Exotic Aquatics!

Learning Resource Kit

See also:
MINNU-V-95-001

Compliments of:
Minnesota Sea Grant
MINNESOTA SEA GRANT
EXOTIC AQUATICS
Traveling Trunk

Evaluation Form

We want to hear from you! After you have used the trunk, please complete this evaluation form. We want to know how the trunks are being used and what items in the trunk provide the most educational value. Evaluations will also help us track who is using them, where, and how many students it's reaching.

Please print:
Your Name: ___________________________ Dates of Use: ___________________________

Location/Address: ___________________________

How many students used the trunk? ______ Ages of students: ___________________________

Please answer the following questions based on how you rate the trunk: (please circle appropriate #)

<table>
<thead>
<tr>
<th></th>
<th>Poor</th>
<th>Fair</th>
<th>Good</th>
<th>Very Good</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>What was the state of your students' understanding of exotic aquatic prior to using the trunk?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>What is the state of your students' understanding of exotic aquatic after using the trunk?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Rate how it improved your understanding of the problems posed by exotic aquatic.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Rate how appropriate the concepts are for the age group(s).</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>How well does the design allow for the lessons to be tailored for different age groups?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>How well do the lesson plans integrate other disciplines?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>How easy are the lessons to read, and how well did you understand how to use them?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>How useful are the hands-on specimens?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>How useful are the books, maps, and posters?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>How useful is the videotape?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>What is the overall educational resource value of the trunk?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>What is the overall quality of the trunk?</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

(OVER)
**Please rate other things concerning service: (please circle appropriate #)**

<table>
<thead>
<tr>
<th></th>
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<th>Good</th>
<th>Very Good</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Rate how easy the trunk was to order.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>• Rate the rental cost of the trunk.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>• Rate the timeliness in which the trunk arrived for your use.</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

**Additional Questions:**
Have you used exotic species education in your programming before? Is so, where did you get the information and was is useful?

____________________________________________________________________________

____________________________________________________________________________

What was your (or your students’) favorite or least favorite thing about the trunk?

____________________________________________________________________________

____________________________________________________________________________

In relation to a favorite thing, is there something someone said, did, or made that you could describe (or quote) for us?

____________________________________________________________________________

____________________________________________________________________________

Based on your experience with the trunk, would you borrow it again? Would you recommend its use to other teachers/educators?

____________________________________________________________________________

____________________________________________________________________________

Are you a repeat user of the trunk? If so, when and where?

____________________________________________________________________________

____________________________________________________________________________

Additional comments or suggestions:

____________________________________________________________________________

____________________________________________________________________________

____________________________________________________________________________

**Thank you!!**

**Your responses are valuable to us!**

Please return this form along with the trunk or send to:

Minnesota Sea Grant Program
Exotic Species Information Center
2305 East Fifth Street
Duluth, MN 55812-1445
Phone: (218) 726-8712
Fax: (218) 726-6556
This project was made possible in part by a grant from the University of Minnesota Sea Grant College Program which is part of the National Sea Grant College Program, National Oceanic and Atmospheric Administration (NOAA), grant number NA90AA-D-56149.

Minnesota Sea Grant is a statewide program that supports research, extension and educational programs related to Lake Superior and Minnesota's water resources. It is part of the National Sea Grant Program which supports programs in 29 coastal and Great Lakes states.

Michael McLean, Traveling Trunk Principle Investigator
Marie Salés, Minnesota Sea Grant Communications Coordinator
Doug Jensen, Minnesota Sea Grant Exotic Species Information Center

Sea Grant offices are located on the Duluth campus of the University of Minnesota, phone: (218) 726-8106

We would also like to acknowledge the following staff at the James Ford Bell Museum of Natural History for their team effort in putting this kit together:

Jane Greenberg, Learning Resource Kit Program Coordinator
Curt Hadland, Exhibits Designer
Amy Lenard, Curriculum Writer
Deb Juberian, Graphic Designer
Liesa Stromberg, Graphic Designer & Illustrator
Jennifer Menken, Museum Preparator
Gordon Smuder, Preparator Assistant
Aaron Maschoian, Museum Assistant
Jane Barnard, Museum Volunteer
Jack Lynch, Museum Volunteer

The Bell Museum is located on the Minneapolis campus of the University of Minnesota, phone: (612) 624-4112.
Materials Included in Kit

Specimens
- two acrylic encased ruffe
- two examples of sea lamprey
- three vials with five spiny water fleas in each
- three vials with daphnia to compare to spiny water fleas
- a rubber crayfish to compare to spiny water fleas and daphnia
- one example of purple loosestrife mounted and laminated
- one example of Eurasian watermilfoil mounted and laminated
- two examples of mounted zebra mussels
- one bag of loose zebra mussels
- one example of an Endangered Higgin's Eye mussel, mounted

Books
- A Guide to Aquatic Plants
- A Field Guide to Freshwater Mussels of the Midwest
- A Golden Guide To Fishes (Qty 2)
- A Golden Guide To Pond Life (Qty 2)
- Eyewitness Explorers: Insects
- Endangered Wetland Animals
- Exploring Freshwater Habitats
- Eyewitness Books: Fish
- Freshwater Mussels of the Upper Mississippi River (Qty 2)
- Look Closer: River Life
- The Unfolding River
- Wetlands

Miscellaneous
- Observation Form that can be copied (see lesson #1)
- Exotic Aquatic Information Form that can be copied (see lesson #1)
- 1 overhead of a pheasant, grouse, & house sparrow (see lesson #1)
- 1 overhead of a pheasant, tulip, & rainbow trout (see lesson #1)
Materials Included in Kit

- 1 overhead of the Great Lakes – St. Lawrence (see lesson #2)
- Exotic Combo pictures, teacher’s key & student picture (see lesson #9)
- one world map
- one map of the Great Lakes – St. Lawrence
- before and after posters of Lake Will-be-Gone & Lake Exotica
- one poster, America’s Pearly Mussels
- one poster, Mussel Life Cycle
- one poster, Stop the Invaders
- six pamphlets, A Field Guide to Aquatic Exotic Plants and Animals
- 6 magnifying glasses

Video

- Aquatic Exotics, Minnesota Department of Natural Resources