

Wisconsin Lutheran College 2025 Activities

- Scuba Videography
- Fish Surveys (forage and game fish)
- Dissolved oxygen, pH, temperature profiles (spring, summer, fall)
- Zooplankton analysis
- Vegetation surveys
- Eurasian water milfoil removal

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WISCONSIN
LUTHERAN COLLEGE

Video: “Beaver Lake’s Summer Strata”



<https://www.youtube.com/watch?v=jGh754IKX3I>

Fish: The usual suspects (and a very large carp)

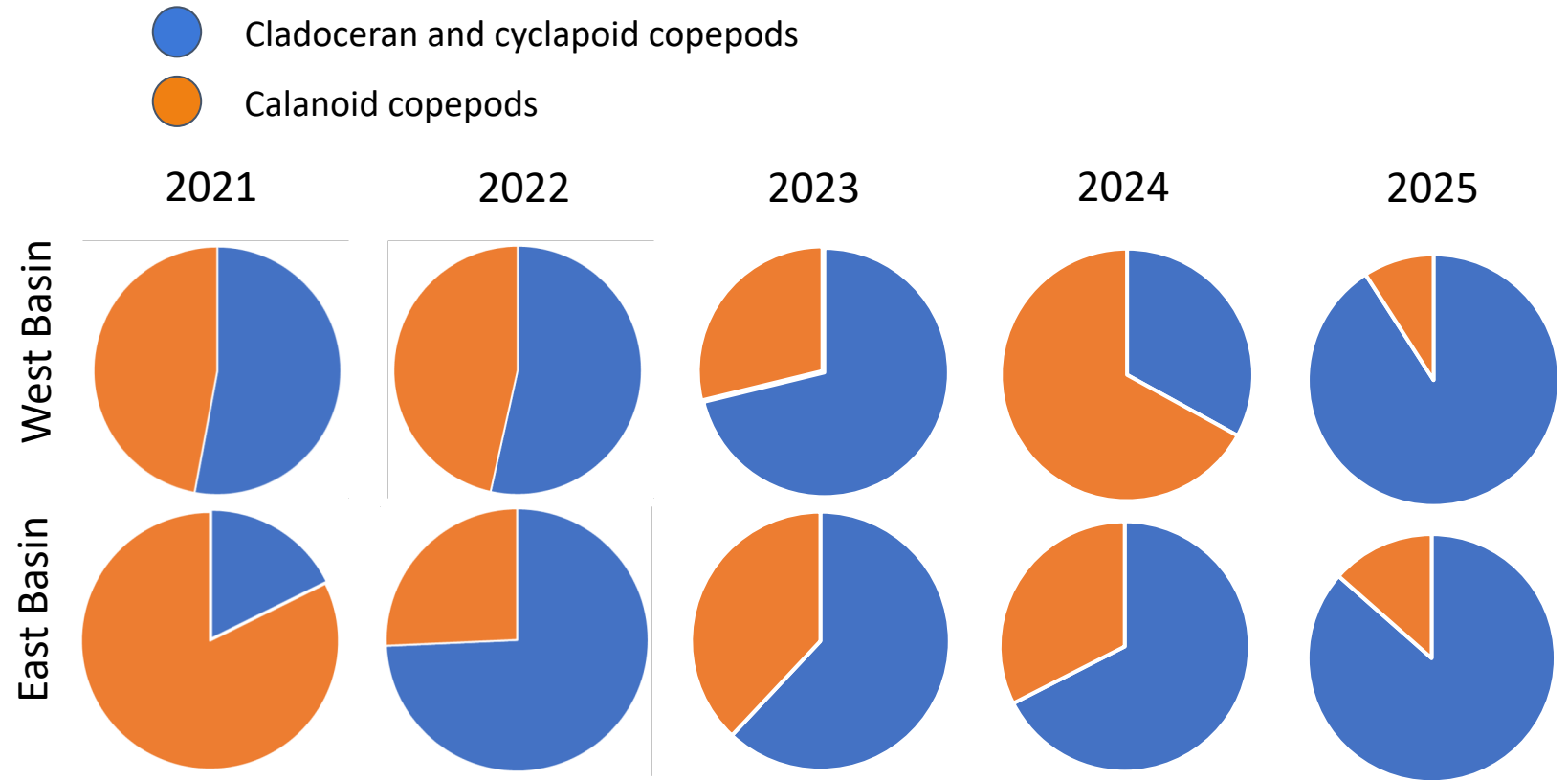


Fyke net fish surveys					
Yearly Totals	2021	2022	2023	2024	2025
Bluegill	691	745	863	82	493
Rock Bass	15	12	26	5	22
Pumpkinseed	1	1	2	1	0
Green Sunfish	13	19	6	6	18
Longnose Gar	15	4	6	9	1
Largemouth Bass	31	11	12	3	8
Smallmouth Bass	13	13	1	2	0
Walleye	0	0	0	2	0
Yellow Bullhead	0	0	0	1	1
Northern Pike	0	0	0	1	1
Carp	0	0	0	0	1

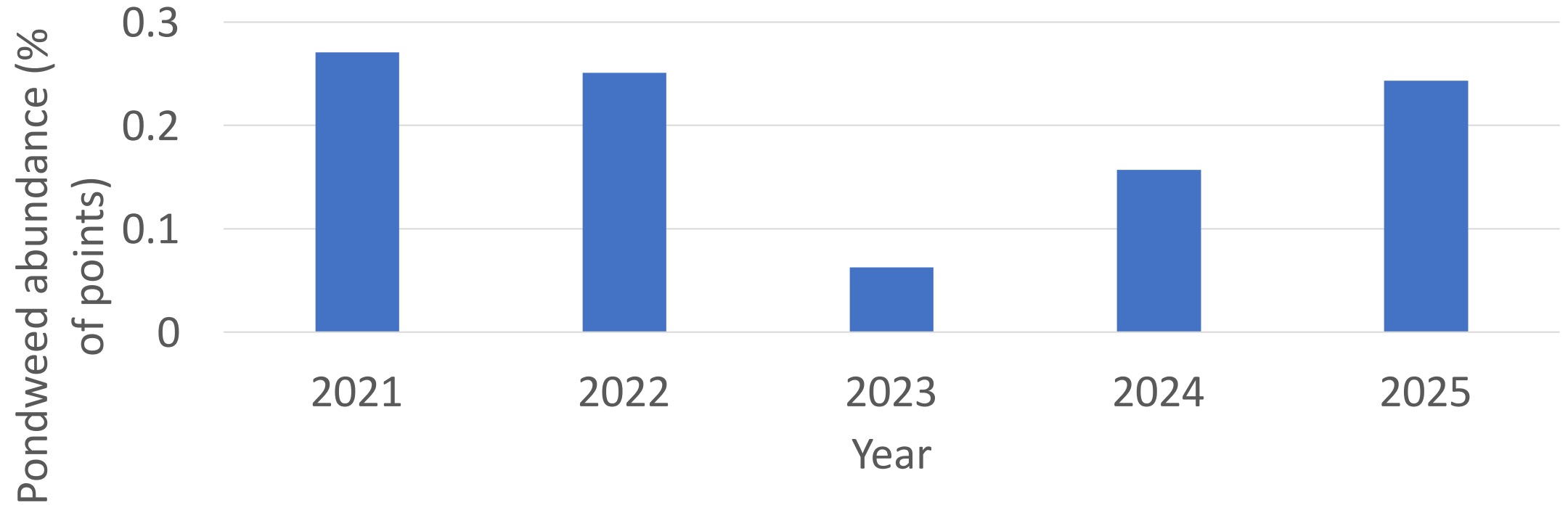
Seine net fish surveys					
Yearly Totals	2021	2022	2023	2024	2025
Bluntnose Minnow	383	321	289	46	48
Brook Silverside	140	40	2	12	1
Sand Shiner	299	82	81	2	24
Rainbow Darter	1	9	5	3	0
Iowa Darter	0	0	1	1	0
Large Mouth Bass	0	0	0	25	10
Bluegill	0	0	0	4	20
Small Mouth Bass	0	0	0	9	5
Johnny Darter	0	0	0	1	0
Green Sunfish	0	0	0	0	1

Zooplankton: Possible indication of eutrophication

Cladoceran and cyclapoid abundance correlates with higher nutrient loads

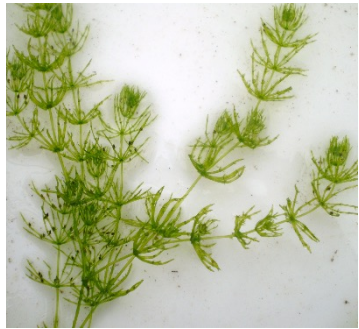


Vegetation: Native pondweed species dipped but have rebounded

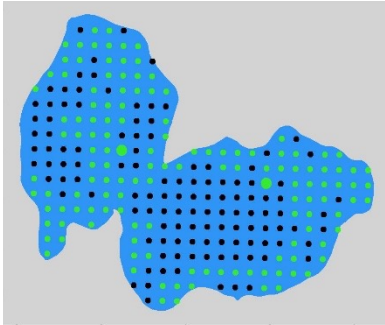


Vegetation: Decrease in slender naiad since ~2022

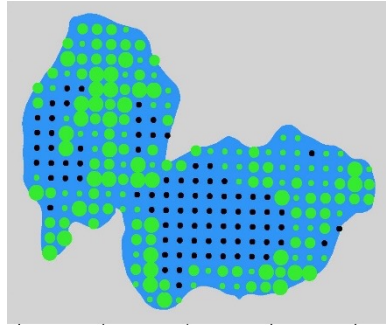
Chara



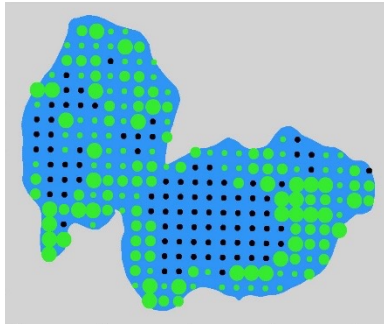
2015



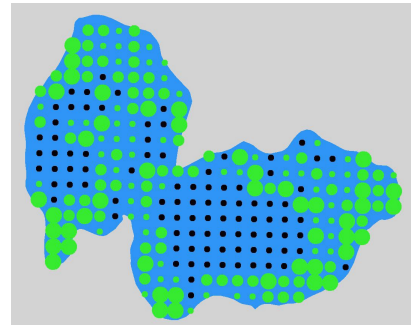
2021



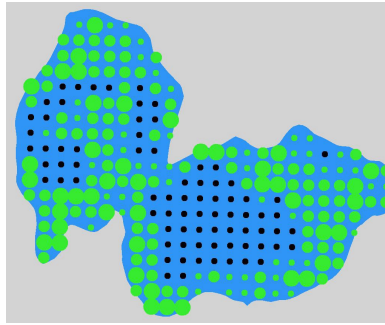
2023



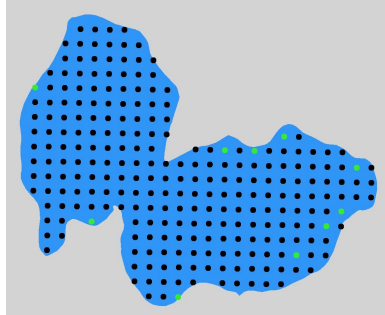
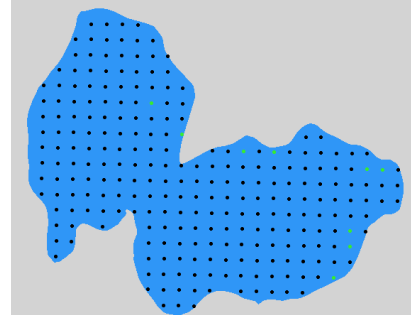
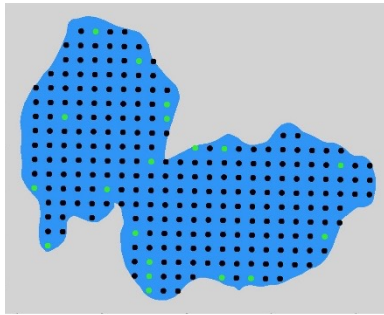
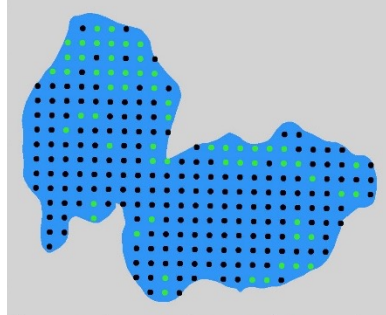
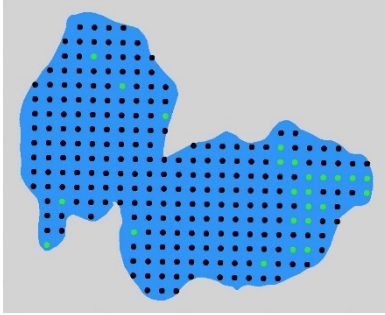
2024



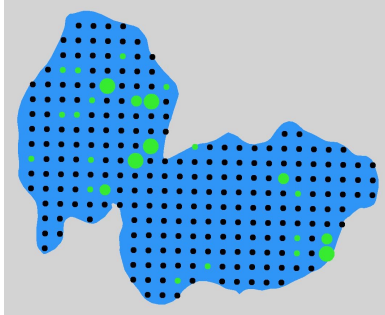
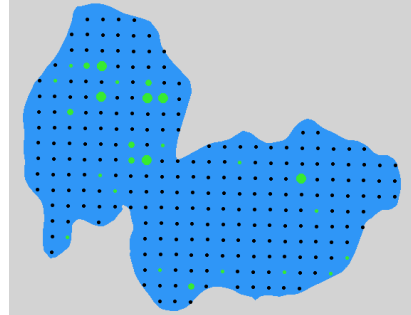
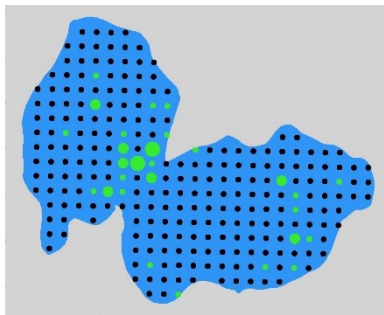
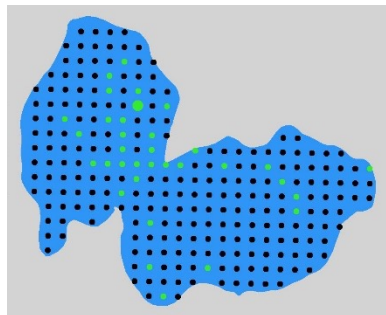
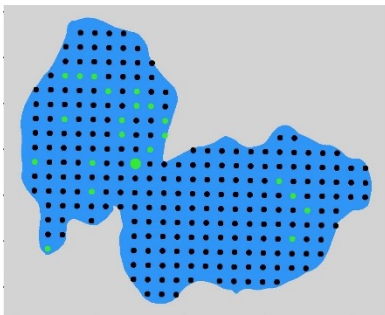
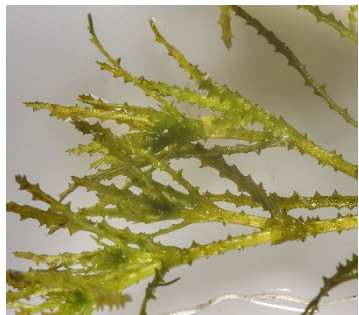
2025



Slender naiad

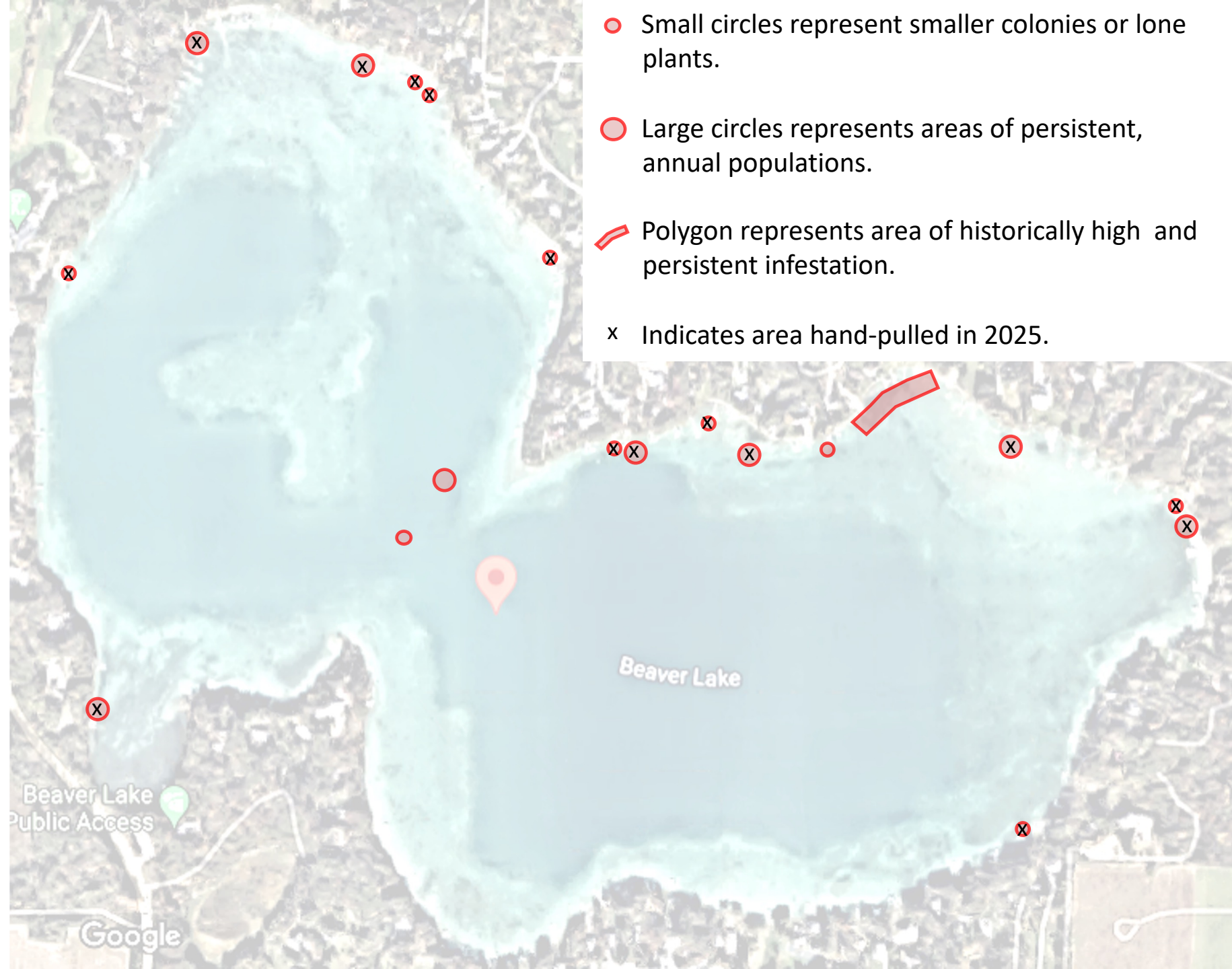


Spiny naiad



Eurasian water milfoil removal

- Most near-shore locations pulled
- Persistent annual populations
- Deep locations act as refuge populations
- Invasive potential, or much needed structure?



Starry stonewort found on Pine Lake



<https://www.dnr.state.mn.us/invasives/aquaticplants/starrystonewort/index.html>

What can you do?

- Clean anchors immediately
- Do not move sediment or plants

Purple Loosestrife on Beaver Lake



Photo: S. Kelly Kearns;
<https://dnr.wisconsin.gov/topic/Invasives/fact/PurpleLoosestrife>

What can you do?

- Learn to identify
- Treat if on your property
- Do not let it go to seed!

Eurasian water milfoil

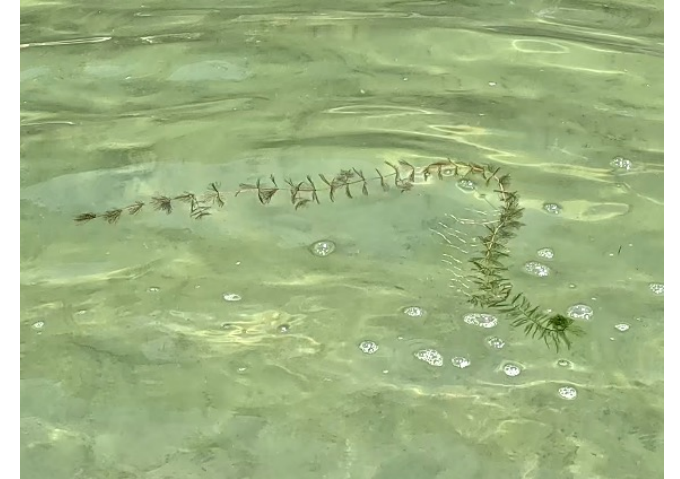


Photo: Ethan Degner

What can you do?

- Pull floating fragments
- If hand-pulling, get roots and all fragments

Keeping the natives = combatting invasives