

Regional Planning for Aquatic Invasive Species in the Winnebago Pool

Michael Lizotte

Executive Director, Winnebago Lakes Council



AIS Policymakers Conference, 4/29/10

Outline

- Winnebago Pool: Collector and Source
- Past, Present and Future
- Planning and Educating

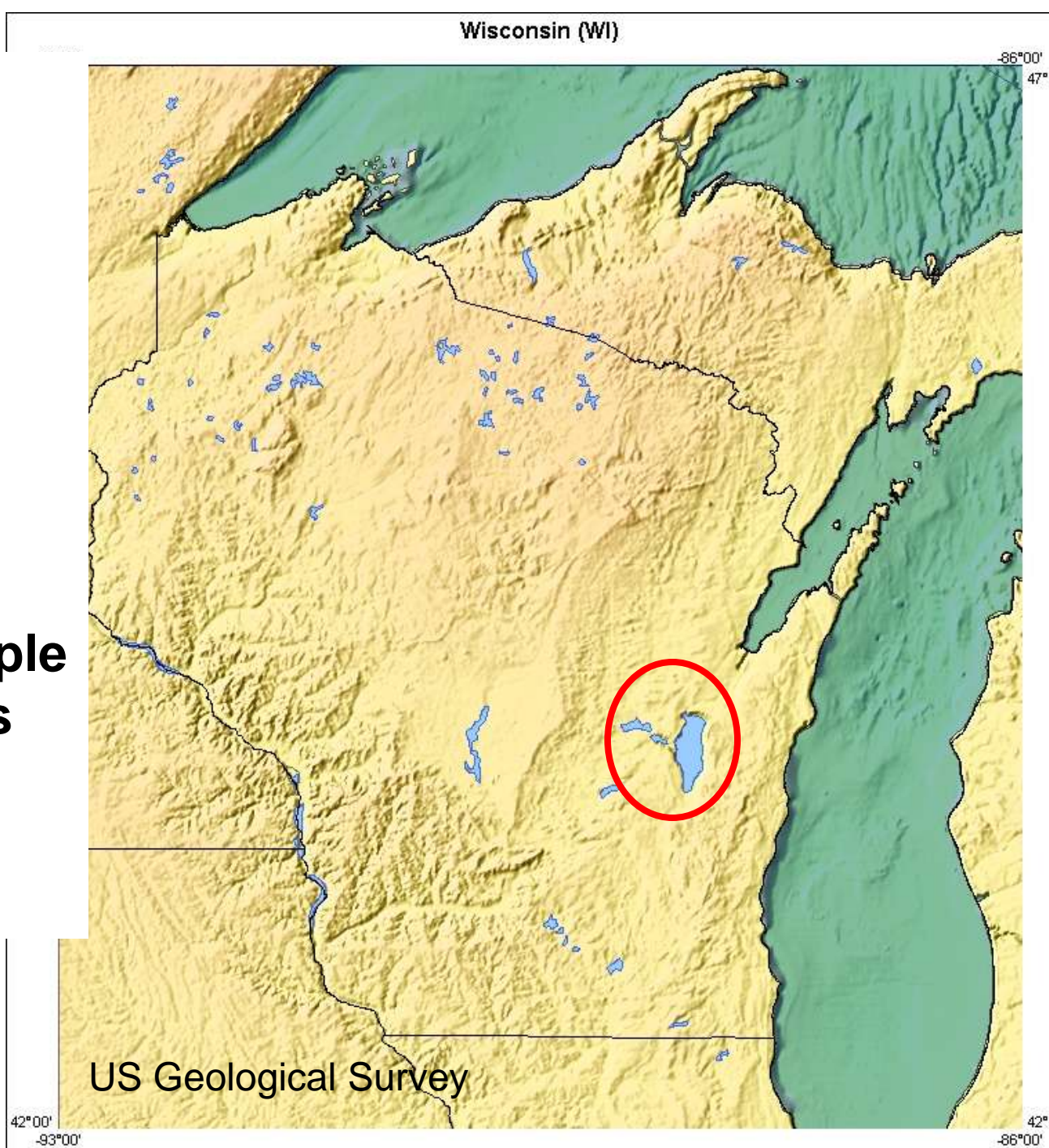
Lake Winnebago Pool :

**17% of the surface
Water in WI**

**Watershed drains
12% of the state**

**Over 2 million people
live within 75 miles**

**#1 Inland boating
destination**



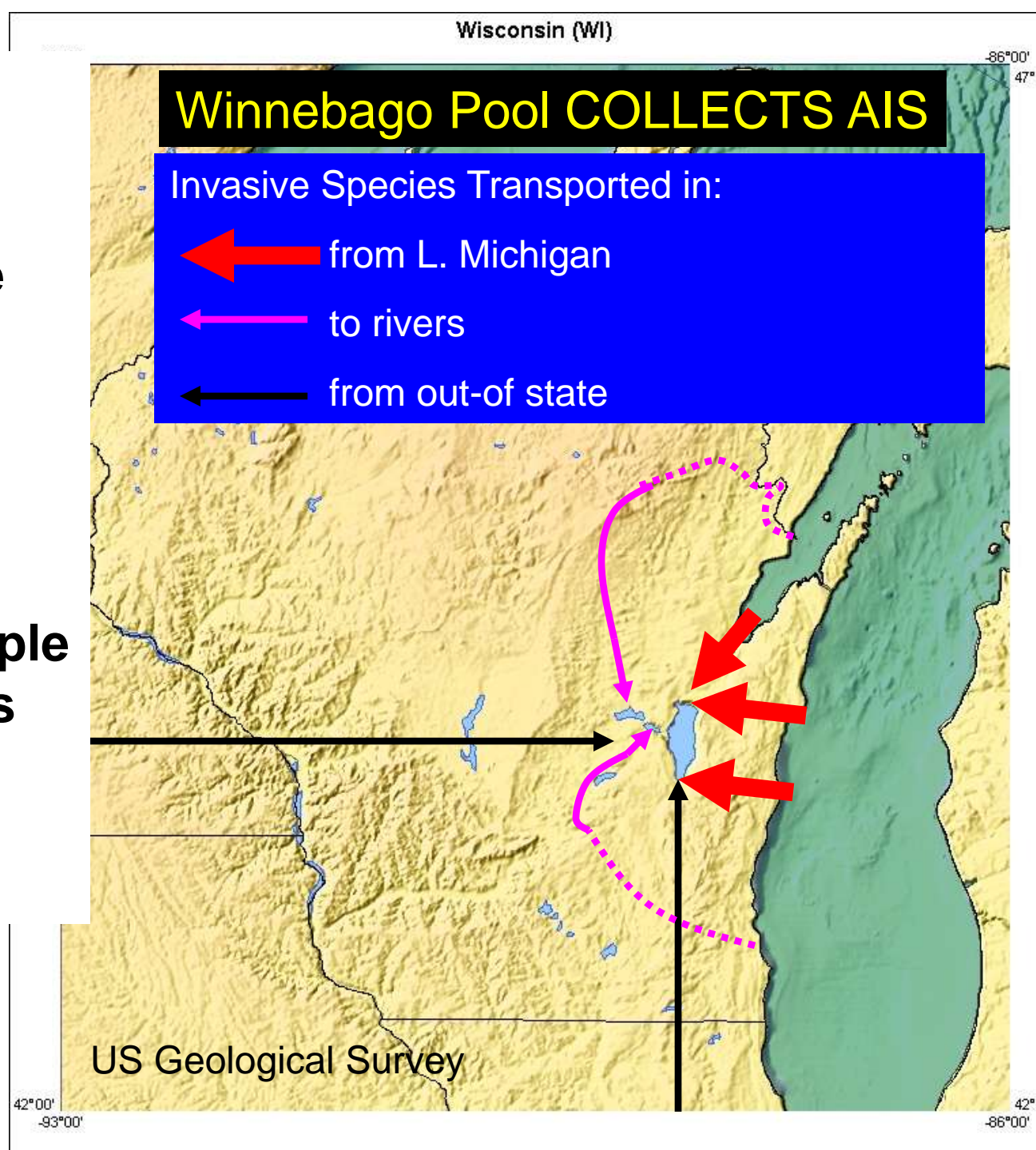
Lake Winnebago Pool :

17% of the surface Water in WI

Watershed drains 12% of the state

Over 2 million people live within 75 miles

#1 Inland boating destination



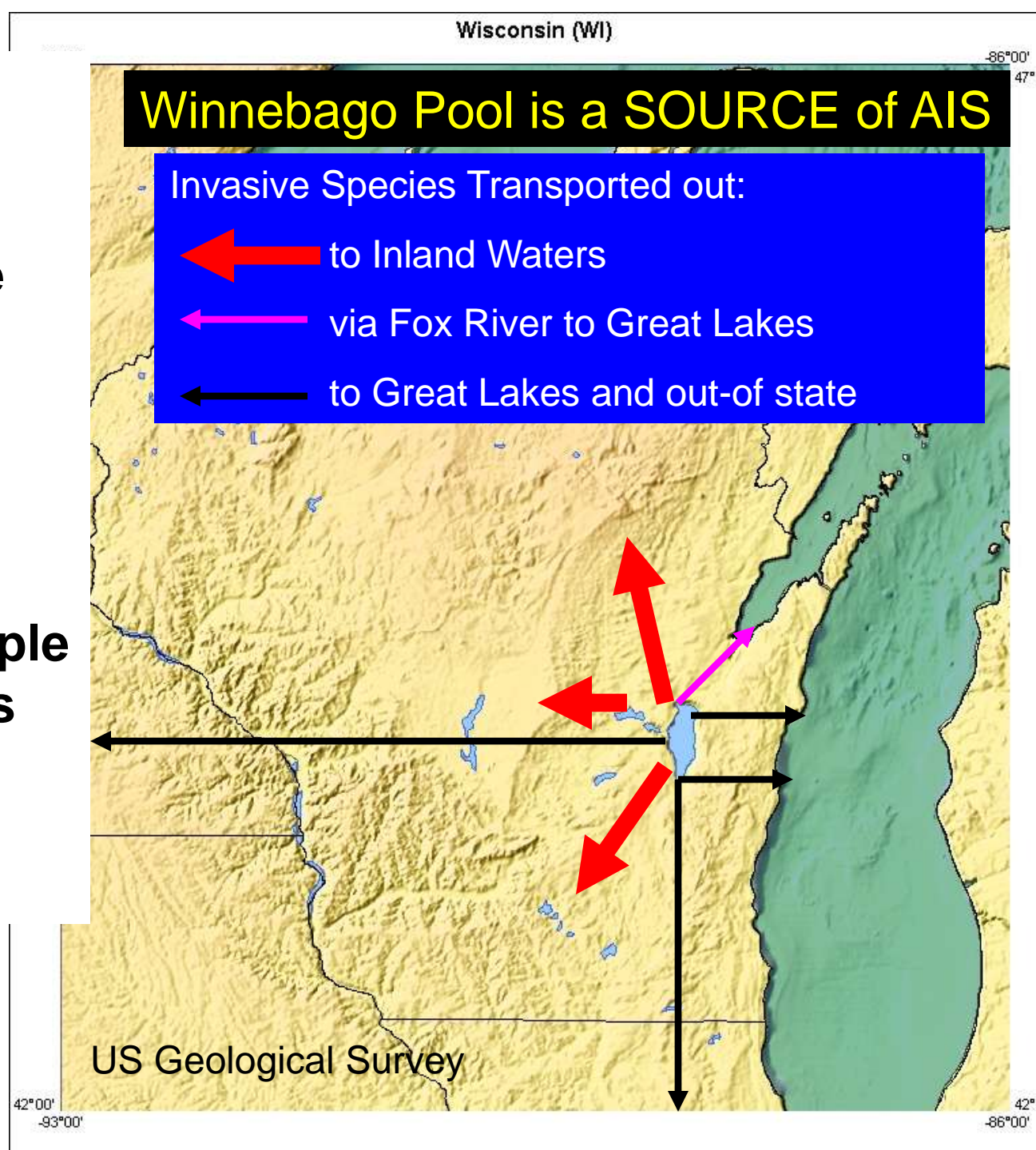
Lake Winnebago Pool :

17% of the surface Water in WI

Watershed drains 12% of the state

Over 2 million people live within 75 miles

#1 Inland boating destination



Zebra Mussel Spread Over Time



Wisconsin Department of
Natural Resources

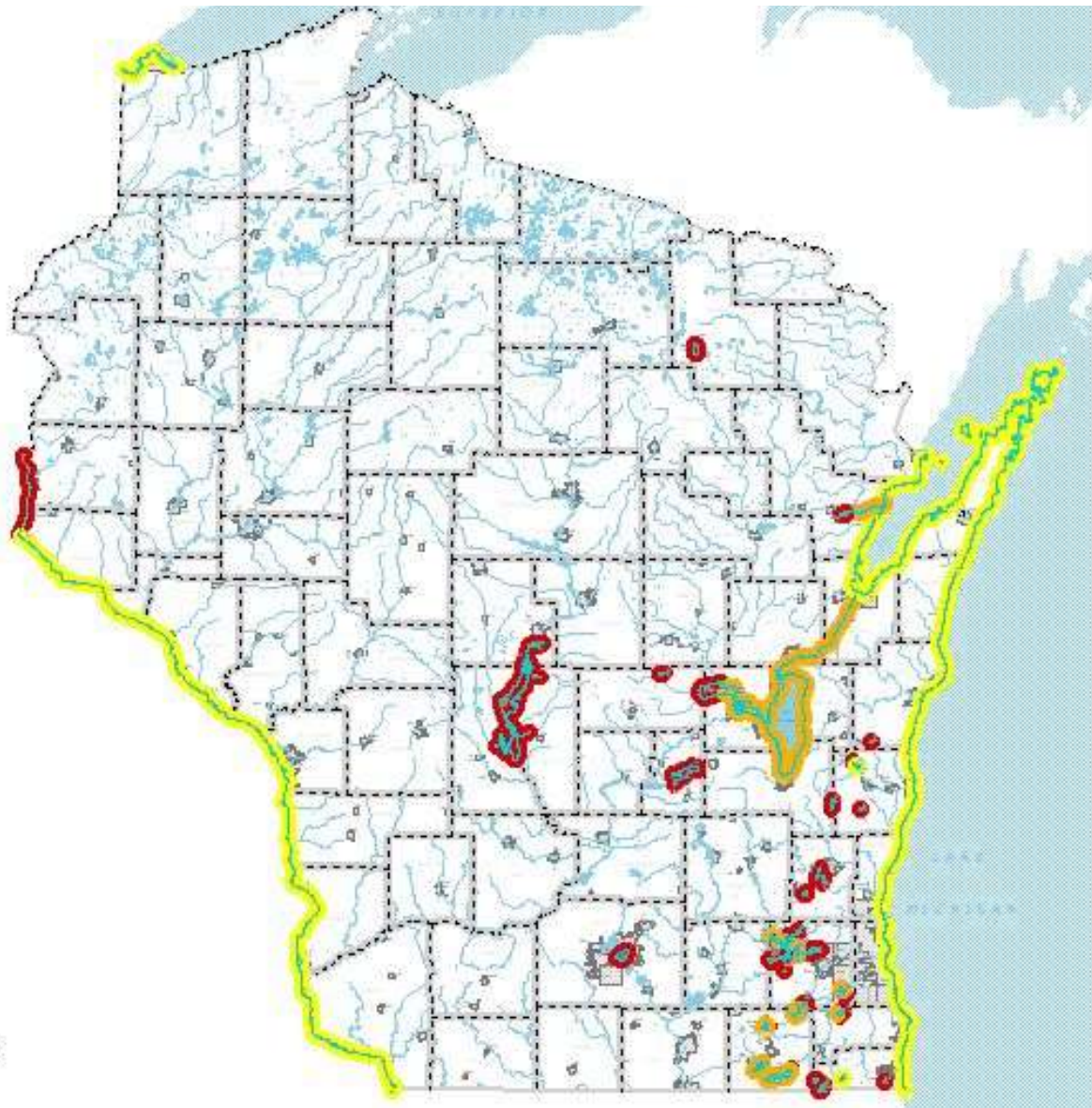
Year Infestation
Was Confirmed

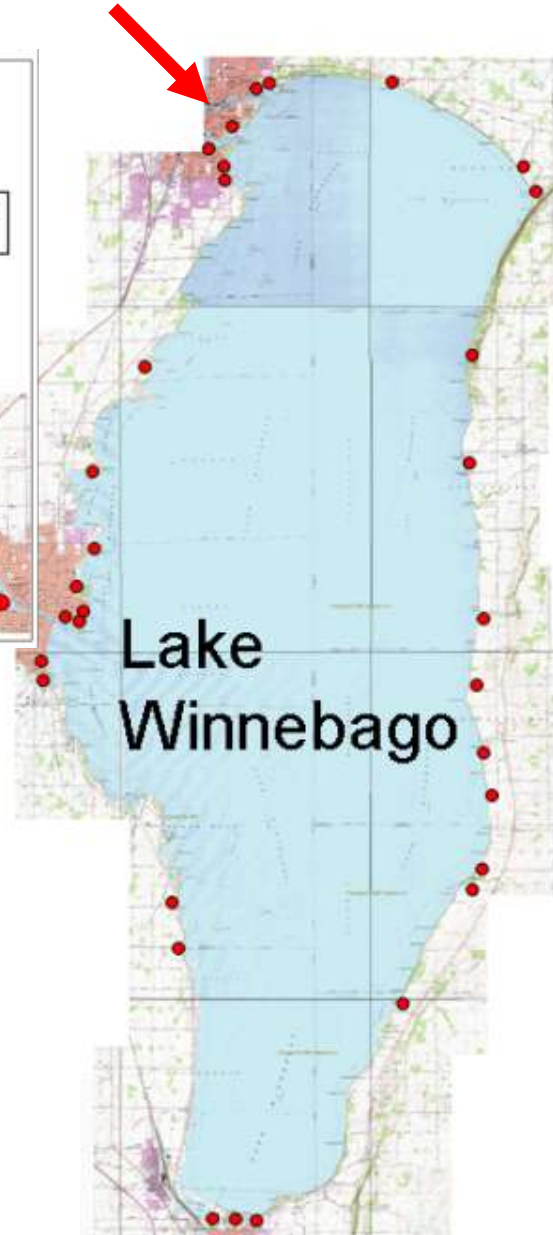
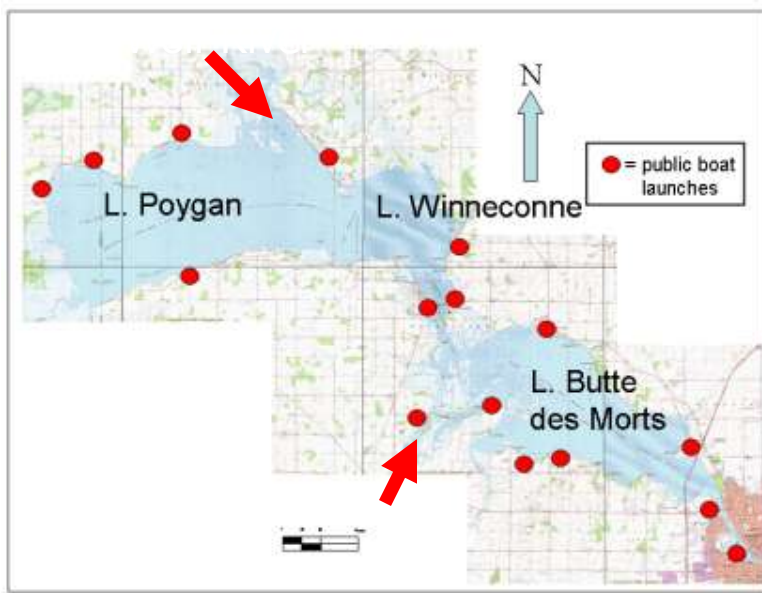


30 0 30 60 Miles



January 2005





Winnebago Pool Public Entry Points for Boaters

Invasive Species



lady's thumb peppermint poison hemlock spearmint water cress black-grass
rush spiny naiad oak leaved goose foot purple loosestrife faucet snail alewife
chinook salmon great hairy willow rainbow trout goldfish moneywort water
foxtail brown trout creeping yellow cress crack willow purple willow true
forgot-me-not white willow western water horehound giant chickweed flattened
rush pea clam European valve snail pea clam European ear snail yard dock
furunculosis smooth field sow thistle European water horehound
banded mystery snail Indian balsam rainbow smelt black alder garden
loosestrife glossy buckthorn creeping whorled mint European brookline henslow's
pea clams salt-marsh fleabane western mosquitofish fingernail clam
European water clover margined madtom relear sunfish orange
spotted sunfish yellow floating heart Oriental mystery snail minor naiad
coho salmon freshwater jellyfish Oriental weatherfish Oriental mystery snail
reed sweet-grass marsh thistle salt-marsh fleabane suckermouth minnow
white perch swamp sedge pink salmon humpback pea clam water chestnut
Bristly Lady's Thumb shortnose gar small flowered hairy willow herb salmonid
whirling disease seaside goldenrod bluespotted sunfish European frogbit
Bacterial Kidney Disease birdsfoot trefoil cocco-lithophorid alga ghost shiner
Asiatic clam lupine spiny waterflea Eurasian ruffe fourspine stickleback
quagga mussel rudd round goby tubenose goby New Zealand mud snail
blueback herring fish-hook waterflea microsporidian SVC spring viraemia of carp
Largemouth Bass Virus muskie pox bloody-red mysid

Future Threats

Invasive Non-Native Plants in the Winnebago Pool

CURRENT

- **Purple Loosestrife**
- Eurasian Water Milfoil
- Curly Leaf Pondweed
- Flowering Rush
- Narrow-leaf Cattail
- Yellow Flag
- Reed Canary Grass

FUTURE ?

- Water Lettuce
- Water Hyacinth
- Yellow Floating Heart
- Parrot Feather
- Brazilian Water Weed
- Pond Starwort
- Fanwort

Invasive Non-Native Animals and Diseases in the Winnebago Pool

CURRENT

- Common Carp
- Zebra Mussel
- Rusty Crayfish
- VHS virus

FUTURE ?

- Sea Lamprey
- White Perch
- Round Goby
- Quagga Mussel
- Spiny Waterflea
- Fishhook Waterflea
- Eurasian Ruffe
- heterosporis

AIS Education, Planning, and Prevention since 2005

- Introduce Existing Public Education Programs
- Draft a Regional Plan for Education, Prevention, & Control

FUTURE:

- Work with Local Government and Groups on Implementing a Regional Plan

Clean Boats Clean Waters

- Statewide program developed for volunteer watercraft inspection and public education related to the spread of AIS.
- 35 part-time paid interns since 2006; they have made > 20,000 boater contacts





Potential threat from the following vectors:

Recreational Boating and Fishing

- transportation of boats and their trailers between water bodies
- hull fouling, entanglement, water from bilge pumps and bait buckets.
- release of imported bait species or species that can host AIS.

Nursery/Water Gardens/Aquarium Suppliers

Construction and Restoration Industry

Aquaculture Industry

Bait Industry

Seaplanes

Strategic Actions for the Winnebago Pool

- 1: Coordinate System-wide AIS Management Activities.
- 2: Prevent new introductions of AIS via boating and fishing.
- 3-7: Prevent new introductions of AIS through ...(other vectors)
- 8: Monitor the Introduction and Spread of AIS.
- 9: Develop a refined system for disseminating AIS information.
- 10-11: Identify scientific and economic research priorities
- 12-14: Encourage state actions.

Next Steps:

- Discussions with municipalities about their roles in prevention and control:
 - Regional coordination
 - Law enforcement
 - Ordinances
 - Funding Clean Boats Clean Waters
 - Infrastructure

