

NATIONAL SEA GRANT DEPOSITORY PUBLICATION TRANSMITTAL SHEET

ILIN-E-95-002 C2

Originating Sea Grant Program:

Illinois-Indiana Sea Grant Program

Title:

Zebra Mussel Mania Traveling Trunk Teacher Resource Portfolio

Publication Number:

ILIL-SG-95-2b

Sea Grant Project Number:

Price: \$ 35.00

no charge

Shipping/Handling \$ included

Discounts (if applicable) _____

Availability:

your Sea Grant program

only on loan from the Depository

publisher: address: _____

other: _____

Abstract Please insert the abstract in the following space or attach a separate sheet; annual reports, newsletters, publication lists, program directories and documents that already include an abstract, i.e., journal reprints, are exempt.

The teacher resource portfolio, which accompanies the Zebra Mussel Mania Traveling Trunk, contains information on zebra mussels and other nonindigenous species. This information is contained in various pamphlets, brochures, fact sheets, and videos.

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MINNESOTA SEA GRANT
EXOTIC AQUATICS
TRAVELING TRUNK REQUEST FORM

Name: _____

Organization: _____

Address: _____

Phone #: _____

Fax #: _____

E-mail: _____

Please indicate dates that you would like to reserve
the **Exotic Aquatics** Traveling Trunk. Include
several alternates.

Mail or Fax to:-

Sea Grant

Minnesota Sea Grant
Exotic Species information Center
2305 East Fifth Street
Duluth, MN 55812-1445
Phone: (218) 726-8712
Fax: (218) 726-6556
djensen@mes.umn.edu

Exotic Aquatics LENDING CENTERS

IOWA

Effigy Mounds National Monument, Harpers Ferry

MICHIGAN

Isle Royale National Park, Houghton
Michigan Sea Grant College Program, East Lansing
Sleeping Bear Dunes National Lakeshore, Empire

MINNESOTA

Lake Superior Center, Duluth
Minnesota Sea Grant Program, Duluth
University of Minnesota Bell Museum of Natural History,
Minneapolis
Voyageurs National Park, International Falls

WISCONSIN

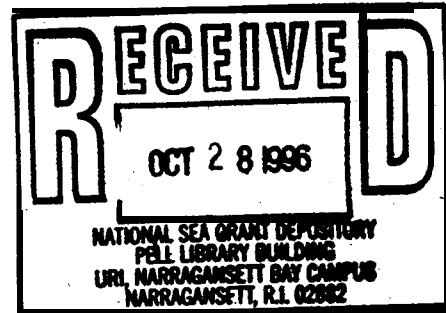
St. Croix National Scenic Riverway, St. Croix Falls

MINNESOTA SEA GRANT AND
ILLINOIS-INDIANA SEA GRANT
PRESENT:

**EXOTIC AQUATICS
&
ZEBRA
. MUSSEL
MANIA**



TRAVELING TRUNKS



ZEBRA MUSSELS, WHICH INVADED NORTH AMERICA IN 1988, HAVE CAUSED SERIOUS ECONOMIC AND ENVIRONMENTAL PROBLEMS. THEY ARE RAPIDLY SPREADING BEYOND THE GREAT LAKES REGION INTO MANY INLAND WATERWAYS.

ZEBRA MUSSEL MANIA TRAVELING TRUNK

Tune into zebra mussels and other exotic species with this award-winning science kit and curriculum. The experiments, games, stories and other hands-on activities, which meet science education standards, will help educators teach kids ages 9-14 about a wide range of problems associated with zebra mussels, and other exotics. Students can inquire and discover while learning how to become involved in community action projects to help slow the spread of zebra mussels.



WHAT'S IN THE TRUNK?

Each trunk includes a teacher-friendly curriculum guide with ten activities that integrate science with other subjects. Other resources used in experiments and games include: zebra mussel shells, four video programs, student worksheets, posters, shell classification, web of life ecology game, pre- and post-tests, and a teacher resource portfolio filled with background reading.

WHERE DO I ORDER THE TRUNK?

(Choose 1 of 3 options:)

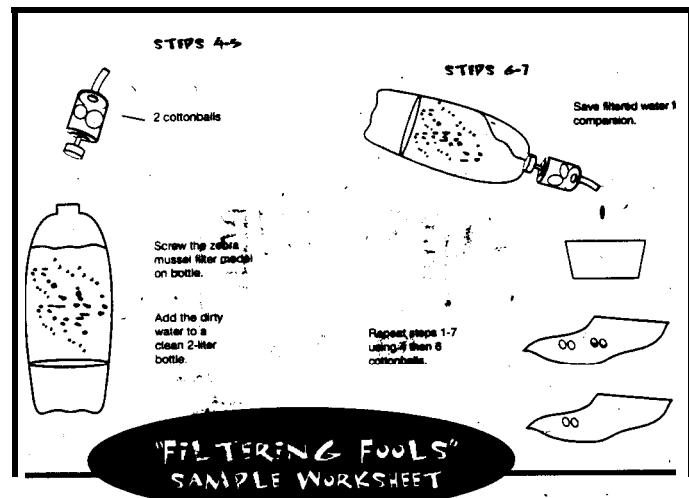
- ◆ Borrow the Zebra Mussel Mania Traveling Trunk from one of the lending centers listed in this

brochure. Call a lending center near you. A user fee/deposit may be charged.

- ◆ Duplicate the trunk yourself by purchasing the curriculum guide (\$35), resource portfolio (\$35) and materials at local stores (about \$200). Use the tear-off request form inside this brochure. (Prices include shipping and handling charges).
- ◆ Purchase a complete trunk, curriculum guide and resource portfolio for \$360, plus \$20 shipping from the address listed on the request form. Use the tear-off request form inside this brochure.

WHO DEVELOPED THIS TRUNK?

The Zebra Mussel Mania Traveling Trunk Project was sponsored and coordinated by Illinois-Indiana Sea Grant in partnership with Illinois Rivers Project with funds appropriated by the 1994 Congress based on the Nonindigenous Species Act. Fifth and sixth grade teachers created the curriculum. Technical expertise was provided by the Illinois Natural History Survey, Illinois American Water Company, Illinois Power Company, and a curriculum specialist from the Bell Museum, of Natural History..



QUESTIONS?

Call Illinois-Indiana Sea Grant at (217) 333-9448. If you have Internet access, our homepage is at: <http://www.anse.purdue.edu/il-in-sg/>,

EXOTIC SPECIES ARE A REAL ENVIRONMENTAL THREAT. WITHOUT NATURAL PREDATORS, THEY OFTEN DISPLACE NATIVE SPECIES AND IMPACT RECREATION, WATER QUALITY, POLLUTANT CYCLING, AND HABITAT.

EXOTIC AQUATICS TRAVELING TRUNK

Get up close and personal with exotic aquatic animals and plants! Now students, ages nine to adult, can have fun seeing and touching zebra mussels, Eurasian watermilfoil, sea lamprey, and Eurasian ruffe -- all exotic aquatics that are in the news and may be in a lake or wetland near you.



WHAT'S IN THE TRUNK?

Each trunk includes museum-quality preserved specimens of: zebra mussels, Eurasian ruffe, purple loosestrife, Eurasian watermilfoil, and spiny water-fleas.

There's also a realistic rubber sea lamprey, models of native clams, books, maps, posters, magnifying glasses, a companion VHS video, and a complete curriculum with nine lessons developed in cooperation with University of Minnesota researchers and state environmental agencies.

HOW MUCH IS RENTAL?

- ◆ \$60 for a seven-day period if shipped to you.
- ◆ \$45 for a seven-day period if you pick it up.

(Shipping outside Minnesota may require an additional charge. Charges for National Park locations may vary.)

If you live in the Duluth, MN, area the trunk will be FREE for loan during the 1996-97 school year. **A completed evaluation form must be returned with the trunk.**

HOW DO I ORDER THE TRUNK?

Minnesota Sea Grant coordinates the distribution of the **Exotic Aquatics** Traveling Trunks and will inform you of their availability. If our on-site trunks are not available, we will put you in touch with one of our lending centers.

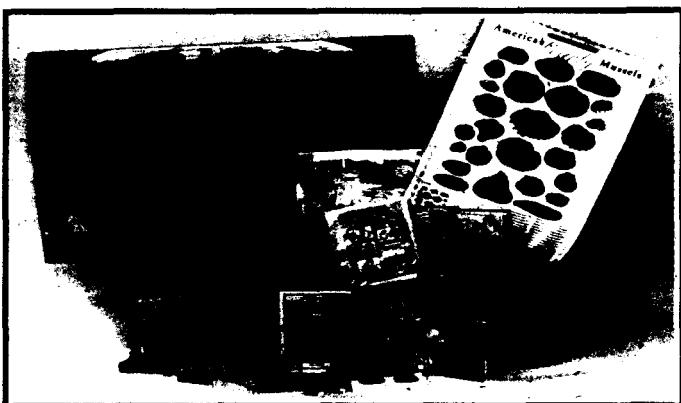
Fill out the tear-off request form inside this brochure. Send no money now.

WHO DEVELOPED THIS TRUNK?

The **Exotic Aquatics** Traveling Trunk project was sponsored and coordinated by Minnesota Sea Grant with funds appropriated by the 1994 Congress based on the Nonindigenous Species Act. Project partners include the University of Minnesota Bell Museum of Natural History, National Park Service, U.S Fish and Wildlife Service, National Park Foundation, and Minnesota Department of Natural Resources, which produced the trunk's, video through a matching contribution.

QUESTIONS?

Call Minnesota Sea Grant at (218) 726-8712. If you have Internet access, our homepage is at: <http://www.d.umn.edu/~seagr/>



ILLINOIS-INDIANA SEA GRANT
ZEBRA MUSSEL MANIA
 TRAVELING TRUNK REQUEST FORM

Name: _____

Agency/
 Organization: _____

Address: _____

Phone #: _____

Fax #: _____

E-mail: _____

If you would like to borrow a Zebra Mussel Mania Traveling Trunk, please contact a lending center near you; please see the list in this brochure.

Please send me information on duplicating the trunk.

I want to purchase a curriculum guide (\$35).

I want to purchase a resource portfolio (\$35).

Make a check payable to: *University of Illinois*

Mail to: Robin Goettel
 Illinois-Indiana Sea Grant Program
 University of Illinois, 65 Mumford Hall
 1301 West Gregory Drive
 Urbana, IL 61801
 (217) 333-9448, r-goettel@uiuc.edu

I would like to purchase a complete trunk.

Make a check for \$380 payable to: *Illinois Rivers Project*

Mail to: Robert Williams
 Illinois Rivers Project
 Box 2222, SIUE
 Edwardsville, IL 62026
 (618)692-3788, rivers@siue.edu



How did you hear about the traveling trunk?

How do you plan to use the trunk? In what kind of activities?

**Zebra Mussel Mania
 LENDING CENTERS**

CALIFORNIA

Marine Activities Resources
 and Education Program
 UC-Berkley
 Roberta Dean 408/684-9105

ILLINOIS

Illinois Cooperative Extension
 Service
 Countryside Center
 Sandra Lignell 708/352-0109
 Marion Center
 Cyndi Regan 618/997-3919

Illinois-Indiana Sea Grant

Urbana
 Robin Goettel 217/333-9448

Shedd Aquarium

Chicago
 Cheryl Mell 312/939-2438

**Southern Illinois University-
 Edwardsville**

Virginia Bryan 618/692-3557
 Robert Williams 618/692-3788

INDIANA

Fort Wayne Children's Zoo
 Cheryl Piropato 219/427-6800

Indianapolis Zoo

Debra Messenger 317/630-2044

Purdue Cooperative Extension

Lake County Center
 Ronald Hoyt 219/755-3240

Mesker Park Zoo

Randy Smith 812/428-0715

Richardson Wildlife Sanctuary

John Thiele, Jr. 219/787-8983

LOUISIANA

Louisiana Energy and
 Environmental Resource and
 Information Center
 Baton Rouge
 Bob Bradley 504/388-6349

MARYLAND

Columbus Center
 J. Adam Frederick 410/576-5743

MASSACHUSETTS

MIT Sea Grant College Program
 Christine James 617/252-1675

MICHIGAN

Michigan Sea Grant College
 Program
 John McKinney 616/922-4620

MINNESOTA

University of Minnesota Bell
 Museum of Natural History
 Jane Greenberg 612/628-2299

Lake Superior Center

Christa Berg 218/720-3033

**Minnesota Valley National
 Wildlife Refuge**

Keith Van Cleave 612/854-5900

NEW HAMPSHIRE

UNH Sea Grant Extension Ctr.
 Julia Dahlgren 603/749-1565

NEW YORK

New York Sea Grant institute
 SUNY Oswego
 Pat MacNeill 315/341-3042

New York Sea Grant institute

SUNY at Stony Brook
 Julie Zeidner 516/632-6905

OHIO

Cincinnati Zoo
 Dan Marsh 513/559-7725

Toledo Zoo

Mitch Magdich 419/385-5721

SOUTH CAROLINA

Charleston Math and Science
 Hub
 Paula Keener-Chavis
 803/953-5812

VERMONT

Lake Champlain Basin Science
 Center
 Julie Silverman 802/864-1848

WEST VIRGINIA

Oglebay Zoo
 Gretchen Henrich 304/243-4029

WISCONSIN

Environmental Resource
 Center
 University of Wisconsin-Madison
 Suzanne Wade 608/265-3257

CANADA

Ontario Federation of Anglers
 and Hunters
 Beth MacKay 705/748-6324

Additional lending centers are
 being established. Contact
 Robin Goettel for current list
 (see request form).