



MINNESOTA AQUATIC INVASIVE
SPECIES RESEARCH CENTER



MAISRC MINUTE

ZEBRA MUSSELS

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8 August 2026
Roosevelt and Lawrence Area Lakes Association

AGENDA

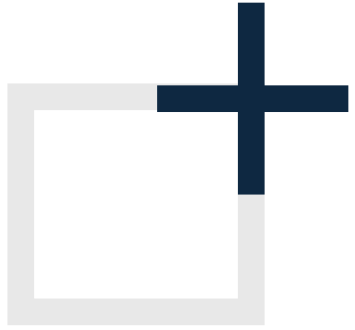
- MINNESOTA AQUATIC INVASIVE SPECIES RESEARCH CENTER
- ZEBRA MUSSELS
 - BIOLOGY AND IMPACTS
 - RESEARCH

MINNESOTA AQUATIC INVASIVE SPECIES RESEARCH CENTER

Est. 2012

Interdisciplinary collegiate
research center at the
University of Minnesota





**SUPPORTED OVER
100 PROJECTS**

- Plants
- Pathogens
- Fish
- Invertebrates
- Social Science

31 RESEARCH FELLOWS

20 GRADUATE STUDENTS





MUSSEL MENACE

🔍 Zebra Mussels

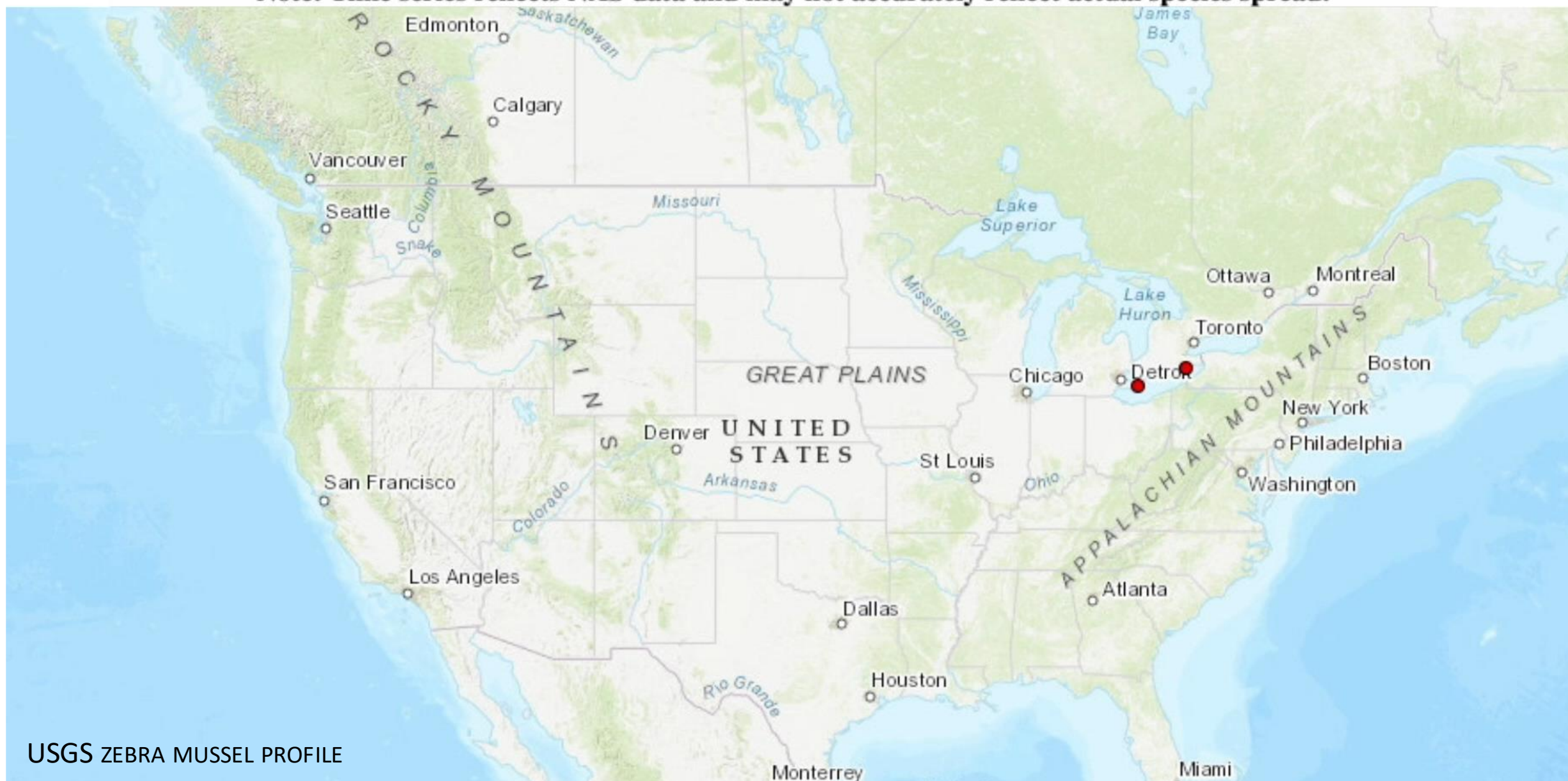
The background of the slide features a close-up photograph of a dense cluster of zebra mussels, showing their characteristic brown and black striped shells. Overlaid on this image is a light gray silhouette map of North America. A white plus sign (+) is positioned in the central United States area, and a white rectangular box highlights a specific region in the Great Lakes area of the map.

ZEBRA MUSSEL DISTRIBUTION

CURRENTLY FOUND 33
STATES ACROSS THE US
AND IN SEVERAL
CANADIAN PROVINCES

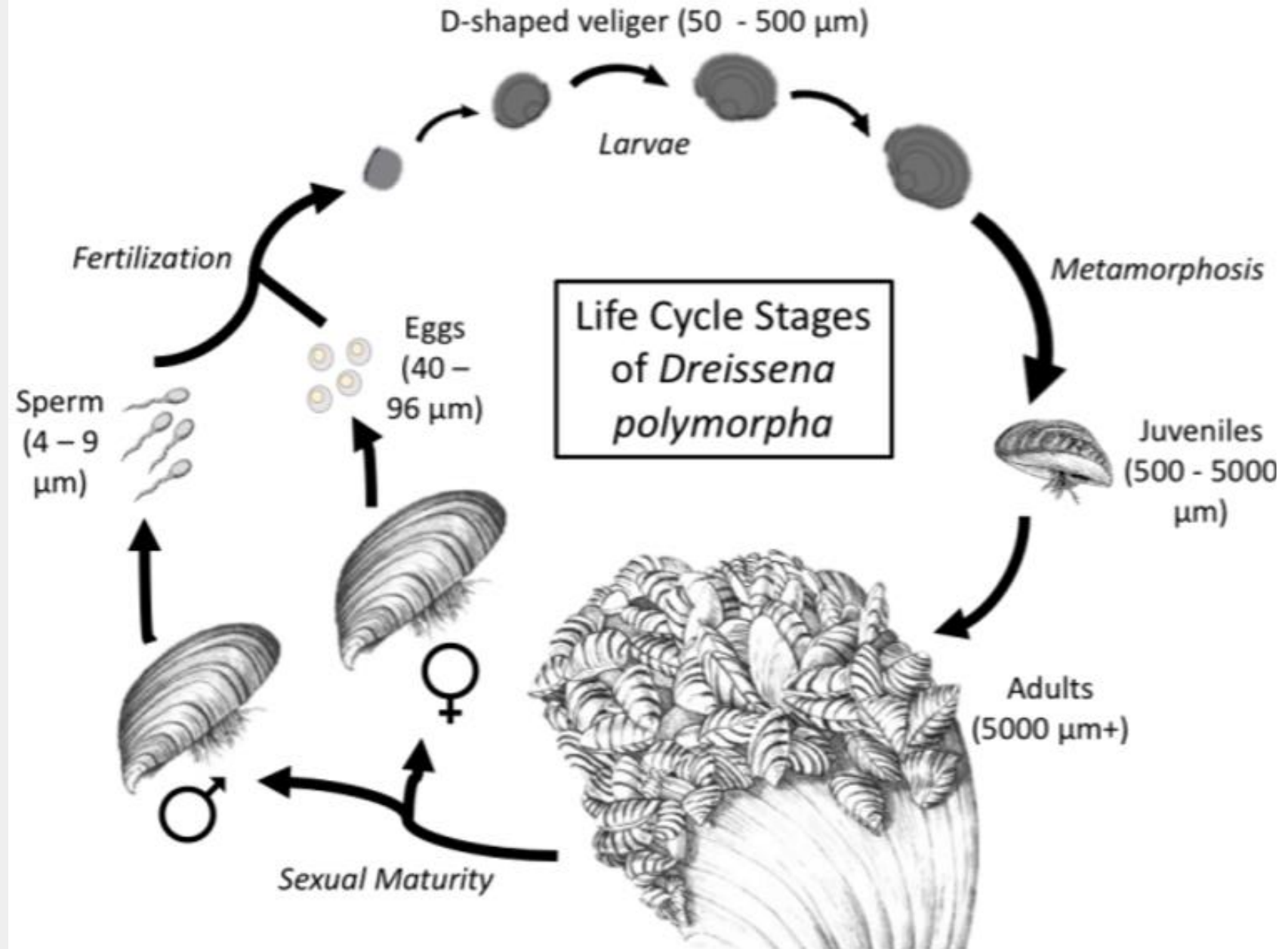
1986

Note: Time series reflects NAS data and may not accurately reflect actual species spread.

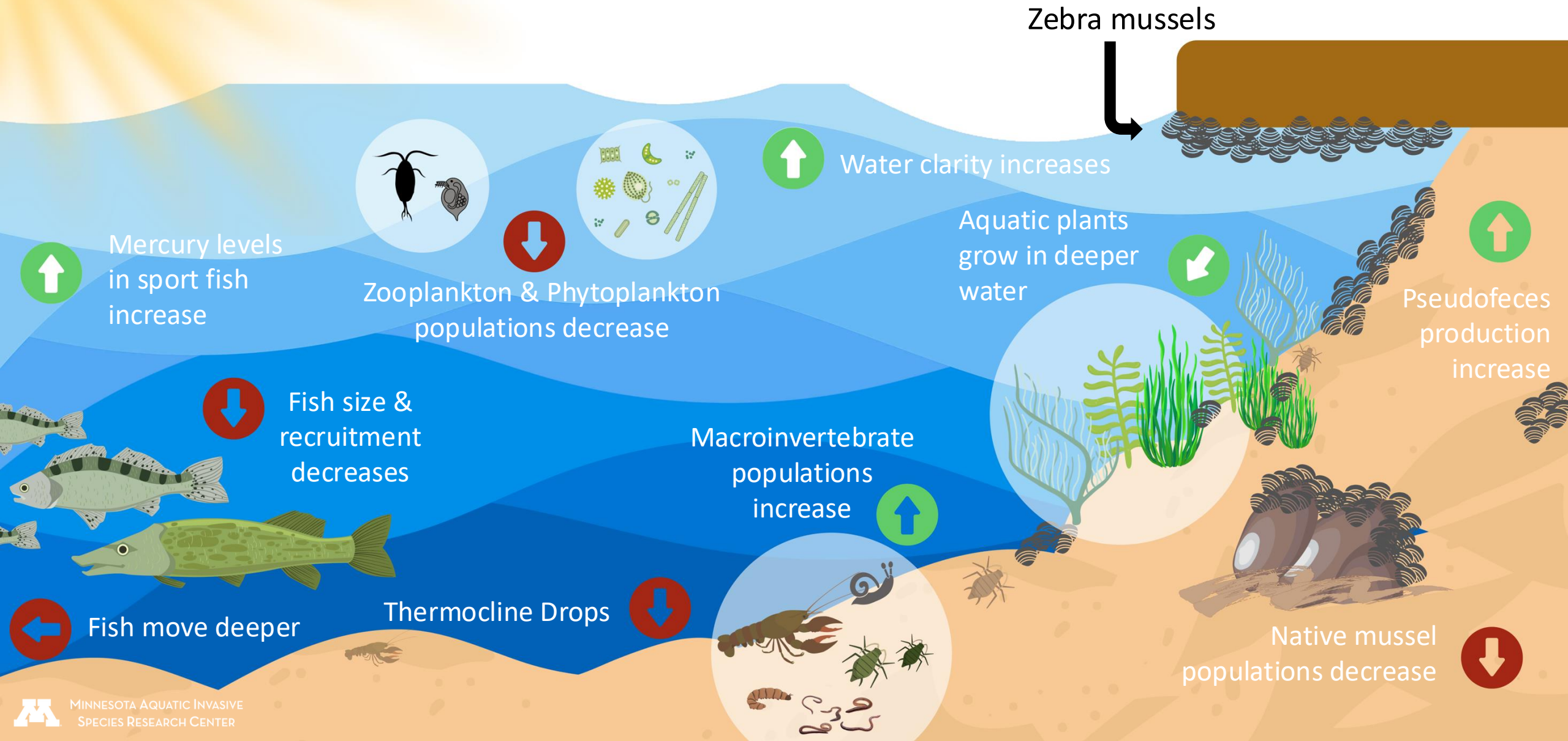


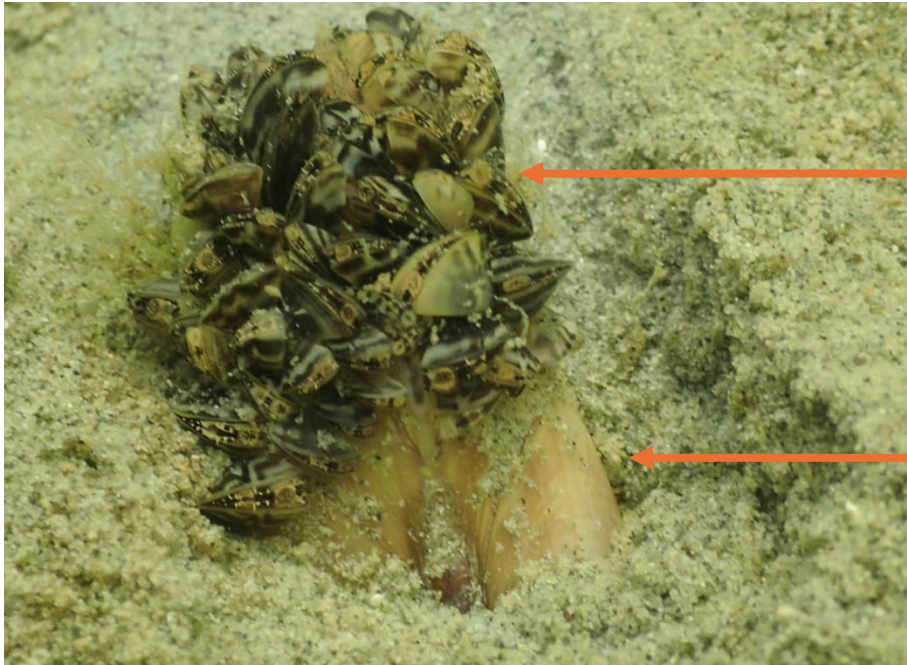
LIFECYCLE OF ZEBRA MUSSELS

EXTERNAL FERTILIZATION
DRIVES REPRODUCTION



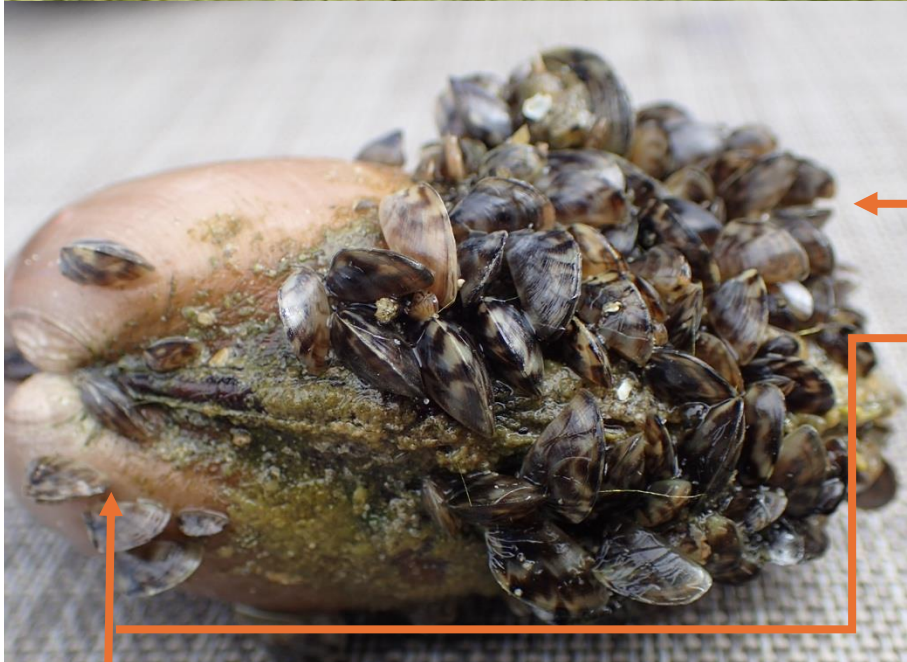
LAKE IMPACTS





ZEBRA MUSSELS

NATIVE MUSSEL



ZEBRA MUSSELS

NATIVE MUSSEL



NATIVE MUSSELS



Photos by MN DNR

Video by: MN DNR

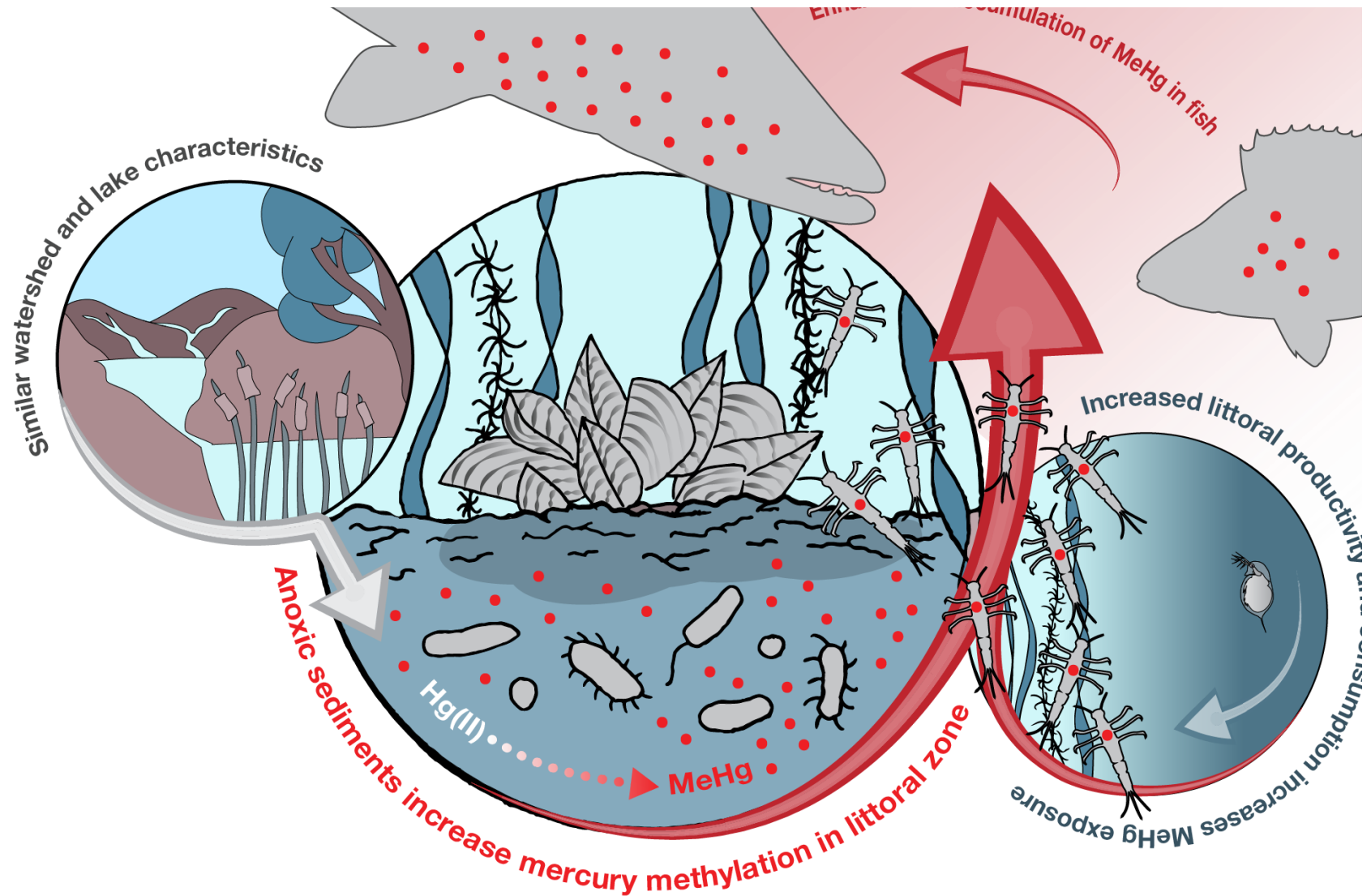
SUPPORT NATIVE MUSSELS BY CLEARING OFF INVASIVE ZEBRA MUSSELS

RESEARCH



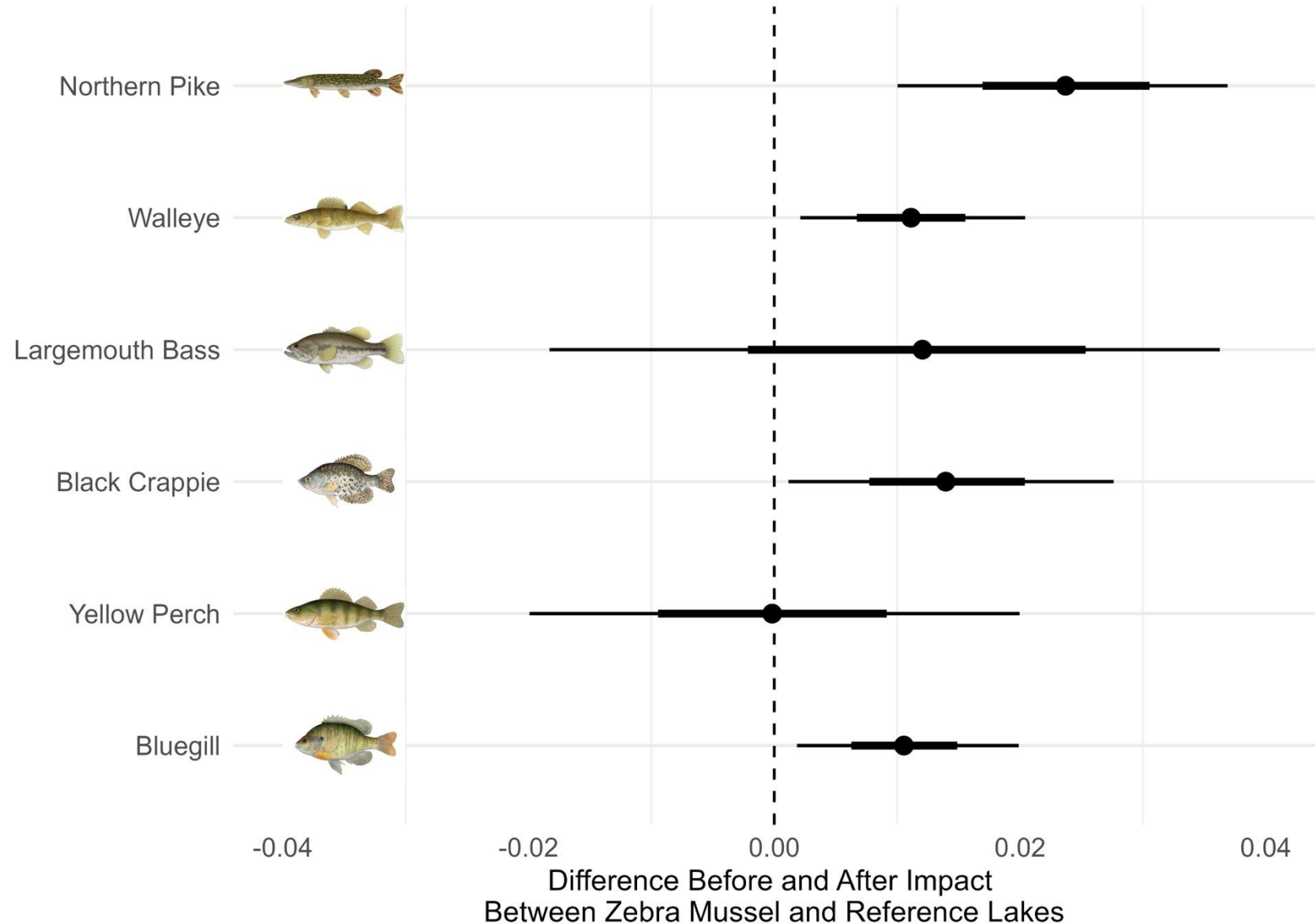
IMPACTS TO SPORTFISH

SIGNIFICANT INCREASE IN
MERCURY IN WALLEYE AND
YELLOW PERCH



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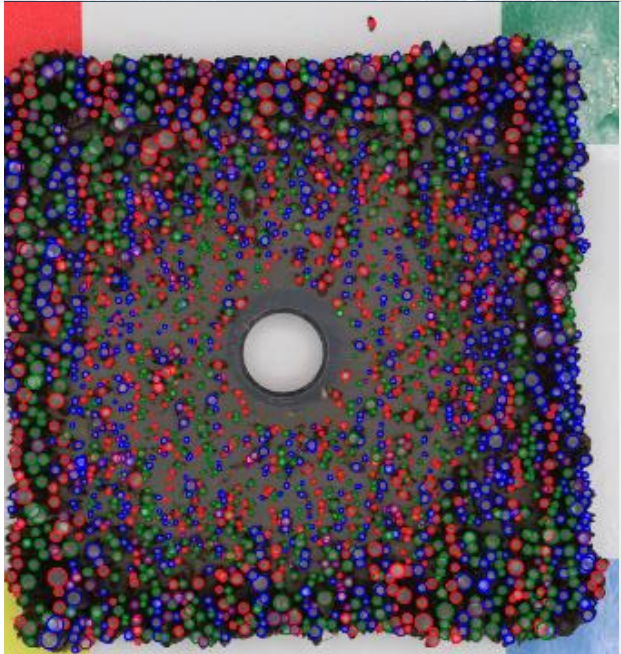


ANTIFOULING COATINGS

Biofouling is a vector for the
spread of AIS - Globally



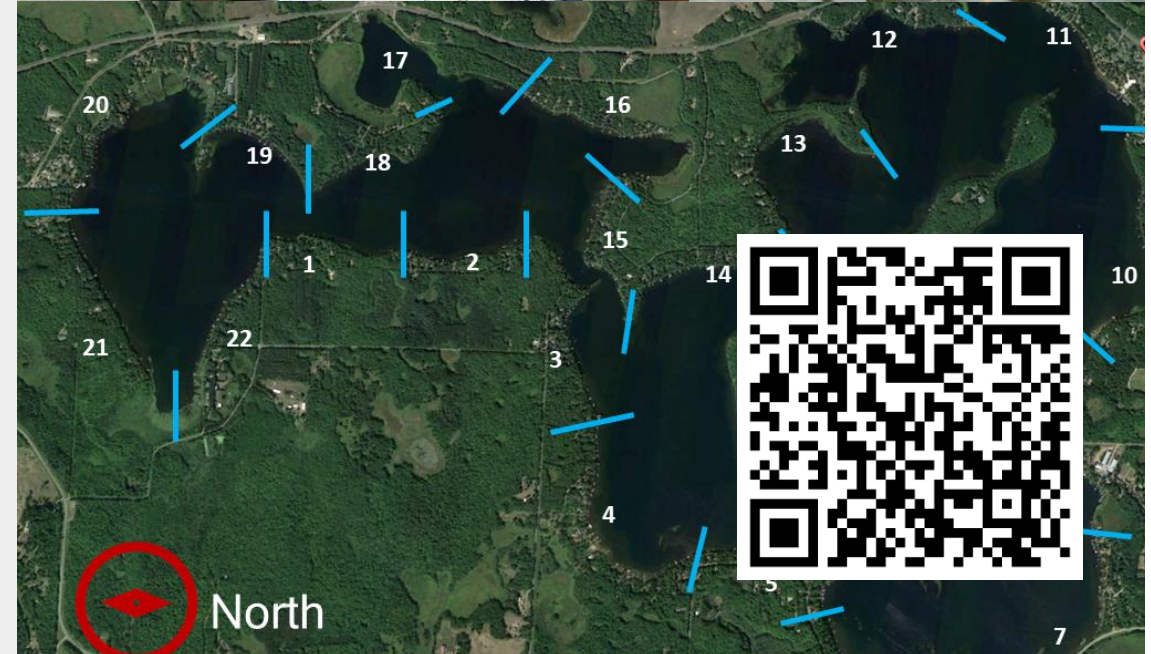
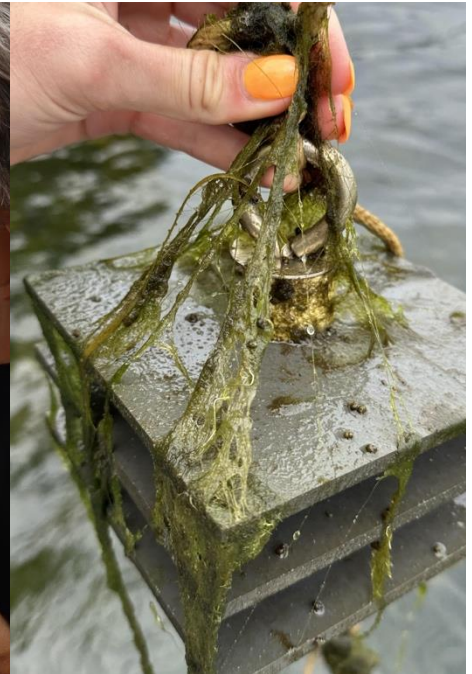
Pre-established biofilm no



ZEBRA MUSSEL SAFARI



A Participatory
Science Program
to Guide
Management
Decisions



LOW DOSE COPPER



LAB



SMALL SCALE



LARGE SCALE



FULL LAKE



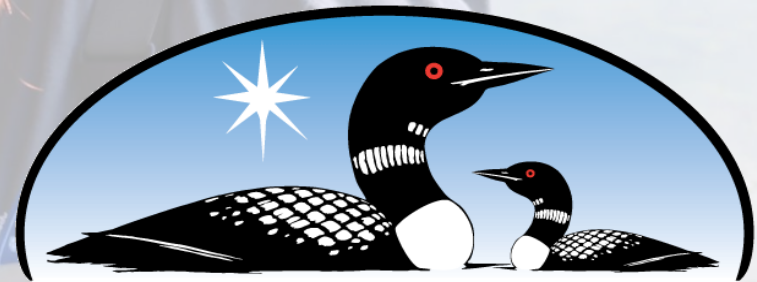


GENOMIC SURVEILLANCE OF ZEBRA MUSSELS

AIMED TO DETERMINE THE
WATERBODIES RESPONSIBLE FOR
NEW INFESTATIONS



FUNDED BY:



**ENVIRONMENT
AND NATURAL RESOURCES
TRUST FUND**





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maisrc.umn.edu

