

Aquatic Invasive Species Management in Michigan

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What is an invasive species?



Invasive Species Definition (from Michigan's state management plan)

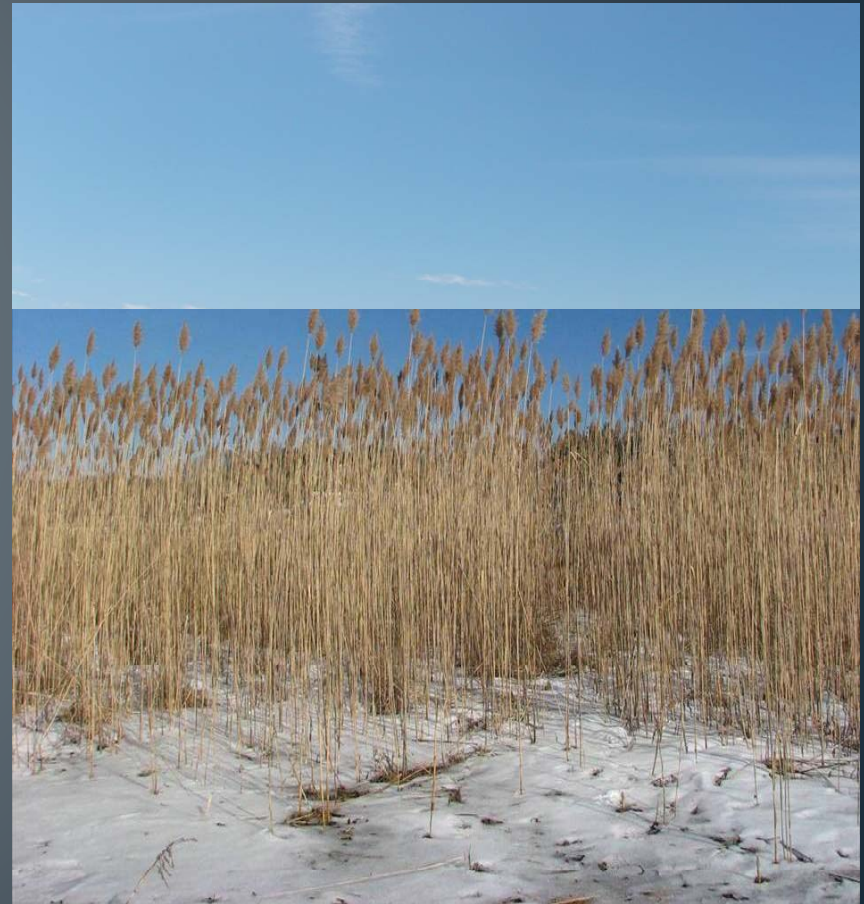
*“An invasive species is defined as a species that is
not native and whose introduction causes, or is
likely to cause, economic or environmental harm or
harm to human health.”*

Why should we care about invasive species?

People protect what they
know and love...



Values





State of Michigan AIS Team/Program

Department of Environmental Quality

- Water Resources Division
- Office of the Great Lakes



Department of Natural Resources

- Fisheries Division
- Wildlife Division
- Parks & Recreation Division
- Law Enforcement Division



Department of Agriculture & Rural Development

- Pesticide & Plant Pest Management Division
- Animal Industry Division



Others

- Department of Transportation
- DNR Forestry
- Attorney General



Michigan's AIS State Management Plan

Goal 1: **Prevent new introductions** of AIS into Michigan waters

Goal 2: **Limit the spread** of established populations of AIS into unfested waters of the state

Goal 3: Develop an **early detection and rapid response** program to address new AIS invasions

Goal 4: **Manage and control** AIS to lessen the harmful ecological, economic, social and public health impacts



AIS Outreach & Education



YouTube Videos



AIS of the Week



Interstate Billboards

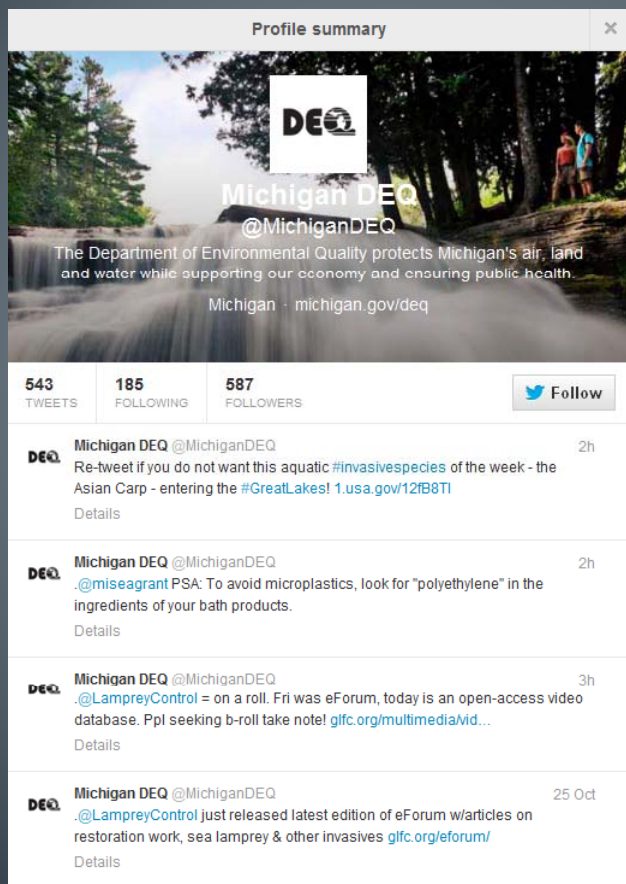


Program Brochure



Field Guides

AIS Outreach & Education Online Resources



Twitter: @MichiganDEQ



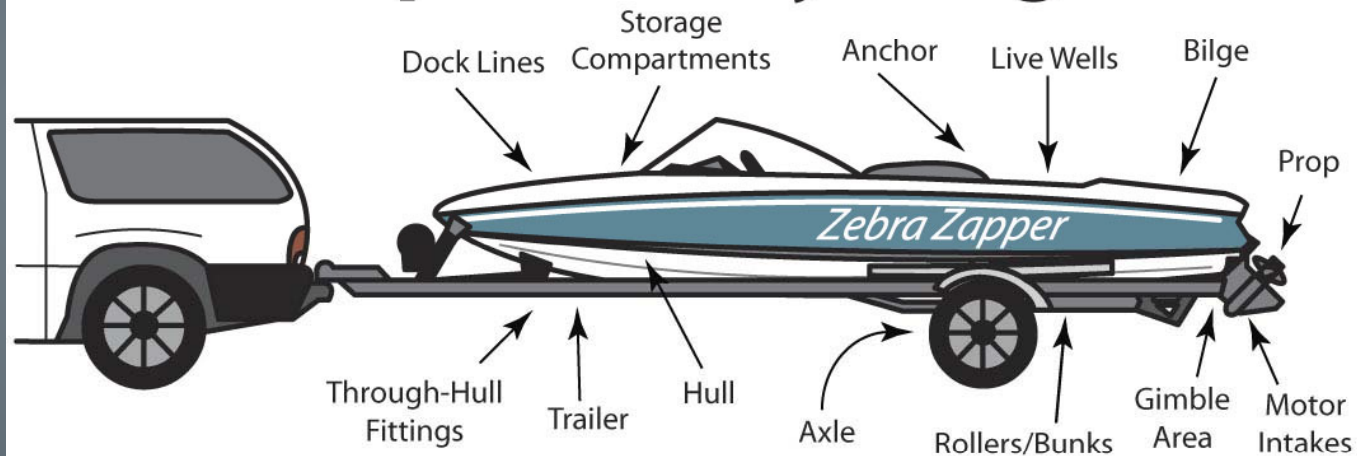
Michigan.gov/InvasiveSpecies

Prevention: What can be done?



Prevention: What can be done?

Before leaving and before launching...
inspect everything!



Clean, Drain, Dry!

Boat Wash Stations (mobile/permanent)



- Pressure washer w/ hot water (~140-160 degrees F)
- No soap/chemicals recommended
- Water recovery and recycling

Interested in a demonstration or partnership at your access site?
Contact Kevin Walters at waltersk@Michigan.gov

More ways to protect your lake/river:

Clean Boats Clean Waters

- Volunteer program to organize a boater education program in your local community
- Email: cbcw@msu.edu (Jo Latimore)



Michigan Clean Water Corps – Cooperative Lakes Monitoring Program Exotic Plant Watch

- Provides sampling methods, training, tech support and lab assistance for volunteers to monitor you lakes
- Email: laurak@glc.org (Laura Kaminski)



Prevention: What can be done?





HELP STOP AQUATIC HITCHHIKERS!

To avoid spreading aquatic invasive species

BEFORE launching ... BEFORE leaving:

- Remove aquatic plants and aquatic animals
- Drain lake or river water away from landing
- Dispose of unwanted live bait in the trash

It's the Law... Do not:

- Transport aquatic plants, zebra mussels, or other prohibited species on public roads
- Launch a watercraft or place a trailer in the water if it has aquatic plants, zebra mussels or other prohibited species attached
- Transport water from infested waters

Michigan Department of Natural Resources



Post signs at access points to raise awareness
(If you need signs, talk to Kevin!)

Prevention: What can be done?



Prevention: What can be done?

**Keep Our
Waters
Great!**



Don't Dump Your Bait!

*Fish diseases like Viral Hemorrhagic Septicemia (VHS)
can be transferred in your bait bucket!*



Early Detection & Rapid Response



EDRR is...

1. Knowing what to look for (detection)
2. Knowing what to do when you find it (response)

Michigan's AIS Watch List

Fish & other Aquatic Animals

- Asian carp (silver, bighead, grass)
- Northern snakehead
- Red swamp crayfish
- Any unknown fish/aquatic animal

Mammals

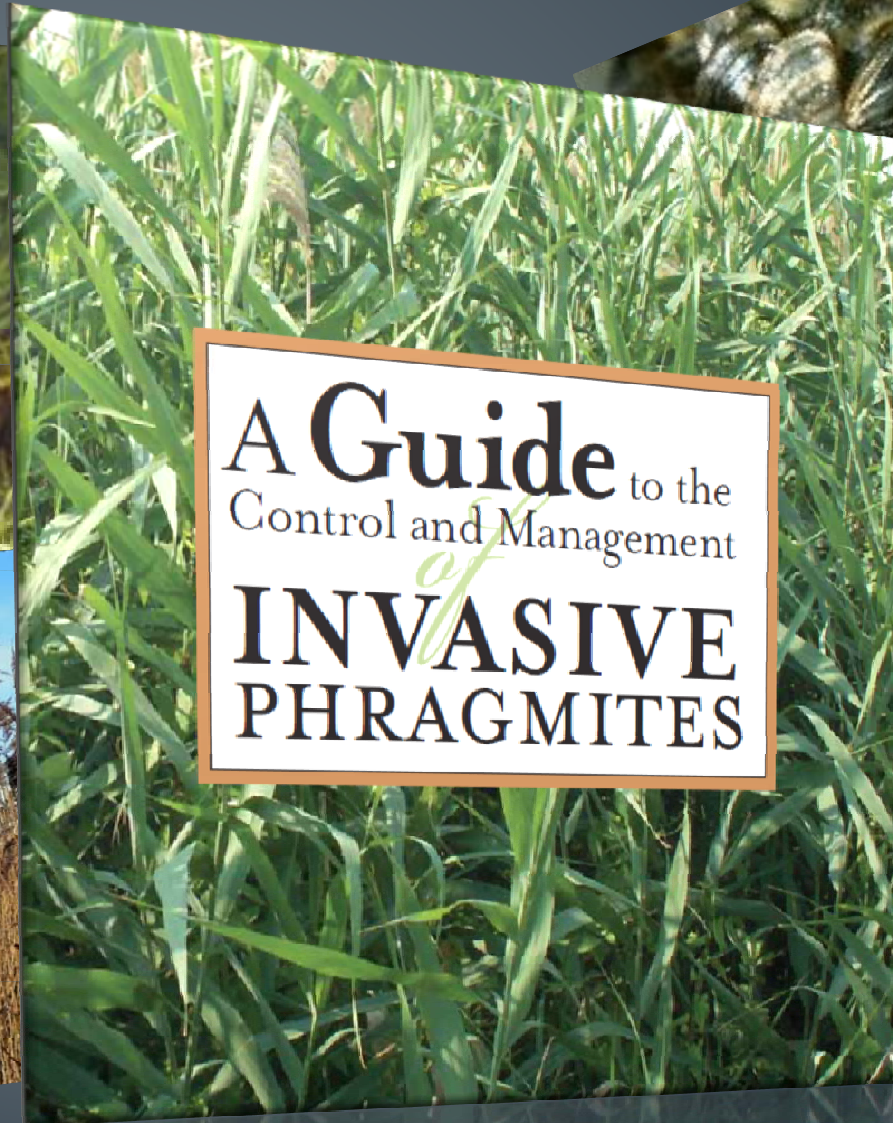
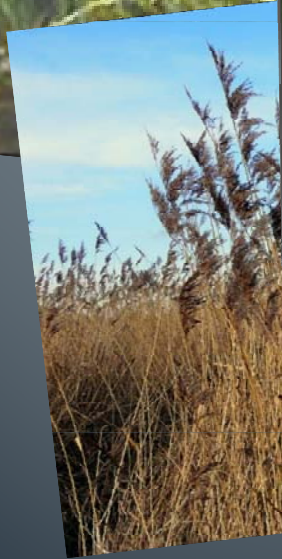
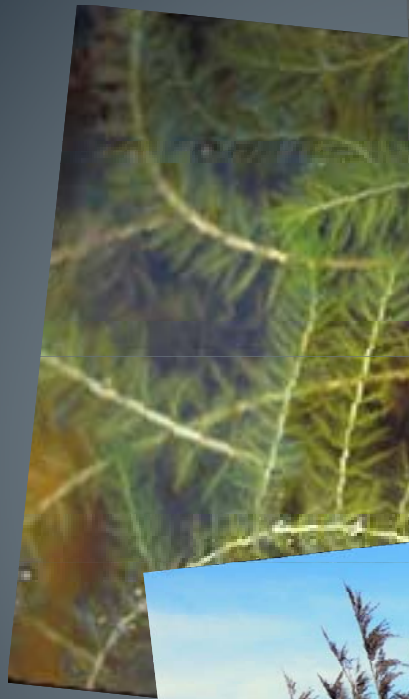
- Nutria

Aquatic Plants

- Parrot feather
- European frogbit
- Flowering rush
- Brazilian elodea
- Water chestnut
- Water hyacinth
- Water lettuce
- Any other unknown invasive aquatic plant

*Pick up a "Watch List" handout for a printed copy of the list and contact information for reporting

Management & Control



A Guide to the
Control and Management
of
**INVASIVE
PHRAGMITES**





Invasive species are NOT everywhere!

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DEQ AIS Website:
www.Michigan.gov/AquaticInvasives

DNR Website:
www.Michigan.gov/InvasiveSpecies