td>
</tr>
<tr>
<td>42 The Great Lakes United</td>
<td>BL</td>
</tr>
<tr>
<td>23 Great Lakes Water Levels</td>
<td>BL</td>
</tr>
<tr>
<td>18 Great Stories of the Great Lakes</td>
<td>BL</td>
</tr>
<tr>
<td>4 The Greatest Lakes</td>
<td>AV</td>
</tr>
<tr>
<td>42 Greenpeace Great Lakes</td>
<td>NL</td>
</tr>
<tr>
<td>PAGE</td>
<td>TITLE</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>23</td>
<td>Groundwater: A Community Action Guide</td>
</tr>
<tr>
<td>24</td>
<td>Groundwater Notes</td>
</tr>
<tr>
<td>25</td>
<td>I Hazardous Waste from Homes</td>
</tr>
<tr>
<td>26</td>
<td>The Helm</td>
</tr>
<tr>
<td>27</td>
<td>Horizons</td>
</tr>
<tr>
<td>28</td>
<td>Hol Potato</td>
</tr>
<tr>
<td>29</td>
<td>Household Hazardous Waste Wheel</td>
</tr>
<tr>
<td>30</td>
<td>IACIIE Program and Abstracts</td>
</tr>
<tr>
<td>31</td>
<td>I The Inland Lake Demonstration Project</td>
</tr>
<tr>
<td>32</td>
<td>Inland Sea</td>
</tr>
<tr>
<td>33</td>
<td>The Inland Seas: A Journey Through the Great Lakes</td>
</tr>
<tr>
<td>34</td>
<td>Investigating the Great Lakes Environmental Legacy</td>
</tr>
<tr>
<td>35</td>
<td>Islands of Spirit</td>
</tr>
<tr>
<td>36</td>
<td>Journal of Environmental Education</td>
</tr>
<tr>
<td>37</td>
<td>Journal of Great Lakes Research</td>
</tr>
<tr>
<td>38</td>
<td>Lacustrine Lessons</td>
</tr>
<tr>
<td>39</td>
<td>The Lake at our Door's Clear as Mud: Legacy of a Glacier</td>
</tr>
<tr>
<td>40</td>
<td>Lake Erie Promise</td>
</tr>
<tr>
<td>41</td>
<td>Lake Michigan - An Issue for the '80s</td>
</tr>
<tr>
<td>42</td>
<td>Lake Michigan - Monitor</td>
</tr>
<tr>
<td>43</td>
<td>Lake Michigan Sport Fish - Should you eat your catch?</td>
</tr>
<tr>
<td>44</td>
<td>Lake Ontario Nearshore Water Quality Atlas</td>
</tr>
<tr>
<td>45</td>
<td>Lake Renewal Techniques</td>
</tr>
<tr>
<td>46</td>
<td>The Lake Superior Game</td>
</tr>
<tr>
<td>47</td>
<td>Lake Survey Charts</td>
</tr>
<tr>
<td>48</td>
<td>Lake Tides</td>
</tr>
<tr>
<td>49</td>
<td>Lake Trout Story</td>
</tr>
<tr>
<td>50</td>
<td>Lakes Letter</td>
</tr>
<tr>
<td>51</td>
<td>The Late, Great Lakes: An Environmental History</td>
</tr>
<tr>
<td>52</td>
<td>Littoral Drift</td>
</tr>
<tr>
<td>53</td>
<td>Living in Water</td>
</tr>
<tr>
<td>54</td>
<td>Living Lightly on the Planet</td>
</tr>
<tr>
<td>55</td>
<td>Living with the Lakes: Challenges and Opportunities</td>
</tr>
<tr>
<td>56</td>
<td>M.V. Macassa Bay</td>
</tr>
<tr>
<td>57</td>
<td>Managing the Great Lakes Basin as a Home</td>
</tr>
<tr>
<td>58</td>
<td>Michigan Sand Dunes, Teacher's Guide</td>
</tr>
<tr>
<td>59</td>
<td>Michigan Waste Report</td>
</tr>
<tr>
<td>60</td>
<td>More Precious Than Gold: The Story of Water in Michigan</td>
</tr>
<tr>
<td>61</td>
<td>Natural Resources Register</td>
</tr>
<tr>
<td>62</td>
<td>Network News</td>
</tr>
<tr>
<td>63</td>
<td>NIMH</td>
</tr>
<tr>
<td>64</td>
<td>The Northern Lakes and Their Inhabitants</td>
</tr>
<tr>
<td>65</td>
<td>Not Man's to Command</td>
</tr>
<tr>
<td>66</td>
<td>NWRI Digest</td>
</tr>
<tr>
<td>67</td>
<td>OEAGile (Oceanic Education Activities for Great Lakes)</td>
</tr>
<tr>
<td>68</td>
<td>OEAGLS (Oceanic Education Activities for Great Lakes)</td>
</tr>
<tr>
<td>69</td>
<td>Our Great Lakes Connection: A Curriculum Guide</td>
</tr>
<tr>
<td>70</td>
<td>Our Great Lakes Heritage</td>
</tr>
<tr>
<td>71</td>
<td>The Outdoor Classroom</td>
</tr>
<tr>
<td>72</td>
<td>Our Fragile Future</td>
</tr>
<tr>
<td>73</td>
<td>An Overview of Canadian Law and Policy</td>
</tr>
<tr>
<td>74</td>
<td>Paddle-to-the-Sea</td>
</tr>
<tr>
<td>75</td>
<td>Paddle-to-the-Sea</td>
</tr>
<tr>
<td>76</td>
<td>Paddle-to-the-Sea</td>
</tr>
<tr>
<td>77</td>
<td>Perspectives in Science</td>
</tr>
<tr>
<td>PAGE</td>
<td>TITLE</td>
</tr>
<tr>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>19</td>
<td>Perspectives on Ecosystem Management for the Great Lakes</td>
</tr>
<tr>
<td>20</td>
<td>Pesticides and Wildlife</td>
</tr>
<tr>
<td>54</td>
<td>Pesticides in America</td>
</tr>
<tr>
<td>9</td>
<td>Petals of Flower Hill</td>
</tr>
<tr>
<td>10</td>
<td>Pollution of the Great Lakes</td>
</tr>
<tr>
<td>34</td>
<td>Dr. Possibilities, Lake Heating Extravaganza</td>
</tr>
<tr>
<td>44</td>
<td>The Probe Post</td>
</tr>
<tr>
<td>10</td>
<td>Promises to Keep</td>
</tr>
<tr>
<td>57</td>
<td>Protecting Minnesota's Waters</td>
</tr>
<tr>
<td>34</td>
<td>Rain, Rain Go Away</td>
</tr>
<tr>
<td>34</td>
<td>Ranger Rick's Naturescope: Wading into Wetlands</td>
</tr>
<tr>
<td>49</td>
<td>Remedial Action Plans for Areas of Concern</td>
</tr>
<tr>
<td>57</td>
<td>Report on Great Lakes Water Quality</td>
</tr>
<tr>
<td>23</td>
<td>Revised Great Lakes Water Quality Agreements of 1978</td>
</tr>
<tr>
<td>10</td>
<td>Rise and Fall of the Great Lakes</td>
</tr>
<tr>
<td>10</td>
<td>St. Lawrence Great Lakes System</td>
</tr>
<tr>
<td>23</td>
<td>St. Lawrence River: Its Economy and Environment</td>
</tr>
<tr>
<td>10</td>
<td>St. Lawrence Stairway to the Sea</td>
</tr>
<tr>
<td>38</td>
<td>Save Our Streams</td>
</tr>
<tr>
<td>11</td>
<td>Saving the Great Lakes</td>
</tr>
<tr>
<td>35</td>
<td>The Schoolship Program</td>
</tr>
<tr>
<td>54</td>
<td>Seasons</td>
</tr>
<tr>
<td>44</td>
<td>The Seiche</td>
</tr>
<tr>
<td>35</td>
<td>SERAPHIM</td>
</tr>
<tr>
<td>38</td>
<td>Sportfishing and Aquatic Resources Education Program</td>
</tr>
<tr>
<td>57</td>
<td>State of the Great Lakes Annual Report</td>
</tr>
<tr>
<td>57</td>
<td>A Strategy for the Wise Use of Pesticides and Nutrients</td>
</tr>
<tr>
<td>49</td>
<td>Superior Pursuit: Facts about the Greatest Great Lake</td>
</tr>
<tr>
<td>11</td>
<td>Superior Today</td>
</tr>
<tr>
<td>44</td>
<td>SWIM - Safe Waters in Michigan</td>
</tr>
<tr>
<td>54</td>
<td>Taming the Great Lakes: Is It Really Necessary?</td>
</tr>
<tr>
<td>11</td>
<td>Testing the Waters</td>
</tr>
<tr>
<td>19</td>
<td>To the Last Drop</td>
</tr>
<tr>
<td>11</td>
<td>Too Thirsty to Navigate, Too Thin to Cultivate</td>
</tr>
<tr>
<td>19</td>
<td>Toxic Contamination in Large Lakes</td>
</tr>
<tr>
<td>49</td>
<td>Toxic Substances</td>
</tr>
<tr>
<td>54</td>
<td>Tracks</td>
</tr>
<tr>
<td>35</td>
<td>Treasures in Your Garbage</td>
</tr>
<tr>
<td>54</td>
<td>A Tribute to the Great Lakes</td>
</tr>
<tr>
<td>11</td>
<td>The Trouble with Toxics</td>
</tr>
<tr>
<td>45</td>
<td>Twine Line</td>
</tr>
<tr>
<td>45</td>
<td>U.S. Water News</td>
</tr>
<tr>
<td>57</td>
<td>Unfulfilled Promises</td>
</tr>
<tr>
<td>50</td>
<td>Upstream - Downstream</td>
</tr>
<tr>
<td>45</td>
<td>Upwellings</td>
</tr>
<tr>
<td>12</td>
<td>The Vital Option</td>
</tr>
<tr>
<td>35</td>
<td>Voyageur Prints</td>
</tr>
<tr>
<td>12</td>
<td>Warnings on the Wind</td>
</tr>
<tr>
<td>45</td>
<td>Waste Reduction Bulletin</td>
</tr>
<tr>
<td>36</td>
<td>Water</td>
</tr>
<tr>
<td>36</td>
<td>Water Conservation</td>
</tr>
<tr>
<td>58</td>
<td>Water for Life - The Tour of the Great Lakes</td>
</tr>
<tr>
<td>50</td>
<td>Water - here, there and everywhere</td>
</tr>
<tr>
<td>45</td>
<td>Water Impacts</td>
</tr>
<tr>
<td>58</td>
<td>Water Levels Bulletin</td>
</tr>
<tr>
<td>60</td>
<td>Water - Nature's Magician</td>
</tr>
<tr>
<td>12</td>
<td>Water-Related Teaching Activities</td>
</tr>
<tr>
<td>12</td>
<td>Water Resource Series</td>
</tr>
</tbody>
</table>

DIRECTORY OF GREAT LAKES EDUCATION MATERIAL

PAGE ix
<table>
<thead>
<tr>
<th>PAGE</th>
<th>TITLE</th>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Water: The Liquid of Life</td>
<td>-</td>
</tr>
<tr>
<td>36</td>
<td>Water Sense Wheel</td>
<td>-</td>
</tr>
<tr>
<td>36</td>
<td>Water Watch</td>
<td>-</td>
</tr>
<tr>
<td>36</td>
<td>Water Wheel</td>
<td>-</td>
</tr>
<tr>
<td>36</td>
<td>Water Wisdom</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>Water Wine</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>Water World</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>Waterwalker</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Welcome to the Wetlands</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>Wetlands Affect You and Me</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>Wetlands are Wonderlands</td>
<td>-</td>
</tr>
<tr>
<td>37</td>
<td>The World Game</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>The Wreck and Rescue of the Schooner J.H. Hartueil</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 1. AUDIO-VISUAL MATERIALS

This section includes slides, films, videotapes and cassettes.
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

Acid Rain: Requiem or Recovery?

Format: 16 mm film
Source: Minnesota Pollution Control Agency
Date: 1982
Subject: acid rain; environmental studies (produced by National Film Board of Canada)
Length: 28 min
Level: grade 7 - adult
Cost: free loan

The Aging of Lakes

Format: film
Source: The University of Michigan, Film and Video Library
Date: 1971
Subject: process of natural aging and eventual death of lakes
Length: 14 min
Level: grades 8 - 12, undergraduate, adult
Cost: $14.75 US funds

The Aging of Lakes (second edition)

Format: film or video
Source: Britannica Learning Materials
Date: 1988
Subject: lake aging process through animation and photography
Length: 15 min
Level: grades 8 - 12, undergraduate, adult
Cost: film/$630 Cdn — video/$413 Cdn plus shipping and handling U.S.
Britannica, Chicago:
film/$420 US — video/$295 US plus shipping and handling
Basin without Boundaries

Format: VHS
Source: Center for Environmental Study
Date: fall 1986
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 smaller 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: 16 mm film or VHS videotape
Source: Visual Education Centre
Date: 1983
Subject: transboundary concerns, U.S.-Canadian relations
Length: 27 min
Level: grade 7 - undergraduate
Cost: purchase: film $675 Cdn funds; videotape $350 Cdn funds
        rental: film $106 Cdn funds for three days

Cry of the Gull

Format: 16 mm film
Source: National Film Board of Canada
Date: 1977
Subject: Great Lakes pollution related to health of gulls
Length: 26 min
Level: grade 7 - undergraduate, adult/general
Cost: purchase only; for further information contact NFB library

Earth, Wind and Water

Format: VHS
Source: National Film Board of Canada
Date: 1988
Subject: four titles including: Estuary, Rise and Fall of the Great Lakes, Splash and Gulf Stream
Length: 69 min
Level: all ages
Cost: rental; for further information contact NFB library
<table>
<thead>
<tr>
<th><strong>Environmental Issues of Lake Superior</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong></td>
<td>slide/tape program</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td>Sigurd Olson Environmental Institute</td>
</tr>
<tr>
<td><strong>Date:</strong></td>
<td>1989</td>
</tr>
<tr>
<td><strong>Subject:</strong></td>
<td>environmental issues of Lake Superior</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>28 min</td>
</tr>
<tr>
<td><strong>Level:</strong></td>
<td>grades 6 - 12</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$7.50 rental fee</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Great Cleanup</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong></td>
<td>16mm film</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td>National Film Board of Canada</td>
</tr>
<tr>
<td><strong>Date:</strong></td>
<td>1976</td>
</tr>
<tr>
<td><strong>Subject:</strong></td>
<td>environmental restoration, U.S.-Canadian cooperation, Great Lakes</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>52 min</td>
</tr>
<tr>
<td><strong>Level:</strong></td>
<td>grade 10 - adult/general</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>purchase or rental, for further information contact NFB library</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Greatest Lakes</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong></td>
<td>1/2&quot; VHS videotape #11987</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td>University of Wisconsin Extension, Bureau of Audio-Visual Instruction</td>
</tr>
<tr>
<td><strong>Date:</strong></td>
<td>1984</td>
</tr>
<tr>
<td><strong>Subject:</strong></td>
<td>U.S.-Canadian relations, scientific approach to restocking sea life in freshwaters</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>30 min</td>
</tr>
<tr>
<td><strong>Level:</strong></td>
<td>grade 7 - adult</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$11 US funds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Great Lakes</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong></td>
<td>filmstrips, cassettes, guide</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td>Hawkhill Associates, Inc.</td>
</tr>
<tr>
<td><strong>Date:</strong></td>
<td>1981</td>
</tr>
<tr>
<td><strong>Subject:</strong></td>
<td>three filmstrips bring to life the geology, history and ecology of Great Lakes region</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>57 min</td>
</tr>
<tr>
<td><strong>Level:</strong></td>
<td>grades 7 - 12</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>purchase: $119; rental: $59 US funds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Great Lakes Chronology</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong></td>
<td>16 mm film</td>
</tr>
<tr>
<td><strong>Source:</strong></td>
<td>U.S. Fish and Wildlife Service</td>
</tr>
<tr>
<td><strong>Date:</strong></td>
<td>1977</td>
</tr>
<tr>
<td><strong>Subject:</strong></td>
<td>Great Lakes, history, exploitation</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>30 min</td>
</tr>
<tr>
<td><strong>Level:</strong></td>
<td>grade 10 - adult/general; available only to those in MN, MI, WI, IL, IN and OH</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>free loan, pay return postage</td>
</tr>
<tr>
<td><strong>The Great Lakes Connection</strong></td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Format:</strong> 16 mm film</td>
<td></td>
</tr>
<tr>
<td><strong>Source:</strong> U.S. Army Corps of Engineers</td>
<td></td>
</tr>
<tr>
<td><strong>Date:</strong> 1978</td>
<td></td>
</tr>
<tr>
<td><strong>Subject:</strong> Great Lakes with Sault Ste. Marie connection</td>
<td></td>
</tr>
<tr>
<td><strong>Length:</strong> 20 min</td>
<td></td>
</tr>
<tr>
<td><strong>Level:</strong> adult</td>
<td></td>
</tr>
<tr>
<td><strong>Cost:</strong> contact Public Affairs source</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Great Lakes: How They Were Formed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong> 16 mm film #00872</td>
</tr>
<tr>
<td><strong>Source:</strong> University of Wisconsin Extension, Bureau of Audio-Visual Instruction</td>
</tr>
<tr>
<td><strong>Date:</strong> 1961</td>
</tr>
<tr>
<td><strong>Subject:</strong> animation and live action to explain the Great Lakes' formation; shows how glaciers form, move and shape land surfaces</td>
</tr>
<tr>
<td><strong>Length:</strong> 11 min</td>
</tr>
<tr>
<td><strong>Level:</strong> grades 4 - 12, teacher resource</td>
</tr>
<tr>
<td><strong>Cost:</strong> $8.50 US funds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Great Lakes: No Free Lunch</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong> 3/4&quot; U-matic video, other formats available by special request</td>
</tr>
<tr>
<td><strong>Source:</strong> University of Michigan, Film and Video Library</td>
</tr>
<tr>
<td><strong>Date:</strong> 1981</td>
</tr>
<tr>
<td><strong>Subject:</strong> toxic substances, eutrophication, wetlands, erosion, dredging</td>
</tr>
<tr>
<td><strong>Length:</strong> 29 min</td>
</tr>
<tr>
<td><strong>Level:</strong> grade 10 - undergraduate, adult</td>
</tr>
<tr>
<td><strong>Cost:</strong> 23 US funds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Great Lakes: North America’s Inland Seas</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong> 16mm film or video — #3118</td>
</tr>
<tr>
<td><strong>Source:</strong> Britannica Learning Materials</td>
</tr>
<tr>
<td><strong>Date:</strong> 1971</td>
</tr>
<tr>
<td><strong>Subject:</strong> the importance of the Great Lakes to the development and economy and how they provided passage to new frontiers</td>
</tr>
<tr>
<td><strong>Length:</strong> 17 min</td>
</tr>
<tr>
<td><strong>Level:</strong> grades 6 - 12</td>
</tr>
<tr>
<td><strong>Cost:</strong> 16mm $375, video $260 US funds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The Great Lakes: Only If You Care</strong> (English version)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong> 16 mm film</td>
</tr>
<tr>
<td><strong>Source:</strong> National Film Board of Canada</td>
</tr>
<tr>
<td><strong>Date:</strong> 1980</td>
</tr>
<tr>
<td><strong>Subject:</strong> Great Lakes, pollution, control measures</td>
</tr>
<tr>
<td><strong>Length:</strong> 10 min</td>
</tr>
<tr>
<td><strong>Level:</strong> grade 6 - adult/general</td>
</tr>
<tr>
<td><strong>Cost:</strong> purchase only; for further information contact NFB library</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Les Grand Lacs, s’ils vous plaisent</strong> (French version)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Format:</strong> 16 mm film</td>
</tr>
<tr>
<td><strong>Source:</strong> National Film Board of Canada</td>
</tr>
<tr>
<td><strong>Date:</strong> 1980</td>
</tr>
<tr>
<td><strong>Subject:</strong> Great Lakes, pollution, control measures</td>
</tr>
<tr>
<td><strong>Length:</strong> 10 min</td>
</tr>
<tr>
<td><strong>Level:</strong> grade 6 - adult/general</td>
</tr>
<tr>
<td><strong>Cost:</strong> purchase only; for further information contact NFB library</td>
</tr>
</tbody>
</table>
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: 35 min each
Level: grade 7 - adult/general
Cost: loan

Great Lakes: Part 1 - Lake Michigan and Lake Superior

Format: 1/2" 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: 1/2" 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

The Great Lakes: Troubled Waters

Format: 16mm film — videocassette
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

H20erview

Format: VHS
Source: TV Ontario or Water Pollution Control Federation
Date: 1985
Subject: a look at future prospects for freshwater supply in North America
Length: 60 min
Level: grades 7 - 9
Cost: TV Ontario (see source section for cost information); Water Pollution Control Federation: $49 US funds plus $4.75 postage and handling — includes instructor's guide and 20 student guides
The Harmony Puzzle
Format: VHS
Source: Environment Canada - Alberta
Date: 1988
Subject: environmental concerns; an overview on sustainable development
Length: 15 min
Level: grades 4 - 12, teacher resource
Cost: free loan

Hot Potato
Format: VHS videotape
Source: Center for Environmental Study
Date: spring 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

The Inland Lake Demonstration Project
Format: film #7773
Source: University of Wisconsin Extension, Bureau of Audio-Visual Instruction
Date: 1971
Subject: inland lake restoration and rehabilitation
Length: 27 min
Level: adult/general
Cost: $9 rental fee (available in the US only)

Islands of Spirit
Format: VHS
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 and handling (Wisconsin residents add 5% sales tax)

The Lake at our Doors/It’s Clear as Mud/Legacy of a Glacier
Format: VHS
Source: Cleveland State University
Date: 1987
Subject: three-part series of how the lakes were formed, their geography and water testing in the lakes
Length: 120 min
Level: grade 7 - adult/general
Cost: free on loan
Lake Erie Promise

Format: VHS
Source: CFPL-TV London News
Date: 1989
Subject: overview of changes in Lake Erie over the last twenty years
Length: 47 min 16 sec
Level: grade 7 - adult/general
Cost: contact source

Lake Michigan - An Issue for the '80s

Format: slide, tape and script
Source: Schlitz Audubon Center
Date: 1980
Subject: land impacts, power plants, sewage treatment
Level: grade 10 - adult/general
Cost: postage and handling

Lake Renewal Techniques

Format: film #9473
Source: University of Wisconsin Extension, Bureau of Audio-Visual Instruction
Date: 1974
Subject: environmental rehabilitation
Length: 23 min
Level: adult/general
Cost: $7.50 rental fee

Lake Trout Story

Format: 16 mm film
Source: U.S. Fish and Wildlife Service, Film Library
Date: 1980
Subject: Fish and Wildlife Service research strategy for controlling sea lamprey
Length: 20 min
Level: grade 10 - adult
Cost: free loan, pay return postage

The Northern Lakes and Their Inhabitants

Format: slides and guide #488
Source: Educational Images Ltd.
Date: 1981
Subject: aquatic life, thermocline, waters in the Great Lakes basin
Length: 20 slides with script
Level: grades 3 - 6
Cost: $37.96 US funds plus shipping and handling

Not Man's to Command

Format: 16mm film
Source: National Film Board of Canada
Date: 1974
Subject: Great Lakes water levels related to weather
Length: 14 min
Level: adult/general
Cost: rental; for further information contact NFB library
Paddle-to-the-Sea

Format: VHS videotape or 16mm film
Source: U.S. Fish and Wildlife Service or Michigan Department of Natural Resources or National Film Board of Canada
Date: 1967
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 and handling. Note: available in MN, MI, WI, IN, IL, OH, ON

Perspectives in Science

Format: three videocassettes
Source: National Film Board of Canada
Date: 1989
Subject: video learning kit in storage case
   - three one-hour VHS videos on Toxic Waste, Water, Biotechnology
   - one introductory VHS video on “The Program in Action”
   - a comprehensive teacher's guide
   * videos also available in Beta and 3/4” formats
Length: each video one hour
Level: grades 7 - 10, teacher resource
Cost: $249 Cdn funds plus tax

Pesticides and Wildlife

Format: film
Source: U.S. Fish and Wildlife Service (produced by U.S. Navy)
Date: unknown
Subject: need for pesticide management, alternatives to pesticides, ways to use pesticides that minimize risks to fish and wildlife
Length: 30 min
Level: general
Cost: free rental, pay return postage (only available in U.S. to Great Lakes states)

Petals of Flower Hill

Format: slide/tape program
Source: Illinois Environmental Protection Agency
Date: 1965
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 #AT840306
- **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

### Promises to Keep
- **Format:** slide/tape program
- **Source:** International Joint Commission, Great Lake Regional Office
- **Date:** 1980; revised 1989
- **Subject:** toxic chemicals, pollutants, water quality and quantity, remedial action plans and environmental policy
- **Length:** 12 min
- **Level:** undergraduate, adult/general
- **Cost:** free on loan

### Rise and Fall of the Great Lakes
- **Format:** 16mm film, VHS
- **Source:** National Film Board of Canada
- **Date:** 1968
- **Subject:** Great Lakes geological evolution
- **Length:** 17 min
- **Level:** all ages
- **Cost:** National Film Board: $4 rental with five-day advance notice

### St. Lawrence/Great Lakes System
- **Format:** VHS
- **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:** purchase; for more information contact NFB library

### St. Lawrence: Stairway to the Sea (English version) / Du Grand Large aux Grand Lacs (French version)
- **Format:** 16mm film
- **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
Saving the Great Lakes

Format: 16mm film
Source: National Film Board of Canada
Date: 1976
Subject: Great Lakes rehabilitation, pollution, controls
Length: 15 min
Level: grade 7 - adult/general
Cost: purchase; for more information contact NFB library

Superior Today

Format: 1/2" or 3/4" videotape
Source: WNMU-TV, Northern Michigan University
Date: 1985
Subject: documentary explores the formation and history, climate and weather, creatures, utilization, pollution and economic development of Lake Superior
Length: 30 min
Level: grade 10 - adult/general
Cost: videotape: 1/2" video $25; 3/4" U-matic $35 US funds

Testing the Waters

Format: film
Source: Bullfrog Films
Date: 1989
Subject: a documentary about a process: charting a future for the Niagara River
Length: 57 min; three parts for classroom use
Level: grade 9 - adult
Cost: purchase $350 1/2" videocassette, $365 3/4" U-matic rental $75 US funds

Too Thick to Navigate, Too Thin to Cultivate

Format: film
Source: Michigan State University, Instructional Media Center
Subject: Great Lakes management, effects of pollution on ecosystem
Length: 26 min
Level: adult/general
Cost: rental $16.75 US funds

The Trouble with Toxics

Format: 1/2" or 3/4" videotape
Source: Michigan Sea Grant Extension, Michigan State University
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: purchase prices payable in US funds to Michigan State University: 1/2" - $35; 3/4" - $75; rental $10 for five days
**The Vital Option**

Format: VHS  
Source: National Film Board of Canada  
Date: 1979  
Subject: Great Lakes, pollution, control measures; example on how the public, industry and the government can work together to undo damage done to Great Lakes  
Length: 28 min  
Level: grades 9 - 12, teacher resource  
Cost: purchase; for more information contact NFB library

**Warnings on the Wind**

Format: VHS  
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-Related Teaching Activities**

Format: catalog on audio-visuals  
Source: ERIC Clearinghouse  
Date: 1977  
Subject: water resources and reference lists  
Length: 149 p.  
Level: grades 4 - 12, teacher resource  
Cost: $80 US funds

**Water Resource Series**

Format: three filmstrip/cassette tape sets  
Source: Michigan Book Central (produced by Michigan Natural Resources Magazine)  
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  
3) 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 $69.96 US funds

**Waterwalker**

Format: VHS and beta videocassettes  
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 CHV Communications
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 and shipping
SECTION 2. BOOKS

Most books found in this section were produced in the 1980s.
Cross Border Litigation: Environmental Rights in the Great Lakes Ecosystem

Authors: Muldoon, Paul R., Scriven, David A. and Olson, James M.
Source: Carswell Legal Publications
Date: 1986; 410 p.
Subject: Great Lakes pollution, catalog and explanation of laws, precedent-setting cases
Level: undergraduate, graduate, teacher resource
Cost: $80 Cdn funds

Cruising Guide to the Great Lakes

Author: Cahn Brazer, Marjorie
Source: Contemporary Books, Inc.
Date: 1985; 513 p.
Subject: connecting waters history
Level: grades 7 - 12
Cost: $22.95 US funds

The Enduring Great Lakes: A Natural History Book

Author: Rousmaniere, John
Source: W.W. Norton
Date: 1979; 112 p.
Subject: covers a wide variety of Great Lakes issues including algae blooms, vanishing species, toxic substances, air and water quality
Level: grades 10 - 12
Cost: $14.95 US funds
ISBN: 0-393091194-1

Environmental Diplomacy: An Examination and a Perspective of Canadian-U.S. Transboundary Environmental Relations

Author: Carroll, John
Source: University of Michigan Press and John Wiley & Sons Canada, Ltd.
Date: 1986; 352 p.
Subject: environmental policy, international cooperation, flooding, toxic substances, water and air quality
Level: undergraduate, graduate, adult/general
Cost: $24.95 US funds
ISBN: 0-472-10029-7 (U.S.)

Erie: The Lake that Survived

Author: Burns, Noel M.
Source: Rowman & Allanheld Publishers
Date: 1985; 340 p.
Subject: details the history, processes, biology and cleanup of Lake Erie
Level: undergraduate, adult
Cost: $34.95 US funds
ISBN: 0-8476-7398-7
The Great Lakes 
Author: Tovell, Walter Massey 
Source: Royal Ontario Museum 
Date: 1979 
Subject: geology, pollution 
Level: grades 6 - 10 
Cost: $2.26 Cdn funds 

Great Lakes Climatology Atlas 
Author: Sauleslea, Andrej 
Source: Department of Supply and Services Canada 
Date: 1986 
Subject: climate 
Level: grades 10 - 12 
Cost: Canada $9.95, outside Canada $11.95 plus shipping and handling (available in English and French)

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

The Great Lakes Region in Children's Books: A Selected Annotated Bibliography 
Source: Green Oak Press Publishers 
Date: 1980; 48 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 
Subject: 384-page illustrated paperback detailing Great Lakes shipwrecks; Edmund Fitzgerald edition 
Level: high school - adult 
Cost: $7.95 US funds plus $1.50 postage and handling (Wisconsin residents add 5% sales tax)
Great Stories of the Great Lakes
Author: Boyer, Dwight
Source: Dodd, Mead Publishers
Date: 1986; 272 p.
Subject: thrilling tales of tragedy, humour and heroism on the world’s greatest freshwater seas
Level: adult
Cost: $9.95 US funds

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 their region
Level: undergraduate - adult
Cost: $22.50 Cdn funds

Lake Ontario Nearshore Water Quality Atlas
Source: Ontario Ministry of the Environment
Date: 1980
Subject: water quality, map
Level: undergraduate and adult/general
Cost: free
ISBN:

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 and handling
ISBN: 0-394-55151-6

Paddle-to-the-Sea
Author: Holling, Holling C.
Source: Houghton Mifflin Company
Date: 1941
Subject: adventures of a wooden canoe; discovering the Great Lakes by canoe (also available in paperback)
Level: grades 4 - 6
Cost: $15.95 and $5.95 US funds
Perspectives on Ecosystem Management for the Great Lakes

Author: Caldwell, Lynton K., Editor
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 and $16.95 US 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 resource books, proceedings from the World Conference 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
SECTION 3. BOOKLETS

This section contains materials produced by government and non-government agencies.
Citizen Action in Developing Clean-up 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 Clean-up

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: The booklet intends to help citizens understand 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

Drinking Water: A Community Guide

Source: Concern, Inc.
Date: 1986
Subject: complex issues of water management and protection with guidelines for public participation
Level: general
Cost: $3 US funds, single copy; contact for special bulk orders

Farmland: A Community Issue

Source: Concern, Inc.
Date: 1987
Subject: farming of the environment, costs, sustainable farming practices, government programs, federal legislation, changes in policies and programs, innovative programs, guidelines for action, resources on farming issues
Level: general
Cost: $3 US funds, single copy

The Great Lake Erie

Authors: Fortner, Rosanne W. and Mayer, Victor J.
Source: Ohio Sea Grant Education Program, The Ohio State University
Date: 1987
Subject: basic information about the Great Lakes through interpretation by experts
Level: junior high - adult
Cost: $15 US funds
The Great Lakes Primer
Source: Pollution Probe Foundation
Date: 1986
Subject: includes background information on the Great Lakes and their history. Discusses the problems with toxics and effects on the environment.
Level: undergraduate, teacher resource
Cost: $6 Cdn funds

Great Lakes Water Levels
Source: Environment Canada, Great Lakes Water Levels Communications Centre - Ontario Region
Date: 1985; reprinted 1987; 1989
Subject: Great Lakes geology, hydrology, causes and effects of levels fluctuations, forecasts (booklet in either English or French)
Level: grades 7 - adult/general
Cost: free

Groundwater: A Community Action Guide
Source: Concern, Inc.
Date: 1984
Subject: availability of depletion, quality of contamination, public health considerations, detection/monitoring, federal role, state/local roles, examples of community organizing citizen action on groundwater issues
Level: general
Cost: $3 US funds, single copy; contact source for special bulk orders

Hazardous Wastes from Homes
Source: Enterprise for Education Inc.
Date: 1988
Subject: booklet on what kinds of wastes are hazardous and what to do with common household wastes
Level: grades 7 - 12, teacher resource
Cost: $2.75 US funds plus $1.50 postage and handling

Revised Great Lakes Water Quality Agreement of 1978 as Amended by Protocol signed November 19, 1987
Source: International Joint Commission, Great Lakes Regional Office
Date: 1987
Subject: United States/Canadian policy, water quality, environmental policy and law (printed in either English or French)
Level: undergraduate, adult/general, teacher resource
Cost: free

The St. Lawrence River: Its Economy and Environment
(English version)
Le Fleuve St. Laurent: Son Economie et son Environnement
(French version)
Source: The Centre for the Great Lakes
Date: 1989; 40 p. (available in English and French)
Subject: 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 soft-cover book, two colors, photos, map, glossary of terms and references
SECTION 4. INSTRUCTIONAL

Classroom activities, computer programs, kits and reference directories are contained in this section.
Acid Rain Curriculum, Grades 6-12
Source: Acid Rain Foundation
Date: 1988
Level: grades 6 - 12
Cost: $19.95 for each packet plus $2 postage and handling or $59.95 for the set of six $4 postage and handling (US funds)

Acid Rain in Minnesota: A Teacher's Resource Guide
Source: Acid Rain Foundation
Date: 1986
Subject: acid rain; accompanies “Acid Rain in Minnesota,” 1985 film
Emphasis: mixed - economics, literature, political and environmental studies, drama
Level: grades 4 - 8
Cost: $9.95 US funds plus $2.50 postage and handling (Minnesota residents add applicable tax)

Activities from Middle Sea (EP-71)
Source: Ohio Sea Grant Education Program
Date: 1986; 20 p.
Subject: Compilation of short classroom activities from past issues of Middle Sea newsletter.
Level: grades 5 - 9
Cost: $2.50 US funds plus tax for Ohio residents - make checks payable to ‘The Ohio State University’

D.J. Angus - Research Vessel
Source: Grand Valley State University
Emphasis: educational program on board a 45-foot research vessel designed for educational activities with group sizes of up to 20 participants
Subject: aquatic science program, Great Lakes ecology
Level: all ages; K - 12, citizen groups, teacher workshops
Cost: no charge; 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: compilation of resources and activity suggestions for teaching young people about the Great Lakes through natural resources, history and ecology
Level: grades 6 - 12, teacher resource
Cost: $4 US funds: 10% discount on orders of 10 - 49; 20% discount on orders of 50 or more

Aquatic Activities
Source: New York Sea Grant Extension
Date: 1980
Subject: twelve different water-related activities
Level: grades 6 - 8
Cost: $3 US funds
Aquatic Project Wild

Source: Project Wild
Date: 1988
Subject: explores the world of water and aquatic habitats; aquatic education activity guide
Level: grades K - 12
Cost: free — only available by attending a Project Wild workshop

Canadian Sources of Environmental Information

Source: Canadian Government Publishing Centre
Date: 1988; biennially
Subject: sources in government, industry, universities and the public sector
Level: graduate - adult
Cost: $39.75 Cdn funds
ISBN: 0-660-54646-9; ISSN 0832-9176

Co-operative Games for People Who Love to Play

Source: Public Focus
Date: 1989
Subject: 175 pages of more than 100 indoor and outdoor games not necessarily Great Lakes
Level: all ages
Cost: $12.95 Cdn funds each plus 10% of the cost for postage/handling for single copies; $12.25 each plus 10% for 2-9 copies; and $11.50 each plus 10% for 10-99 copies

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 and handling (Minnesota residents add sales tax)

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 and handling

Decisions for the Great Lakes

Source: Great Lakes Tomorrow
Date: 1982 (in revision)
Subject: Great Lakes history and facts, ecosystem management, law, politics, pollution, public participation, water quality
Level: grades 7 - 12
Cost: contact source for information
Directory of Acid Rain and Air Quality Materials  
National Park Service, Midwest Regional Office  
1988  
contains sources for curriculum supplements, audiovisual aids, information materials  
grades K - undergraduate, general  
free  

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

Disk Computer Programs (EP-74)  
Ohio Sea Grant Education Program - Ohio State University  
1987  
Apple II computer programs with instructions for nine marine-related activities, some accompany OEAGLS activities  
marine education  
grades 5 - 9  
$5 US funds plus tax for Ohio residents  

The Disposal Game  
Ontario Waste Management Corporation  
1984  
20-30 minute board game for 2-4 players on environmental studies  
grade 7 - adult/general  
free  

The Dotted Dragon  
Kim Etherington  
Public Focus  
1979; reprinted 1981, 1985  
24-page story/colouring book about the Great Lakes; introduction to pollution  
pre-school - grade 3  
Cdn funds: $1.95 each plus .75 (postage/handling) per single book; $1.50 each plus 1.25 postage/handling for 2-9 copies; $1.25 each plus 2.25 postage/handling for 10-19 copies; and $1.25 plus 10% of the order total (postage/handling) for 20-99 copies
Earthwatching III: An Environmental Reader

Source: Sea Grant Institute and the Institute for Environmental Studies, University of Wisconsin-Madison
Date: 1989; 144 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 topics from the atmosphere, the biosphere, the land, the world of water, energy, environmental quality, health and nutrition, people and society, and around the globe
Level: grades 4 - 12
Cost: $5 US funds including postage and handling

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 and handling

Environmental Education Activities Manual

Source: Stapp, William B. and Cox, Dorothy A.
Date: 1981
Subject: environmental education, water quality, general action-oriented activities
Level: teacher resource
Cost: contact source

Environmental Resource Book

Source: Ontario Environment Network
Date: 1989; annual directory
Subject: Ontario's environmental groups and their resources, listed in alphabetical order
Level: senior public school, high school, teacher resource
Cost: from $6-$25 Cdn funds, plus $1.50 shipping and handling

Environmental Resource Directory

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

Field Manual for Water Quality Monitoring

Source: Mitchell, Mark K. and Stapp, William B.
Date: 1988
Subject: interactive water quality project
Emphasis: biology, ecology, earth science and chemistry
Level: grade 7 - adult/general, teacher resource
Cost: $8.95 US funds — discounts available for orders over ten
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Source</th>
<th>Date</th>
<th>Subject</th>
<th>Level</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish of Lake Superior</td>
<td>Downs, Warren</td>
<td>Apostle Islands National Lakeshore</td>
<td>1984</td>
<td>illustrated text on the fish of the northernmost of the Great Lakes</td>
<td>general</td>
<td>$0.50 each plus $1.50 postage and handling (Wisconsin residents add 5% sales tax)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food Chain Game</td>
<td></td>
<td>Minnesota Sea Grant Extension Service, University of Minnesota</td>
<td>November/December 1980</td>
<td>food chains, not specifically on the Great Lakes</td>
<td>grades 3 - 6</td>
<td>single copies: free</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Great Lakes</td>
<td></td>
<td>Harbor House Publishers</td>
<td>1987</td>
<td>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</td>
<td>preschool - grade 4</td>
<td>$1.95 US funds</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Lakes Agreement Information Kit</td>
<td></td>
<td>International Joint Commission, Great Lakes Regional Office</td>
<td>1987</td>
<td>kit includes pamphlets on toxic substances, land use activities, bibliography of Great Lakes reports, remedial action plans information, Great Lakes Water Quality Agreement</td>
<td>all ages</td>
<td>free</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Great Lakes: An Environmental Atlas and Resource Book</td>
<td>Environment Canada - Great Lakes Environment Program and U.S. Environmental Protection Agency, Office of Public Affairs</td>
<td>1987</td>
<td>44 pages of history of Great Lakes, maps, fact sheets — colourful references explaining Great Lakes history, physical characteristics, effects of human activities on the lakes</td>
<td>grades 7 - 12, graduate, teacher resource</td>
<td>free of charge; limited supply available</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Great Lakes Education Speakers Bureau Directory</td>
<td>Great Lakes Commission</td>
<td>1989</td>
<td>data on nearly 400 experts from throughout the Great Lakes region available to visit classrooms and educate students on subjects including water quality, fisheries, geology, waste management, recreation, history and many more</td>
<td>teacher, educator resource</td>
<td>$5 US funds; $7 Cdn funds</td>
<td></td>
</tr>
</tbody>
</table>
Great Lakes Experts Directory
Source: Michigan State University, Institute of Water Research
Date: 1983
Subject: 67-page directory of over 300 authorities on the Great Lakes. Titles, names, addresses and phone numbers are included to identify expertise in governments, universities, private interest personnel and others.
Level: adult/general, graduate students
Cost: $5 US funds includes postage and handling

A Great Lakes Fur Trade Coloring Book
Author: Kozlak, Chet
Source: Apostle Islands National Lakeshore
Date: 1981
Subject: fur trade history, with French translation
Level: preschool - grade 3
Cost: $2.50 US funds plus $1.50 postage and handling (Wisconsin residents add 5% sales tax)

The Great Lakes in My World
Source: Lake Michigan Federation
Date: 1989
Subject: materials for educating students on the Great Lakes ecosystem
Level: K - 8
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 easily 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 and handling

Great Lakes Toxic Hotspots
Source: Pollution Probe Foundation
Date: 1985
Subject: five-colour 21" x 34" poster showing toxic areas around the Great Lakes; 343 hotspots
Emphasis: environmental quality
Level: all ages
Cost: $8 Cdn funds

Household Hazardous Waste Wheel
Source: Environmental Hazards Management Institute
Subject: informational device on hazardous household products and alternatives
Level: general
Cost: $2.75 each US funds for up to nine wheels; $2.25 each for 10-99, $1.95 for 100-499, plus postage and handling
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 and handling) order #MICHU-SG-83-400

The Lake Superior Game

Producer: Barbara Liukkonen
Source: Minnesota Sea Grant Extension Service, University of Minnesota
Date: 1989; 14 p.
Subject: game; map and watershed of Lake Superior
Level: grades 5 - 8
Cost: free

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 and handling (Wisconsin residents add 5% sales tax)

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 characters 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 and 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 and handling

M.V. Macassa Bay

Source: E.K. Tour Boat Service Ltd.
Subject: school/staff functions on sightseeing cruise on 93-foot ship for groups of up to 200
Emphasis: water resources of the Great Lakes region
Level: all ages
Cost: call for schedule and rates; operating season May - October
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 (made to accompany film “Sand Dunes” from Michigan Department of Natural Resources)
Level: grades 4 - 6
Cost: free

NIMBI (Now I Must Become Involved)
Source: Educational Hazards Team
Emphasis: educational activities on a 40-foot research tug designed for educational activities with group sizes of up to 15 participants
Subject: floating on the Great Lakes and testing the water quality
Level: elementary - high school
Cost: no charge; operating season March - September

OEAGLS (Oceanic Education Activities for Great Lakes)
Source: Ohio Sea Grant Education Program, Ohio State University
Subject: Lake Erie, interdisciplinary approach to the world’s oceans
Note: lessons include background information, activities, worksheets, games.
Teacher’s guide available to accompany each lesson. 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)

OEAGLents (Oceanic Education Activities for Great Lakes) - early elementary grades
Source: Ohio Sea Grant Education Program
Subject: three separate lessons: Lake Erie, Take a Bowl (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 US funds each 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 Resource Center
Date: 1986; (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

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
### The Outdoor Classroom

<table>
<thead>
<tr>
<th>Source</th>
<th>Indiana Department of Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>various outdoor educational activities, including two modules on water resources; teacher's guide, not Great Lakes specific</td>
</tr>
<tr>
<td>Emphasis</td>
<td>science, social studies</td>
</tr>
<tr>
<td>Level</td>
<td>grades K - 6</td>
</tr>
<tr>
<td>Cost</td>
<td>free</td>
</tr>
</tbody>
</table>

**Paddle-to-the-Sea: Supplemental Curriculum Activities for use with Holling Clancy Holling's book**

<table>
<thead>
<tr>
<th>Source</th>
<th>Ohio Sea Grant Education Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>1988</td>
</tr>
<tr>
<td>Subject</td>
<td>biology, ecology, geography, physical sciences, social studies, languages and math</td>
</tr>
<tr>
<td>Emphasis</td>
<td>environmental studies (includes 24&quot; x 36&quot; map of the Great Lakes)</td>
</tr>
<tr>
<td>Level</td>
<td>grades 3 - 6</td>
</tr>
<tr>
<td>Cost</td>
<td>$10 US funds (make checks payable to The Ohio State University)</td>
</tr>
</tbody>
</table>

**Dr. Possibilities, Lake Healing Extravaganza**

<table>
<thead>
<tr>
<th>Source</th>
<th>Portable Theatre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>live participatory musical adaptable to water quality topics</td>
</tr>
<tr>
<td>Notes</td>
<td>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.</td>
</tr>
<tr>
<td>Level</td>
<td>grades 4 and up</td>
</tr>
<tr>
<td>Cost</td>
<td>ranges from $400 and up (Cdn funds)</td>
</tr>
</tbody>
</table>

**Rain, Rain Go Away**

<table>
<thead>
<tr>
<th>Source</th>
<th>Public Focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>1979; reprinted 1981, 1986</td>
</tr>
<tr>
<td>Subject</td>
<td>24-page colouring/activity book about acid rain</td>
</tr>
<tr>
<td>Level</td>
<td>preschool - grade 3</td>
</tr>
<tr>
<td>Cost</td>
<td>Cdn funds: $1.95 each plus .75 (postage/handling) per single book; $1.50 each plus 1.25 (postage/handling) for 2-9 copies; $1.25 each plus 2.25 (postage/handling) for 10-19 copies; and $1.25 plus 10% of the order total (postage/handling) for 20-99 copies</td>
</tr>
</tbody>
</table>

**Ranger Rick's Naturescope: Wading into Wetlands**

<table>
<thead>
<tr>
<th>Source</th>
<th>National Wildlife Federation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>1989</td>
</tr>
<tr>
<td>Subject</td>
<td>importance of wetlands; informational pages, student activities, teacher's guide</td>
</tr>
<tr>
<td>Emphasis</td>
<td>science, environmental studies</td>
</tr>
<tr>
<td>Level</td>
<td>teacher/educator resource</td>
</tr>
<tr>
<td>Cost</td>
<td>$6 US funds each plus $3.50 postage and handling (postage and handling charges same for any amount ordered)</td>
</tr>
</tbody>
</table>
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 100-foot schooners — "Malabar" and "Madeline"; a sailing classroom on Grand Traverse Bay, Michigan. Students collect and examine plankton, fish, and bottom sediments and experience the heritage of the Great Lakes
Level: grades 6 - 10
Cost: $10/person US funds—group size 35 maximum

SERAPHIM
Source: University of Wisconsin Sea Grant, Communications Office
Date: 1984 - present
Emphasis: Software for Apple Computers
Titles: Sulfuric Acid; WAQUAL (water quality); Lake Study; Pond Study; Mineral Resources
Level: grade 6 - adult/general
Cost: $5/disc US funds

Sportsfishing and Aquatic Resources Education Program - Leader Manual
Source: 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 for information

Treasures in Your Garbage
Author: Toni Ellis
Source: Is Five Press
Date: 1986
Subject: 24-page activity book on recycling
Level: pre-school - grade 3
Cost: Cdn funds - single copy: $2.95; bulk rates: 25-99 $2.51; 100-199 $2.34 plus postage and handling
ISBN: 0-920934-26-9

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 (36" x 24")
3) Canoe Proceeding Along High Rocky Cliffs (28" x 18")
Level: all ages
Cost: $6 US funds each plus $1.50 postage and handling (Wisconsin residents add 5% sales tax)
Water

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

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: 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: free

Water Sense Wheel

Source: Environmental Hazards Management Institute
Subject: potential toxic and non-toxic contaminants information device; safe drinking water
Level: general
Cost: $2.75 US funds each for up to nine wheels; $2.25 each for 10-99, $1.95 for 100-499, plus postage and handling

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

Water Wheel

Subject: water conservation informational device; water use and conservation
Level: general
Cost: $1 US funds each plus postage and handling for quantities up to 260

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
**Water Wise**

Source: Department of Natural Resources - Cornell University  
Date: 1989; 87 p.  
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 and handling

**Water World**

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

**Welcome to the Wetlands**

Source: U.S. Environmental Protection Agency, Region V, Water Division  
Date: 1988  
Subject: fold-out poster on how wetlands can help  
Level: grades 3 - 5, teacher resource  
Cost: free

**Wetlands Affect You and Me: Leader/Teacher Guide**

Source: Michigan Sea Grant Extension, Cooperative Extension Service  
Date: 1979  
Subject: activities prepared to teach members/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: $.70; 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: 1983  
Subject: science, key wetland concepts; value to humanity, helping youth understand current and future uses of wetlands  
Level: youth/adult, teacher resource  
Cost: first copy is free; additional copies $1 US funds

**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 $3500 US funds (includes two traveling workshop staff, shipping of the giant map, props, and other materials)
SECTION 5. NEWSLETTERS

This section contains the titles of newsletters that deal with the Great Lakes basin as a whole or in part, either occasionally or entirely.
Acid Rain UPDATE

Source: Acid Rain Foundation
Date: occasional
Subject: curriculum, books, newsletter, slides, tapes, occasional Great Lakes materials, resource list
Level: teacher resource
Cost: send self-addressed envelope for price list

Advisor

Source: Great Lakes Commission
Date: monthly
Subject: conservation of the water resources 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 ($185 Cdn outside Canada)

The Chadbump

Source: Great Lakes Historical Society
Date: quarterly four-page newsletter
Subject: Great Lakes, history
Level: undergraduate and teacher resource
Cost: included with $20 membership

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

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 & water conservation
Level: adult/general
Cost: free
<table>
<thead>
<tr>
<th>Source:</th>
<th>Council of Great Lakes Governors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>monthly</td>
</tr>
<tr>
<td>Subject:</td>
<td>activities of the Council of Great Lakes Governors; public policy issues to six states: IL, IN, MI, MN, OH, WI</td>
</tr>
<tr>
<td>Level:</td>
<td>adult/general</td>
</tr>
<tr>
<td>Cost:</td>
<td>free</td>
</tr>
</tbody>
</table>

**EE News**

<table>
<thead>
<tr>
<th>Source:</th>
<th>Wisconsin Department of Natural Resources, Bureau of Information and Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>quarterly</td>
</tr>
<tr>
<td>Subject:</td>
<td>12 pages of information for Wisconsin educators on environmental topics, issues, news items and listing for resource materials</td>
</tr>
<tr>
<td>Level:</td>
<td>teacher resource</td>
</tr>
<tr>
<td>Cost:</td>
<td>free</td>
</tr>
</tbody>
</table>

**Environment Views**

<table>
<thead>
<tr>
<th>Source:</th>
<th>Alberta Environment Communications Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>quarterly</td>
</tr>
<tr>
<td>Subject:</td>
<td>classroom curriculum, specific topic from various viewpoints with the aim of increasing awareness of environmental issues; recycling, hazardous wastes, agriculture, energy (applicable to Great Lakes education)</td>
</tr>
<tr>
<td>Level:</td>
<td>grade 7 - adult, teacher resource</td>
</tr>
<tr>
<td>Cost:</td>
<td>free</td>
</tr>
</tbody>
</table>

**Environmental Communicator**

<table>
<thead>
<tr>
<th>Source:</th>
<th>North American Association for Environmental Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>bimonthly</td>
</tr>
<tr>
<td>Subject:</td>
<td>not Great Lakes specific</td>
</tr>
<tr>
<td>Level:</td>
<td>teacher resource</td>
</tr>
<tr>
<td>Cost:</td>
<td>included with membership fees $35 US funds or $20 for non-members</td>
</tr>
</tbody>
</table>

**Federation Highlights**

<table>
<thead>
<tr>
<th>Source:</th>
<th>Water Pollution Control Federation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>monthly</td>
</tr>
<tr>
<td>Subject:</td>
<td>water pollution highlights, current issues on water and wastewater treatment, management and disposal</td>
</tr>
<tr>
<td>Level:</td>
<td>adult/general</td>
</tr>
<tr>
<td>Cost:</td>
<td>subscription rates</td>
</tr>
</tbody>
</table>

**FOCUS on International Joint Commission Activities**

<table>
<thead>
<tr>
<th>Source:</th>
<th>International Joint Commission, Great Lakes Regional Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>three issues per year: March, July, November</td>
</tr>
<tr>
<td>Subject:</td>
<td>water, pollution, hazardous substances, IJC, environmental quality, Great Lakes focus, U.S.-Canadian institutional arrangements</td>
</tr>
<tr>
<td>Level:</td>
<td>grade 9 - adult/general, teacher resource</td>
</tr>
<tr>
<td>Cost:</td>
<td>free</td>
</tr>
</tbody>
</table>
Great Lakes Program
Source: Great Lakes Program Office - Buffalo
Date: bimonthly
Subject: focus for serving the public on Great Lakes interests at SUNY at 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
Level: adult/general
Cost: available with membership

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

The Helm: Happenings and Educational Activities Around Lake Michigan
Source: Illinois-Indiana Sea Grant Program, University of Illinois
Date: quarterly
Subject: coastal issues, events and educational activities in the southern area of Lake Michigan
Level: grade 7 - adult/general, teacher resource
Cost: free
Horizons
Source: Sigurd Olson Environmental Institute
Date: quarterly
Subject: western Lake Superior conservation issues, including Great Lakes
Level: general
Cost: available with membership subscription $15 US funds

Inland Seas
Source: Great Lakes Historical Society
Date: quarterly
Subject: Great Lakes history
Level: undergraduate, teacher resource
Cost: $20 membership (includes journal and newsletter)

Lacustrine Lessons
Source: Minnesota Sea Grant Extension Service - Duluth
Date: published through August 1988: back issues are available
Subject: activities on environmental issues
Level: teacher resource
Cost: free

Lake Michigan Monitor
Source: Lake Michigan Federation
Date: quarterly
Subject: lakewide efforts to protect Lake Michigan; lake clean-up, 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: eight pages of information on lake sciences, management and how-to information
Level: teacher resource
Cost: free

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

Littoral Drift
Source: University of Wisconsin Sea Grant College Program
Date: monthly
Subject: two-page newsletter on environmental issues, a list of journal reprints and events
Level: teacher resource
Cost: free
Michigan Waste Report
Source: Waste Systems Institute
Date: biweekly
Subject: waste management, toxics and pollution control issues in Michigan
Level: adult
Cost: free

Natural Resources Register
Source: Michigan Department of Natural Resources
Date: quarterly
Subject: water quality and water management; articles and news stories of department programs
Level: adult/general, teacher resource
Cost: free (presently located in Michigan school libraries)

Network News
Source: Ontario Environment Network
Date: quarterly
Subject: aims to facilitate communication and cooperation among environmental groups in Ontario, in order to contribute to the enhancement and protection of the environment
Level: adult/general, teacher resource
Cost: yearly subscription

NWRI Digest
Source: National Water Research Institute
Date: 1988; quarterly
Subject: current research results, aquatic sciences; scientific understanding of water issues
Level: adult/general, teacher resource
Cost: free

The Probe Post
Source: Pollution Probe Foundation
Date: quarterly
Subject: energy, environmental issues, not Great Lakes specific
Level: grade 7 - adult/general, teacher resource
Cost: $15 Cdn funds

The Seiche
Source: Minnesota Sea Grant Extension Program, University of Minnesota
Date: five yearly issues
Subject: marine resources, coastal utilization, marine environmental research, water safety, Great Lakes
Level: undergraduate, adult/general, teacher resource
Cost: free

SWIM — Safe Waters in Michigan
Source: Lake Michigan Federation
Date: quarterly
Subject: restoring water quality; ecology, human health and economics
Level: high school, adult
Cost: contribution
Twine Line
Source: Ohio Sea Grant College Program, Ohio State University
Date: bimonthly
Subject: aquatic resources, fishing
Level: adult/general
Cost: $4.50 per year US funds

Upwellings
Source: Michigan Sea Grant College Program, Publications Office
Date: quarterly
Subject: pollution, Great Lakes environmental quality
Level: adult/general
Cost: free subscription

U.S. Water News
Source: U.S. Water News, Inc. and the 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

The Waste Reduction Bulletin
Source: Ontario Waste Management Corporation
Date: three times a year
Subject: directed to industries in the province that generate hazardous wastes
Cost: free

Water Impacts
Source: Michigan State University, Institute of Water Research
Date: monthly
Subject: water resources research and education
Level: adult/general, teacher resource
Cost: free
SECTION 6. PAMPHLETS

This section contains a selected number of pamphlets available from various government and private environmental agencies. For further information, see the Sources section.
<table>
<thead>
<tr>
<th>Source</th>
<th>Date</th>
<th>Subject</th>
<th>Emphasis</th>
<th>Level</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid Rain Story — The Facts</td>
<td>Atmospheric Environment Services</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>Source:</td>
<td>1988</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acid Rain: The Facts for Michigan</td>
<td>Michigan United Conservation Clubs</td>
<td>data on acid rain in Michigan</td>
<td>ecology, science</td>
<td>grade 7 - undergraduate</td>
<td>free</td>
</tr>
<tr>
<td>Source:</td>
<td>1985</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alternative Home Cleaners</td>
<td>Pollution Probe Foundation</td>
<td>recipes for environmentally-sound cleaners</td>
<td>home economics, science</td>
<td>general</td>
<td>free</td>
</tr>
<tr>
<td>Source:</td>
<td>1988</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dioxin in Great Lakes Fish</td>
<td>U.S. Environmental Protection Agency, Great Lakes National Program Office</td>
<td>carp and trout fillet samples analyzed around the Great Lakes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eating Great Lakes Fish</td>
<td>Michigan Sea Grant Extension, Cooperative Extension Service, Michigan State University</td>
<td>background information on contaminants in Great Lakes sport fish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source:</td>
<td>1987; Extension Bulletin E-2028</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fact Sheets — Great Lakes Areas of Concern</td>
<td>The Center for the Great Lakes</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>Source:</td>
<td>1988/89, continuously updated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Fall Beachcombing
Source: Michigan Sea Grant College Program, University of Michigan
Date: 1978, reprinted 1986
Subject: eight-page flyer on Michigan shores: discusses beach sands, rocks, plants/plant communities, wildlife; also includes list of related books and field guides
Level: grade 4 - adult
Cost: free

Great Lakes Brochures
Source: Michigan Sea Grant Extension, Cooperative Extension Service
Date: 1986; (new edition expected in January 1990)
Subject: six fact sheets and map: 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).
Level: grade 4 - adult, teacher resource
Cost: $1.50 for set; $.25 each US funds

The IJC, What It Is, How It Works
Source: International Joint Commission - Great Lakes Regional Office
Date: 1988
Subject: pamphlet on the role of the IJC and the Great Lakes Water Quality Agreement
Level: general
Cost: free

Lake Michigan Sport Fish — Should you eat your catch?
Source: National Wildlife Federation - Great Lakes Office
Date: 1989
Subject: information about the extent of contamination in Lake Michigan and fish consumption guidelines
Level: general
Cost: free

Remedial Action Plans for Areas of Concern
Source: International Joint Commission, Great Lakes Regional Office
Date: 1989
Subject: water quality, Great Lakes basin, public concern
Level: undergraduate, graduate and adult/general
Cost: free

Superior Pursuit: Facts about the Greatest Great Lake
Source: Minnesota Sea Grant Extension Program - Duluth
Date: 1985; revised 1989
Subject: fact sheet about Lake Superior: geology, water quality and fish
Level: grades 4 - 12, teacher resource
Cost: free

Toxic Substances
Source: International Joint Commission, Great Lakes Regional Office
Date: 1980; presently in revision
Subject: poisonous or toxic substances found in the Great Lakes basin
Level: grades 5 - 12, teacher resource
Cost: free
Sanrre:

Dek

D3ubj.a:

Level:

Cast:

source:

Date:

Subject:

Level:

Cost:

Upstream - Downstream

Wisconsin Department of Natural Resources

1977

stream ecology, water quality, introductory biology

grades 7 - 9

contact source for information

Water — here, there and everywhere

Environment Canada - Inland Waters Directorate, Ottawa

1989

world’s water system; fact sheet #2 (6 pages), available in English and French

grades 4 - 12, teacher resource

free

Water — Nature’s Magician

Environment Canada - Inland Waters Directorate, Ottawa

1989

water as a liquid, a solid or a gas — hydrologic cycle; fact sheet #1 (4 pages)

available in English and French

grades 4 - 12, teacher resource

free
SECTION 7.
PERIODICALS, SERIALS, JOURNALS

This section contains periodicals, journals and serial publications that are useful to instructors of Great Lakes material.
Alternatives
Source: University of Waterloo
Date: quarterly
Subject: Spring 1986 issue — excellent resource on Great Lakes
(out of print) obtainable from your local library; upcoming fall issue on water
and sustainable development [17:2]
Level: undergraduate, graduate, teacher resource
Cost: in Canada: $17.50 (Cdn funds) individual, $35 (Cdn funds) institutions; outside
Canada: $22.50 (Cdn funds) individual, $45 (Cdn funds) institutions

Are Great Lakes Fish Safe to Eat?
Author: Schmidt, Wayne A.
Date: August/September 1989
Subject: scientists who warn against regularly eating certain species
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

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

FreshWater
Source: Marine Museum of the Great Lakes at Kingston
Date: summer 1988
Subject: a journal of Great Lakes marine history
Level: high school
Cost: $4.50 Cdn funds
ISSN: 0834-4302
The Great Lakes — A Special Report
Author: Hansen, Paul
Source: Outdoor America [53(2):12-16]
Date: summer 1988
Subject: history, toxic materials, programmes
Level: high school
Cost: $1.50 per issue

The Great Lakes, A Toxic Tragedy
Source: The Milwaukee Journal newspaper supplement
Date: November 1988
Subject: 16 pages of articles on toxiсs in the Great Lakes
Level: undergraduate - adult
Cost: contact newspaper for shipping charges

The Great Lakes - Troubled Waters
Source: National Geographic, [172(1):2-31]
Subject: high water levels and water quality
Date: July 1987
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

Managing the Great Lakes Basin as a Home
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 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 Quality Management

Source: 1986
Subject: diversions and consumptive use
Level: graduate, teacher resource
Cost: contact source

Pesticides in America

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

Seasons

Source: Federation of Ontario Naturalists
Date: Autumn 1987 issue
Subject: special on the Great Lakes, conservation, acid rain, endangered species
Level: grade 5 - adult/general, teacher resource
Cost: subscription from $16 Cdn funds per year; special issue $3

Taming the Great Lakes: Is It Really Necessary?

Author: Gorrie, Peter
Date: 1988
Subject: lake levels
Level: adult, teacher resource
Cost: $3.50/issue; 10-100 copies $2.75/issue (Cdn funds) plus shipping

Tracks

Source: Michigan United Conservation Clubs
Date: May 1986; Volume 10, issue 9
Subject: “Swim into Summer” issue contains articles on the Great Lakes, aquatic wildlife, shoreline protection, fish habitats
Level: upper elementary grades
Cost: $1.60 US funds

A Tribute to the Great Lakes

Source: Michigan Natural Resource Magazine
Date: May/June 1986
Subject: sketches and articles about the history, policy, fisheries, water quality, and future of each lake
Level: undergraduate - adult
Cost: upon request
SECTION 8. SPECIAL REPORTS

This section contains special reports from various Great Lakes agencies and organizations.
Activities Report, International Joint Commission
Source: International Joint Commission, Great Lakes Regional Office
Date: biennially
Subject: describes the Commission and its activities along the entire length of the Canadian/United States border, including the Great Lakes (printed in English and French)
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

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, Ottawa
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

IAGLR Program and Abstracts - Annual Conference
Source: International Association of Great Lakes Research
Date: 1989
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 - Ottawa or Washington
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

Protecting Minnesota's Waters: Priorities for the 1989-1991 Biennium
Source: Minnesota State Planning Agency
Date: 1989; 14p.
Subject: protecting Minnesota's inland lakes, groundwater and Lake Superior
Levels: general audience
Cost: free

Report on Great Lakes Water Quality, Great Lakes Water Quality Board
Source: International Joint Commission, Great Lakes Regional Office
Date: annually and/or biennially since 1973
Subject: hazardous substances, law, legislation, Great Lakes region (printed in English and French)
Level: undergraduate, graduate, adult/general and teacher resource
Cost: free

State of the Great Lakes Annual Report
Source: The Office of the Great Lakes, Michigan Department of Natural Resources
Date: 1989
Subject: highlights of cleanup plans for Great Lakes pollution; progress made in implementation of regional agreements to control toxics pollution and emergency response to spills
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

Unfulfilled Promises: A Citizens' Review of the International Great Lakes Water Quality Agreement
Source: Great Lakes United
Date: February 1987; 96 p.
Subject: 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

Water Levels Bulletin
Source: Fisheries and Oceans Canada, Communications Department
Date: monthly
Subject: levels, stream measurements, Great Lakes levels
Level: undergraduate, graduate and teacher resource
Cost: free
SECTION 9. SOURCES

This section contains a list of selected sources of material. These sources produce or collect bodies of information too numerous to list individually, although some important publications may be found listed specifically in other sections.
Acid Rain Foundation, Inc.
1410 Varsity Drive
Raleigh, NC 27606 (919)829-9443

Alberta Environment, Communications Branch
Oxbridge Place, 9820 106 Street
Edmonton, AB T5K 9Z9 (403)427-6310
Note: newsletter (applicable to Great Lakes)

Apostle Islands National Lakeshore
Chief of Interpretation
National Park Service
Route 1, Box 4
Bayfield, WI 54814 (715)779-3397
Note: Lake Superior Bibliography

Aquatic Project Wild
in United States contact:
Box 18060
Boulder, CO 80308-8060 (303)444-2390
or
in Canada contact:
Canadian Wildlife Federation
1673 Carling Avenue
Ottawa, ON T5K 2G6 (613)997-1095

Atmospheric Environment Services
4905 Dufferin Street
Downsview, ON M3H 5T4 (416)739-4759
Note: occasional Great Lakes material

Bowling Green State University
Institute for Great Lakes Research
12764 Levis Parkway
Perrysburg, OH 43551 (419)372-2531
Note: focus on ports, shipping, has all Army Corps of Engineers reports

Brauer Productions
402 Cass Street
Traverse City, MI 49684 (616)941-0850

Britannica Encyclopedia Educational Corp.
425 North Michigan Avenue
Chicago, IL 60611
(312)321-7100 or 1-800-558-6968

Britannica Learning Materials
P.O. Box 2249, Britannica Place
Cambridge, ON N3C 3N4
(416)961-1064 (519)658-4621

Bullfrog Films
Oley, PA 19547 (609)543-FROG
Note: free catalogue upon request

Canada Centre for Inland Waters
Public Information, P.O. Box 5050
Burlington, ON L7R 4A6 (416)336-4981
Note: Great Lakes water resources, publications, newsletter, audio-visuals

The Canadian Coalition on Acid Rain/
The Canadian Acid Precipitation Foundation
112 St. Clair Avenue West, Suite 401
Toronto, ON M4V 2Y3 (416)968-2135
Note: free information packages

Canadian Department of External Affairs
Information Division
125 Sussex Drive
Ottawa, ON K1A 0G2 (613)996-9134
Note: periodical/occasional Great Lakes

Canadian Embassy
Office of Information
Ambassade du Canada
Public Affairs Division
501 Pennsylvania Avenue, NW
Washington, DC 20036 (202)882-1740
Note: periodical/occasional Great Lakes

Canadian Institute for Environmental
Law and Policy
517 College Street, Suite 400
Toronto, ON M6G 4A2 (416)923-3529
Note: occasional Great Lakes material

Canadian Environmental Law
Research Foundation
517 College Street, Suite 400
Toronto, ON M6G 4A2 (416)923-3529
Note: occasional Great Lakes material

Carolina Biological Supply Company
Main Office and Laboratories,
Burlington, NC 27215
(919)584-0381 or 1(800)334-5551
Note: producers of teacher resource and classroom ready materials, charts, maps, videos, filmstrips, games; catalog includes price lists

Carswell Legal Publications
2330 Midland Avenue
Agincourt, ON M1S 1P7 (416)291-8421

C.B.C. Enterprises
Educational Resources
Box 500, Station A
Toronto, ON M5W 1E6 (416)975-3500
Center for Environmental Information
33 South Washington Street
Rochester, NY 14608 (716)546-3796
Note: occasional Great Lakes material

Center for Environmental Study
Room 70M, 143 Bostwick NE
Grand Rapids, MI 49503 (616)456-4848

The Center for the Great Lakes
435 N. Michigan Avenue, Suite 1408
Chicago, IL 60611 (312)645-0901
Note: student/teacher materials, newsletter, fact sheets on Areas of Concern
or
The Centre for the Great Lakes
320-1/2 Bloor Street West, Suite 301 Toronto,
ON M5S 1W5 (416)921-7662

CFPL-TV London News
Box 2880
London, ON N6A 4H9 (519)686-8810
FAX (519)686-3288

Charles Stewart Mott Foundation
1200 Mott Foundation Building
Flint, MI 48502-1851 (313)238-5651

CHV Communications Inc.
18 Corwin Crescent
Downsview, ON M3H 2A1 (416)633-9079

Cleveland State University
Geography Department
1983 East Twenty-fourth Street
Cleveland, OH 44115 (216)687-2000

Concern, Inc.
1794 Columbia Road, NW
Washington, DC 20009 (202)328-8160

Conservation Education Association
Wisconsin Department of Natural Resources
Box 7921, Madison, WI 53701 (608)266-6790

Contemporary Books, Inc.
160 North Michigan Avenue
Chicago, IL 60601 (312)782-9181

Council of Great Lakes Governors
310 South Michigan Avenue, 10th floor
Chicago, IL 60604 (312)427-0092

Department of Natural Resources
Cornell University
Room 108, Fernow Hall
Ithaca, NY 14853 (607)255-2814

Department of Supply and Services
Canadian Government Publishing Centre
Ottawa, ON K1A 0S9 (613)997-2560

DePaul University
Chemistry Department
1036 W. Belden Avenue
Chicago, IL 60614 (312)341-8191

Detroit Free Press
321 West Lafayette
Detroit, MI 48231 (313)222-6600

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

Educational Images Ltd.
3456 Weabide Station
Elmira, NY 14905 (607)732-1090

E.K. Tour Boat Service Ltd.
3A Hillyard Street
Hamilton, ON L8L 6A9 (416)521-0662

Enterprise for Education, Inc.
1320A Santa Monica Mall
Santa Monica, CA 90401 (213)394-9864

Environmental Hazards Management Institute
P.O. Box 932
Durham, NH 03824 (603)868-1496

Environmental Hazards Team
c/o NIMBI
R. R. #7
Dunnville, ON N1A 2W6 (416)774-4769

Environment Canada - Alberta
Environmental Protection
Room 210, 4999-98 Avenue
Edmonton, AB T6B 2X3 (403)468-8075
Note: videotape
Environment Canada, Enquiry Centre
Environmental Protection Service
351 St. Joseph Blvd.
Ottawa, ON K1A 0H3 (613)997-2800

Environment Canada
Great Lakes Environment Program
Ontario Region
25 St. Clair Avenue East
Toronto, ON M4T 1M2 (416)973-6467/1093

Environment Canada
Great Lakes Water Levels Communications
Canada Centre for Inland Waters
P.O. Box 5050
Burlington, ON L7R 4A6 (416)336-4581

Environment Canada
Inland Waters Directorate
Editorial and Publications Division
Ottawa, ON K1A 0H3 (613)997-2601

Environmental Protection Office
City of Toronto
Department of Public Health
12 Shuter Street, Third floor
Toronto, ON M5B 1A1 (416)392-6788
Note: materials on environmental protection

ERIC Clearinghouse for Science
Mathematics and Environmental Education
1200 Chambers Road, Third Floor
Columbus, OH 43212 (614)292-6717

Federation of Ontario Naturalists (FON)
355 Leesmill Road
Don Mills, ON M3B 2W8 (416)444-8419
Note: Seasons magazine-Great Lakes issue

Fisheries and Oceans Canada
Communications Department
1134-200 Kent Street
Ottawa, ON K1A 0E6 (613)993-0999

Glenora Fisheries Station
Picton, ON K0K 2T0 (613)476-7877

The Globe and Mail
444 Front Street West
Toronto, ON M5V 2S9 (416)426-0005

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
1451 Green Road
Ann Arbor, MI 48105 (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 Institute
University of Windsor
Windsor, ON N9B 3P4 (519)253-4232
Note: technical reports

Great Lakes Program Office
207 Jarvis Hall
State University of New York
Buffalo, NY 14260 (716)636-2088

Great Lakes Research Consortium
214 Baker Laboratory, SUNY ESF
Syracuse, NY 13210 (315)470-6894

Great Lakes Tomorrow
720 Bathurst Street
Fourth Floor, Unit 3
Toronto, ON M5S 2R4 (416)536-9161

Great Lakes United
State University College at Buffalo
Cassety Hall, 1300 Elmwood Avenue
Buffalo, NY 14222 (716)886-0142
or
Canadian address:
P.O. Box 548, Station A
Windsor, ON N9A 6M6

Greenpeace
578 Bloor Street West
Toronto, ON M6G 1K1 (416)538-6470
or
Greenpeace Great Lakes
1017 West Jackson Blvd.
Chicago, IL 60607 (312)666-3305

Harbor House Publishers
221 Water Street
Boyne City, MI 49712 (616)582-2814
Note: books, magazines on Great Lakes
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)251-3994  
Note: free catalog on basic science literacy

Heldref Publications  
Helen Dwight Reid Educational Foundation  
4000 Albemarle Street NW, Suite 604  
Washington, DC 20016 (202)362-6445

Illinois Department of Conservation  
524 South Second Street  
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 Environmental Protection Agency  
2200 Churchill Road  
Springfield, IL 62794-9276 (217)782-5562  
Note: produces pamphlets and reports on groundwater, slide-tape program and coloring book on water activities

Illinois-Indiana Sea Grant Program  
Communications Office  
University of Illinois  
51 Mumford Hall, 1301 West Gregory Drive  
Urbana, IL 61801 (217)333-9448

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

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

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

Indiana Dunes National Lakeshore  
1100 Mineral Springs Road  
Porter, IN 46304 (219)938-0947

Inland Seas Education Association  
P.O. Box 4223  
Traverse City, MI 49685-4223 (616)271-6637

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)  
University of Michigan  
IST Building, 2200 Bonisteel Blvd.  
Ann Arbor, MI 48109 (313)498-2007  
Note: newsletter and conferences

International Joint Commission  
Canadian Section Headquarters  
100 Metcalfe Street, 18th Floor  
Ottawa, ON K1P 5M1 (613)996-2964

International Joint Commission  
Great Lakes Regional Office  
100 Ouellette Avenue, Eighth Floor  
Windsor, ON N9A 6T3 (519)256-7821  
or P.O. Box 32869  
Detroit, MI 48232 (313)226-2170

International Joint Commission  
United States Section Headquarters  
2001 S Street, N.W., Second Floor  
Washington, DC 20440 (202)673-2222

Is Five Press  
400 Mt. Pleasant Road  
Suite 4  
Toronto, ON M4S 2L8 (416)480-2408

Jennison Nature Center  
3582 State Park Drive  
Bay City, MI 48706 (517)886-9000  
Note: book on Tobico Marsh $7 US funds proceeds towards the Center’s programs

John G. Shedd Aquarium  
1200 South Lake Shore Drive  
Chicago, IL 60605  
(312)939-2426  
Note: aquatic programs/workshops in Great Lakes, videos
Lake Michigan Federation
59 East Van Buren Street, Suite 2215
Chicago, IL 60605 (312)939-0838
or
647 West Virginia
Milwaukee, WI 53204 (414)271-5059

Lake Superior Center
353 Harbor Drive
Duluth, MN 55802 (218)727-1552

Laurel Creek Centre
Waterloo Region R.C. School Board
91 Moore Avenue
Kitchener, ON N2G 3X5 (519)885-1289

Marine Museum of the Great Lakes at Kingston
55 Ontario Street
Kingston, ON K7L 2Y2 (613)542-2261
Note: education programmes

Michigan Department Of Natural Resources
P.O. Box 30028
Stevens T. Mason Building
Lansing, MI 48909

Michigan Natural Resources Magazine
(Michigan Book Central)
P.O. Box 30034
Lansing, MI 48909
in Michigan 1-800-292-2525
out-of-state 1-800-248-5848

Michigan Sea Grant Extension
Cooperative Extension Service
Michigan State University
10-B Agriculture Hall
East Lansing, MI 48824-1039 (517)355-0240

Michigan Sea Grant Publications Office
University of Michigan
2200 Bonisteel Boulevard, IST Building
Ann Arbor, MI 48109-2099 (313)764-1138

Michigan State University
334 Natural Resources Building
East Lansing, MI 48824-1222 (517)353-9568
Institute of Water Research
(517)353-3742
Instructional Media Center
(517)353-3960

Michigan United Conservation Clubs
Education Department
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 Education
644 Capitol Square Building
St. Paul, MN 55101 (612)296-4069

Minnesota Department of Natural Resources
500 Lafayette Road
St. Paul, MN 55146 (612)296-6157

Minnesota Pollution Control Agency
Public Information Office
1935 West County Road, B2
Roseville, MN 55113 (612)296-6300/7331

Minnesota Sea Grant College Program
University of Minnesota
116 Classroom-Office Building
1994 Buford Avenue
St. Paul, MN 55108 (612)625-9288

Minnesota Sea Grant Extension Service
University of Minnesota
208 Washburn Hall
2305 East 5th Street
Duluth, MN 55812 (218)726-8106

Minnesota State Planning Agency
Environmental Division
Room 100, Capitol Square Building
530 Cedar Street
St. Paul, MN 55101 (612)296-3985

National Aquarium in Baltimore
Pier 3, 501 East Pratt Street
Baltimore, MD 21202 (301)576-3887

National Earth Science Teacher's Assn.
c/o 733 Lorraine Street
Grosse Pointe, MI 48230 (313)882-2569
National Film Board of Canada
Toronto only: rental (416)973-9093
purchase (416)973-2395
booking & sales - FAX (416)973-6318
Ontario: 1-(800)267-7110
Quebec: 1-(800)363-0328
United States: (212)586-5131
or call your nearest NFB office

National Geographic Society
Educational Services
211 Watline Avenue, Suite 210
Mississauga, ON L4Z 1P3 (416)890-1111
or U.S. toll: (800)368-3728
in Washington: (202)921-1330

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

National Park Service
Midwest Regional Office
1709 Jackson Street
Omaha, NB 68102 (402)221-3431

National Public Radio
Cassette Publishing
2225 M Street, NW
Washington, DC 20036 (800)253-0808

National Science Teachers Association
1742 Connecticut Avenue NW
Washington, DC 20009 (202)331-5800
Note: Lists of resources, teachers’ guide, posters available, occasional Great Lakes material

National Survival Institute
One Nicholas Street, Suite 406
Ottawa, ON K1N 7B7 (613)232-6634

National Water Research Institute
The Editor, NWRI Digest
P.O. Box 5050
Burlington, ON L7R 4A6 (416)336-4971

National Wildlife Federation
Great Lakes Office
802 Monroe
Ann Arbor, MI 48104 (313)769-3351

New York Sea Grant Extension Program
21 South Grove Street
East Aurora, NY 14052 (716)652-5453

New York Sea Grant Extension Program
Cornell University
12 Fenow Hall
Ithaca, NY 14853-3001 (607)255-2832

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

New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233 (518)457-0849

North American Association for
Environmental Education (NAEE)
5995 Horseshoe Bend Road, Box 400
Troy, OH 45373 (513)953-3588

Ohio Department of Education
Division Elementary & Secondary Education
65 South Front Street, Room 1005
Columbus, OH 43206 (614)266-2211

Ohio Department of Natural Resources
1939 Fountain Square, Bldg E-3
Columbus, OH 43224 (614)266-6712

Ohio Environmental Council
22 E. Gay Street, Suite 300
Columbus, OH 43215 (614)224-6900

Ohio Environmental Protection Agency
Public Interest Center
P.O. Box 1049, 1800 WaterMark Drive
Columbus, OH 43266-0149 (614)644-2168
Ohio Sea Grant College Program
The Ohio State University
1641 Research Center Building
1314 Kinnear Road
Columbus, OH 43212-1194 (614)292-8949

Ohio Sea Grant Education Program
The Ohio State University
069 Ramseyer, 29 West Woodruff
Columbus, OH 43210-1085 (614)292-1078

The Ohio State University
School of Natural Resource
2021 Coffey Road
Columbus, OH 43210-1085 (614)292-2265

Ontario Association for Geographic
and Environmental Education
P.P.S.
36 Bessemer Court, Unit 3
Concord, ON L4K 3C9

Ontario Environment Network
Box 125, Station P
Toronto, ON M5T 2Z7 (416)925-1322

Ontario Ministry of the Environment
Public Information Centre
135 St. Clair Avenue West
Toronto, ON M4V 1P5 (416)323-4321
Note: English and French material

Ontario Ministry of Natural Resources
Public Information Centre
Whitney Block
99 Wellesley Street West
Toronto, ON M7A 1W3 (416)965-7883

Ontario Teachers’ Federation
Suite 700, 1260 Bay Street
Toronto, ON M5R 2B5 (416)966-3424

Ontario Waste Management Corporation
2 Bloor Street West, 11th Floor
Toronto, ON M4W 3E2 (416)923-2918

Outdoor America
Izaak Walton League of America
1401 Wilson Blvd., Level B
Arlington, VA 22209 (703)528-1815

Pennsylvania Department of Education
Office of Environmental Education
Bureau of Curriculum and Instruction
333 Market Street, Eighth Floor
Harrisburg, PA 17126-0333 (717)787-9845

Pennsylvania Department of Environmental
Resources
Office of Public Liaison
Box 2063
Harrisburg, PA 17120-2063 (717)783-8303

Pollution Probe Foundation
12 Madison Avenue
Toronto, ON M5R 2S1 (416)926-1907
Note: books, newsletter, Great Lakes material

Portable Theatre
c/o Howard Jerome
778 Palmerston Avenue
Toronto, ON M6G 2R5 (416)538-1085

Public Focus
92 Shaftesbury Avenue
Toronto, ON M4T 1A5 (416)975-9463

Rawson Academy of Aquatic Science
Education and Information
One Nicholas Street, Suite 404
Ottawa, ON K1N 7B7 (613)563-2636

Royal Canadian Geographical Society
39 McArthur Avenue
Vanier, ON K1L 8L7
1-(800)267-0824 or (613)745-4629

Schlitz Audubon Center
111 East Brown Deer Road
Milwaukee, WI 53217 (414)352-2880

Science Teachers Association
Faculty of Education
University of Toronto
371 Bloor Street West
Toronto, ON M5S 2R7 (416)978-3222
U.S. Environmental Protection Agency
Office of Public Affairs - Region V
230 South Dearborn Street
Chicago, IL 60604 (312)353-2072/3209
Water Division -
(312)353-2154
Books -
(312)353-2117
Note: films are free - must pay postage

U.S. Fish and Wildlife Service
Film Library
Bishop Henry Whipple Federal Building
Fort Snelling
Twin Cities, MN 55111 (612)725-3582

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

U.S. Water News, Inc.
The Freshwater Foundation
230 Main Street
Halstead, KS 67056 (316)835-2222

Visual Education Centre
Unit 1, 75 Horner Avenue
Toronto, ON M8Z 4X5 (416)252-5907

Waste Systems Institute of Michigan Inc.
400 Ann Street NW, #201-A
Grand Rapid, MI 49504-2054 (616)363-3262

Water Conservation Systems, Inc.
Damonmill Square
Concord, MA 01742 (508)369-3961

Water Centre for Groundwater Research
University of Waterloo
Department of Earth Sciences
Waterloo, ON N2L 3G1 (519)885-1211 ext 2892

Water Pollution Control Federation
Public Education Department
601 Wythe Street
Alexandria, VA 22314-1994 (703)684-2438

Wisconsin Department of Natural Resources
Lake Michigan District Headquarters
P.O. Box 10448
Green Bay, WI 54307 (414)497-4040

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

WNMU-TV
Northern Michigan University
Marquette, MI 49855 (906)227-1300

World Game Institute
University City Science Center
Program Coordinator
3508 Market Street
Philadelphia, PA 19104 (215)387-0220