

<u>Aquatic Invasive Species Coordinator - Washington & Waukesha Counties</u>

- AIS Reponse Local Contact
- AIS Monitoring
- Education & Outreach
- Program Implementation CLMN, CBCW,
 Snapshot Day, Project RED, Purple
 Loosestrife Biocontrol



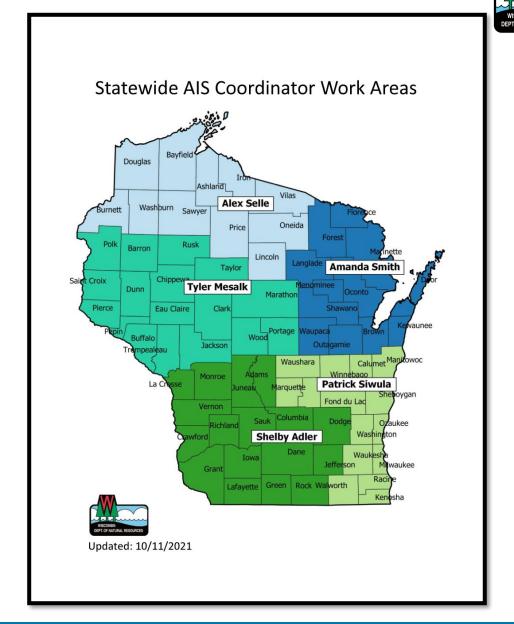


Southeast Region Aquatic Invasive Species (AIS) Biologist

- AIS Response
 - Respond to new AIS findings in or near surface waters
 - High profile / prohibited species not yet present in WI or with low geographic footprint

- AIS Pathways management
 - Organisms in Trade prevent the trade and introduction of regulated species

- Regional Point of Contact (SE)
 - AIS grant administration, technical assistance
 - Monitoring, research, data management
 - Outreach, education





WI Invasive Species Management Plan and Response Framework

1800s-1900s: First introductions of AIS to WI

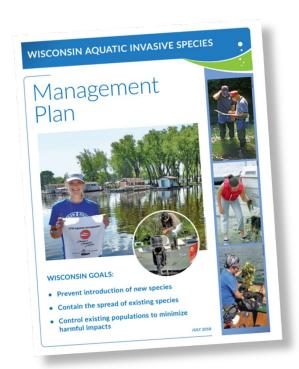
2003: First Statewide AIS Management Plan

2009: Creation of Invasive Species Rule (NR40)

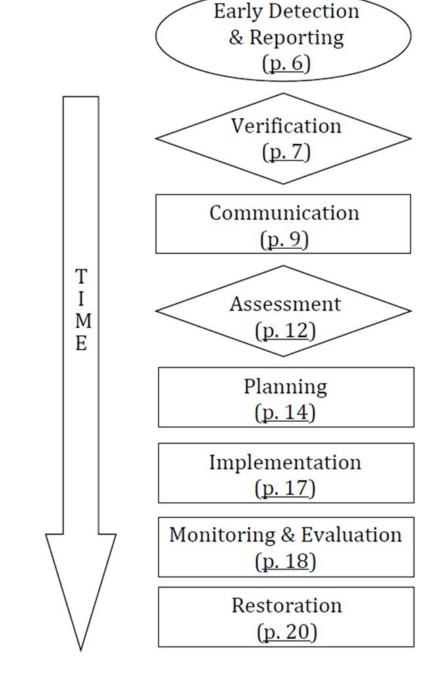
2017-18: Invasive Species Response Framework

2018: Updated Statewide AIS Management Plan

2021: Full-time regional AIS staff throughout WI







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WI AIS Management Plan – Pathways

AQUATIC INVASION PATHWAYS:



Organisms in Trade

- Invasive plants and animals introduced through trade (sell, trade, give away)
- Desirable traits are similar to traits commonly found in invasive species
 - Quick to establish and spread
 - Fast growing
 - Resilient/easy to take care of
- Can be introduced to the environment
 - Unintentional escapes
 - Intentional releases



RIVER REMINDER: Please don't release your aquarium fish into our rivers.

Check out this #OscarFish found in the Burnham Canal: Oscars are native to #SouthAmerica and are not a part of our local ecosystem. Releasing non-native species can harm our waterways and local wildlife.

#ProtectMKERivers #ProtectOurRivers #MKE #Milwaukee #Rivers



















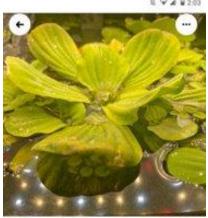
Organisms in Trade



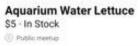


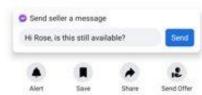




















WI AIS Management Plan – Pathways

AQUATIC INVASION PATHWAYS:



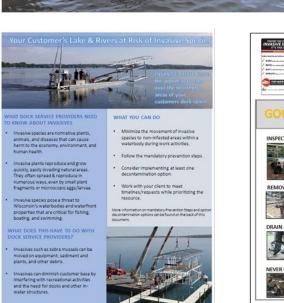
Recreational Activities and Service Providers Dock Service Providers (DSPs)





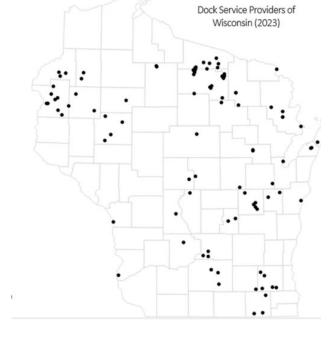












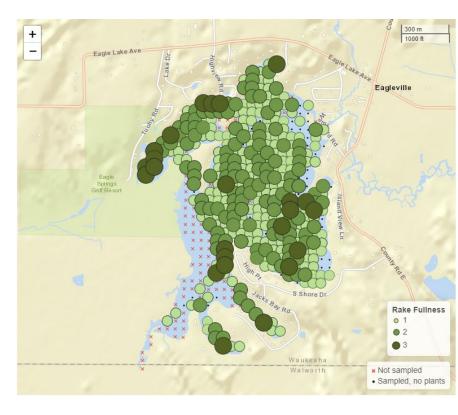
- DSP Database; Targeted outreach letters
- Social Science Survey
- Decon kits, 1:1 training module





Native Plants Documented in Eagle Spring Lake

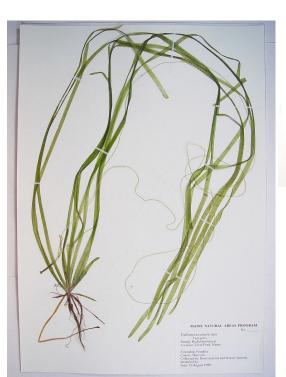
Bullhead Pond Lily	Hard-Stem Bulrush	Small Bladderwort
Bur-Reed	Illinois Pondweed	Soft-Stem Bulrush
Common Bladderwort	Leafy Pondweed	Southern Naiad
Common Waterweed	Long-Leaf Pondweed	Variable-Leaf Pondweed
Coontail	Needle Spikerush	Various-Leaved Water-Milfoil
Chara	Nitella	Water Bulrush
Creeping Bladderwort	Northern Water-Milfoil	Water Star-Grass
Flat-Stem Pondweed	Richardson's Pondweed	Water Celery
Floating Leaf Pondweed	Sago Pondweed	White Water Lily
Forked Nitella	Slender Naiad	Whorled Water-Milfoil



30+ species



Native Plants Documented in Eagle Spring Lake



Water Celery



Sago Pondweed



Chara



Illinois Pondweed



Common Bladderwort

AIS Documented in Eagle Spring Lake





Zebra Mussel (2005)



Hybrid Water-Milfoil (2019)



Eurasian Water-Milfoil (1994)



Starry Stonewort (2024)



Corbicula (2013)





Purple Loosestrife (2010)



Curly-Leaf Pondweed (2005)

Eurasian Water-Milfoil *Myriophyllum spicatum*





Coontail

Ceratophyllum demersum





Northern Watermilfoil *Myriophyllum sibiricum*





Whorled Watermilfoil

Myriophyllum verticillatum





Curly Leaf Pondweed Look-alikes



Curly-Leaf Pondweed (Potamogeton crispus)





Clasping Leaf Pondweed (Potamogeton Richardsonii)

Illinois Pondweed (Potamogeton illinoensis)











White Stem Pondweed (2013) (Potamogeton praelongus)

Variable Pondweed (Potamogeton gramineus)

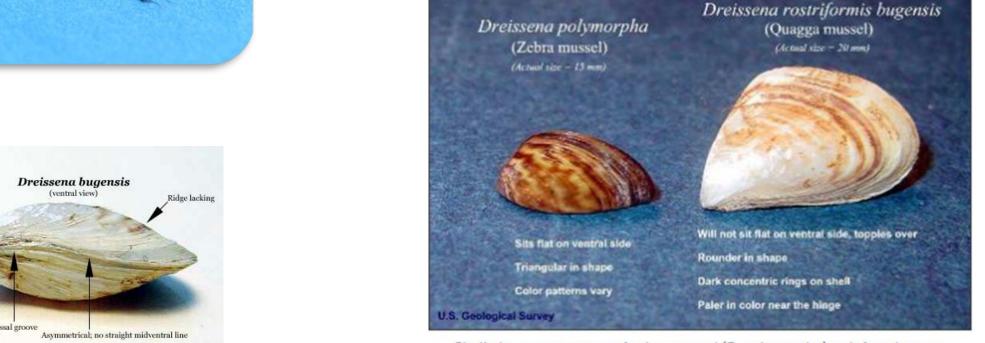


Dreissenid mussels

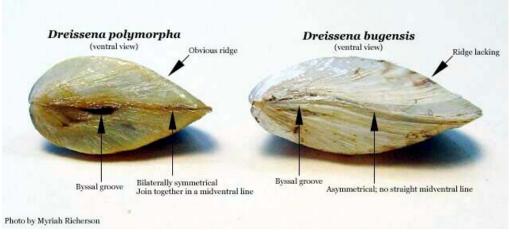








Shell shape comparison of zebra mussel (D. polymorpha) on left and quagga mussel (D. bugensis) on right. USGS



Dreissenid Mussels in WI











Starry Stonewort

- Invasive Macroalgae from Eurasia (not a true plant)
 - Requires high concentrations of calcium
- Spreads vegetatively as well as via small reproductive structures called bulbils
- Present in 33 other lakes in WI and Lake Michigan / Green Bay

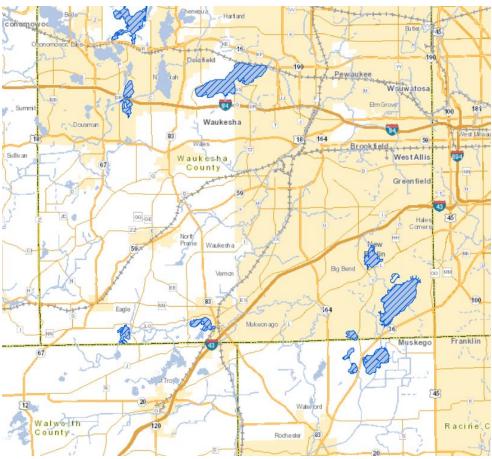














Muskgrass

vs. Starry Stonewort





Native charophytes

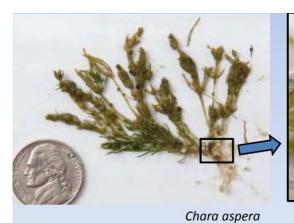






Lychnothamnus barbatus 'Bearded Stonewort'





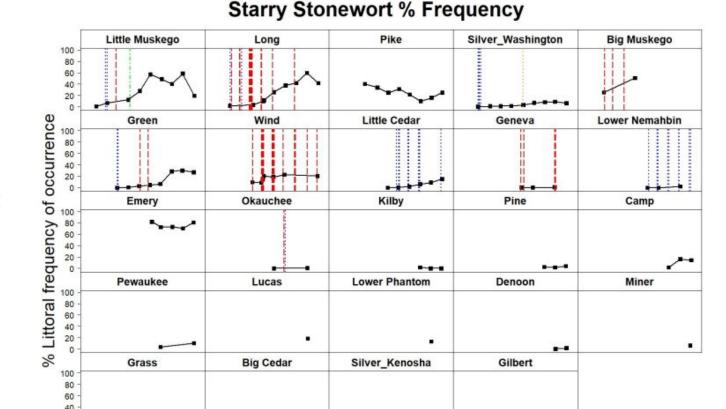




Starry Stonewort in WI



- Thus far, no management techniques have been effective long-term in Wisconsin lakes
 - Some management attempts have increased SSW FOO or height of patches
- Pike Lake, Kilby Lake → no active SSW management
- Ideal scenario → SSW integrates into plant community without causing nuisance conditions
- Current WDNR policy → focus on monitoring, containment and prevention
 - Only attempt management in certain situations



Year

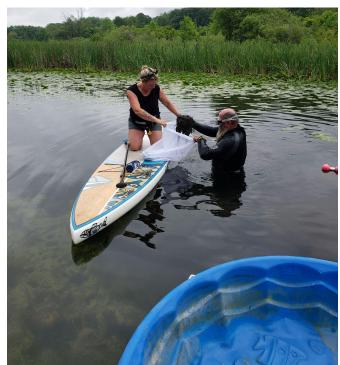






















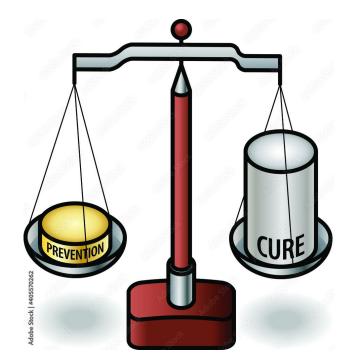








The Big Picture

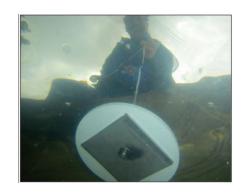














Maintaining and restoring our waters and landscapes can reduce impacts even when we don't have other management options to an invasive species.

It Takes a Village

- Wisconsin Lakes Partnership
 - DNR, UW Extension, Citizens
- Citizen / Volunteer Programs
 - Citizen Lake Monitoring Network
 - Clean Boats Clean Waters
 - Snapshot Day
 - Project RED
 - Purple Loosestrife Biocontrol
 - WAV monitoring
- Over half of WI AIS monitoring data comes from citizen programs!
- Lake Monitoring and Protection Network (Amanda Schmitz, Waukesha County)





WAUKESHA

COUNTY





WISCONSIN LAKES







WI AIS Partnership







WISCONSIN

DEPT. OF NATURAL RESOURCES



