



Ohio Hydrilla Update

Mark Warman

Upper Midwest Invasive Species Conference
Managing Milfoils and Eradicating Hydrilla





Hydrilla imagining, Angela Oster

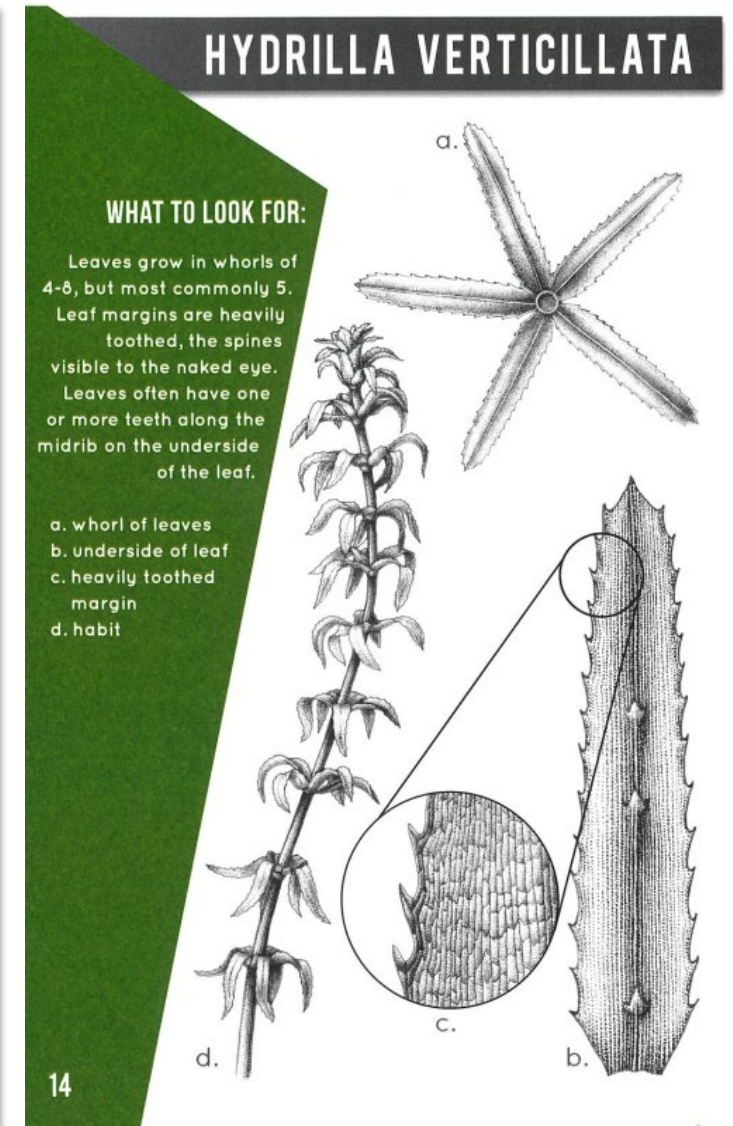


Hydrilla imagining, Jeff Reibe

Start of Cleveland Metroparks Early Detection & Rapid Response Program



Hydrilla, West Creek Reservation, Parma, Ohio 2011



Melissa Logies, Illustrator

Successful Eradication Efforts

2011 - 2018



Six waterbodies
Cleveland Metroparks



Chemical
Fluridone products, mostly



Monitoring
Tuber bank and vegetation

Survey Methods

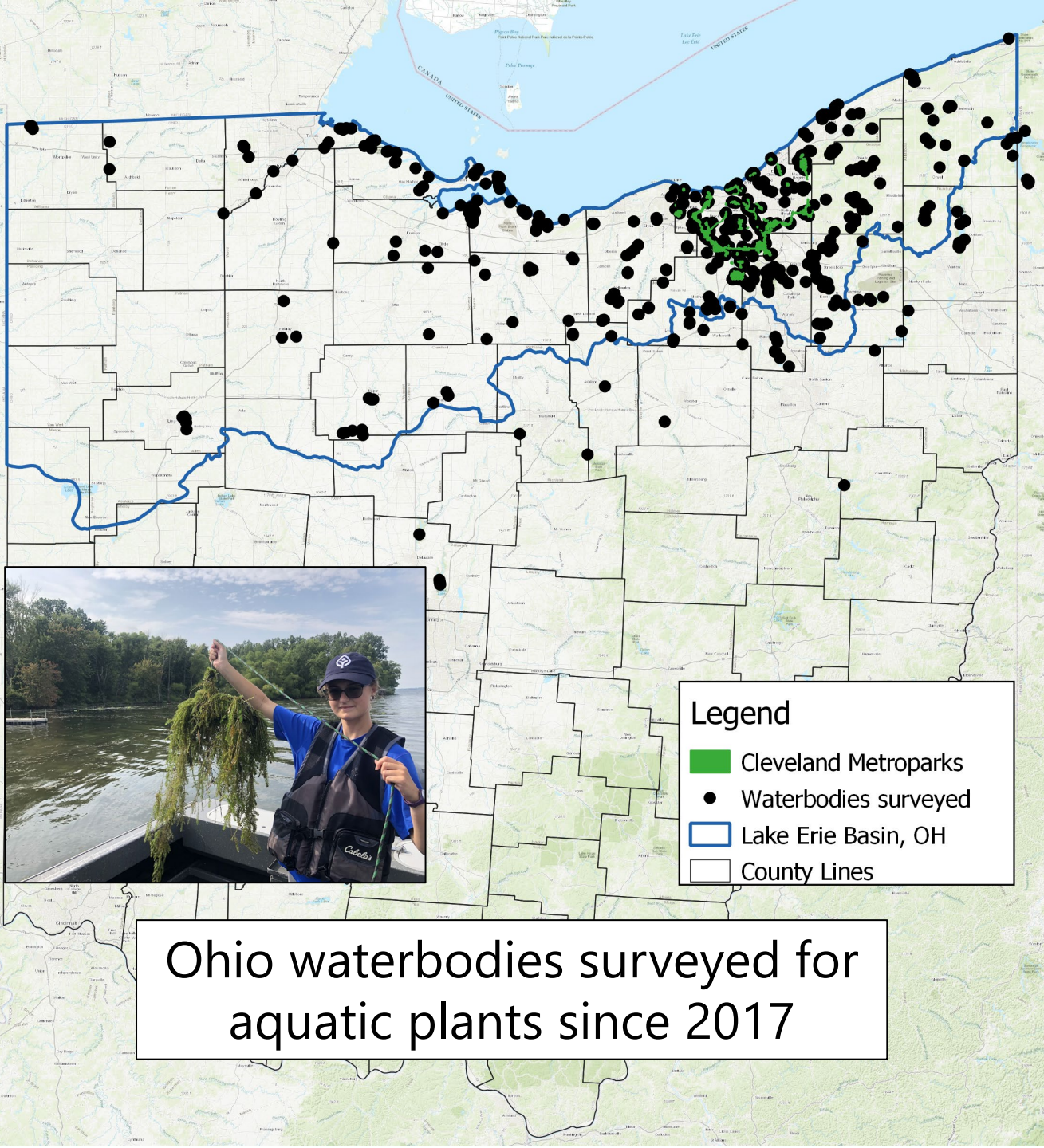
~525 waterbodies surveyed since 2017

Targeted meander surveys

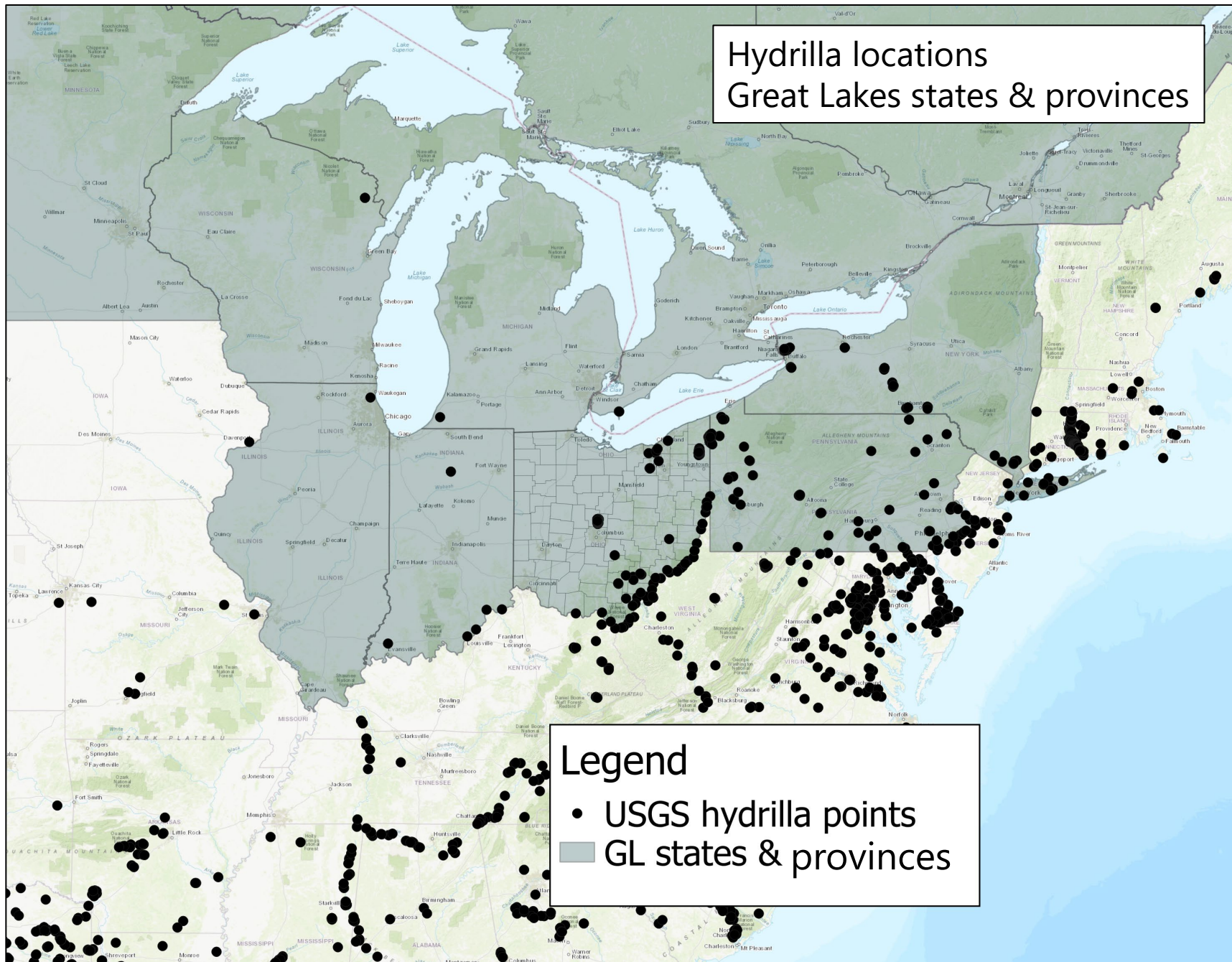
Prioritize places of human interaction

Create species inventories

Rake tosses, kayaks, boats, waders



Hydrilla locations Great Lakes states & provinces

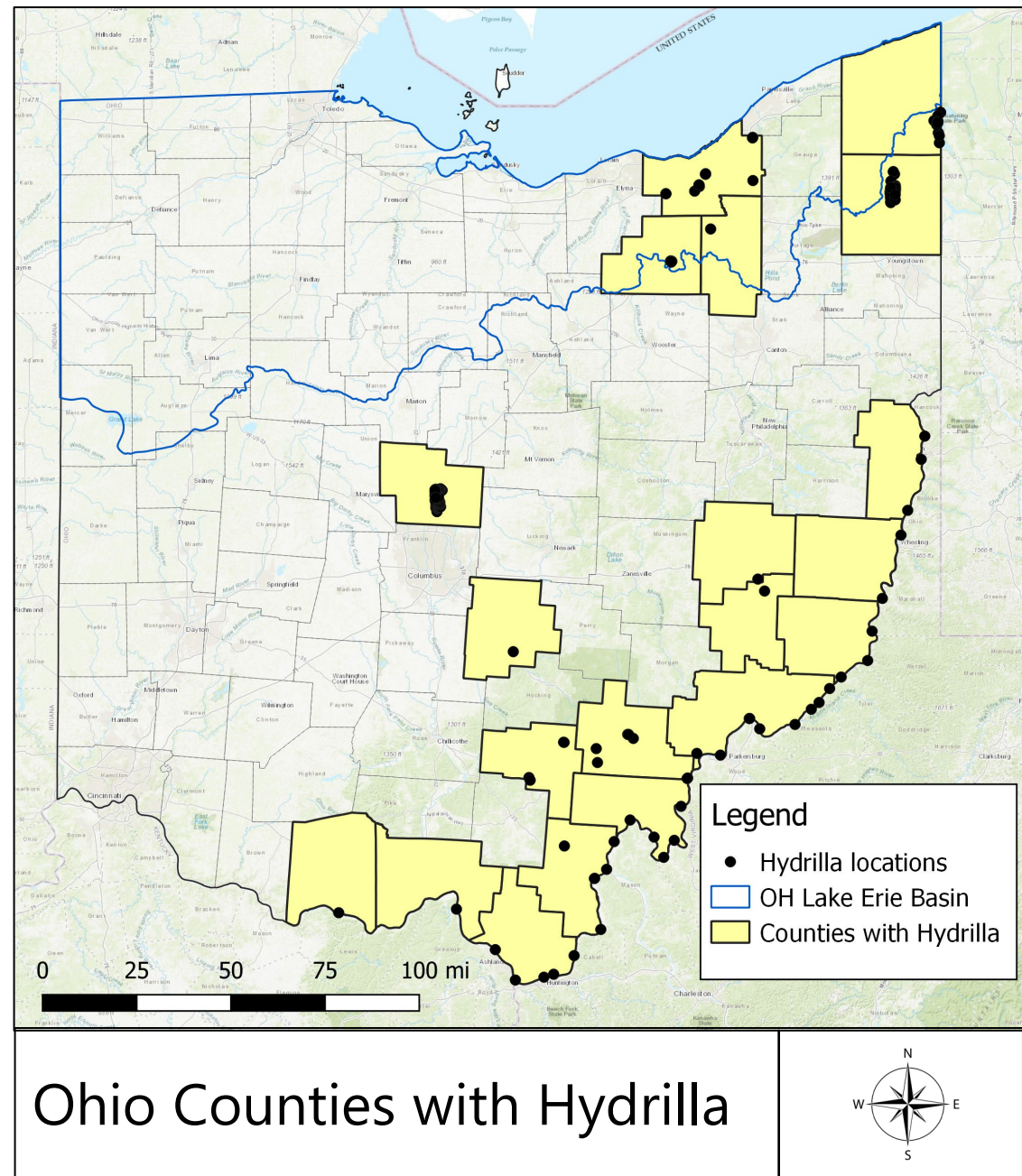


28 waterbodies

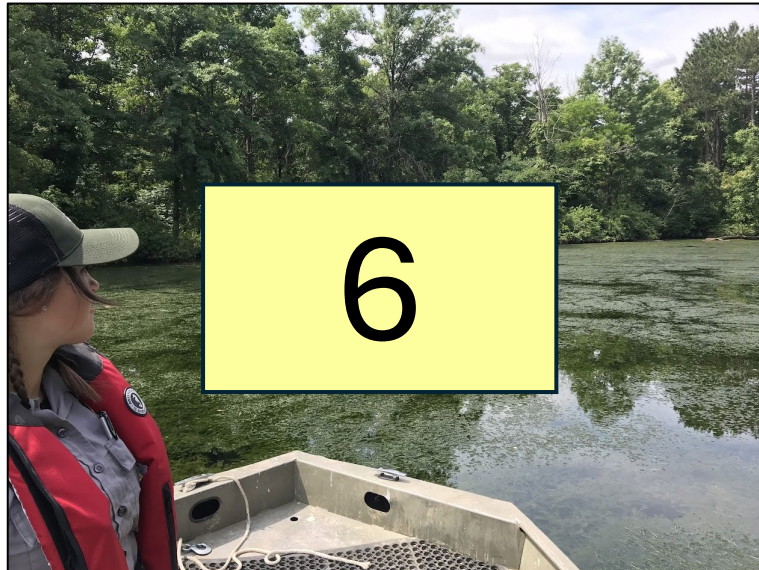
20 counties

10 state parks

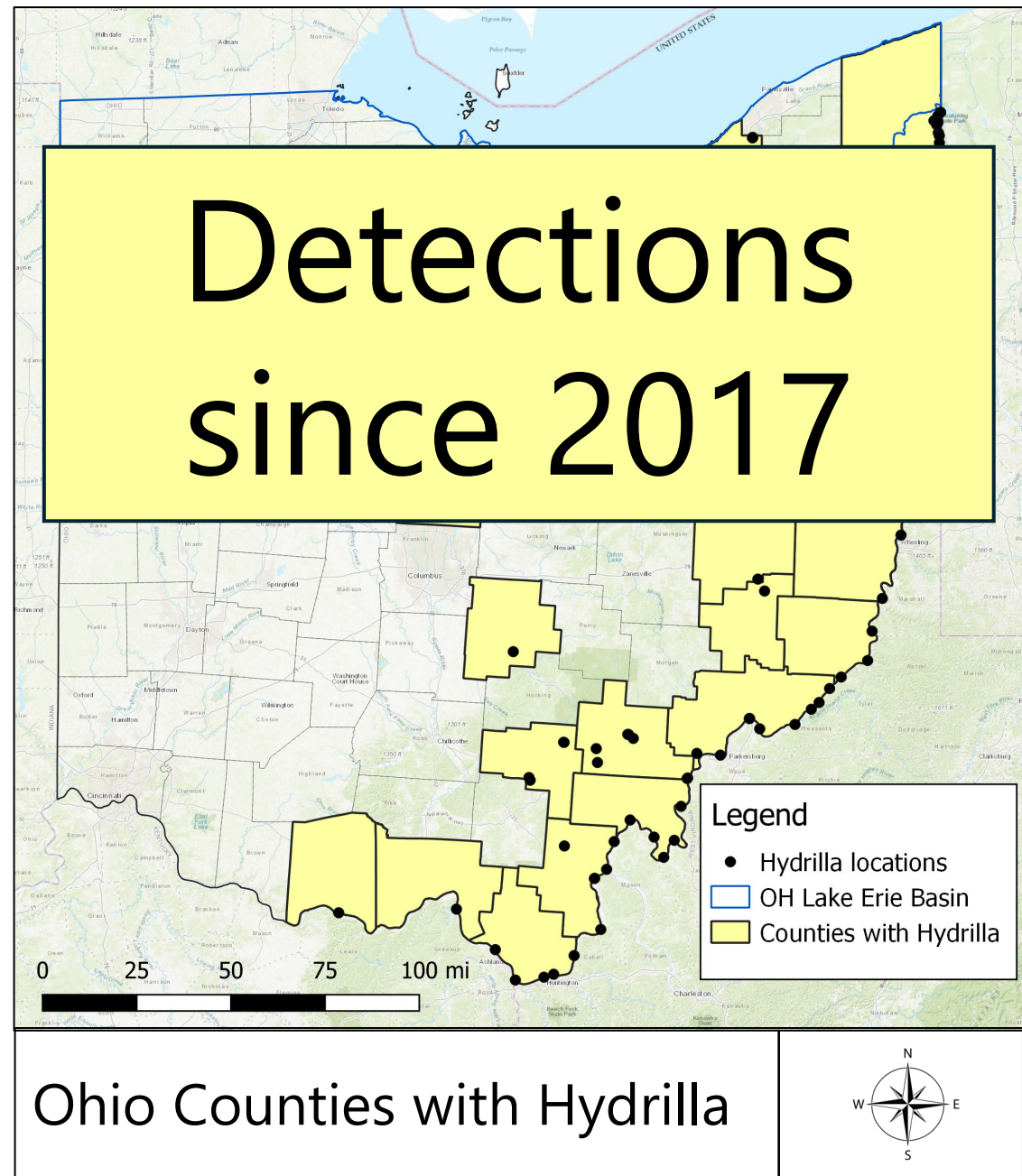
Large public waterbodies
near Lake Erie drainage

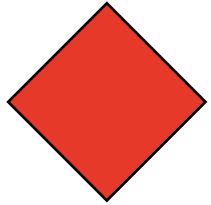


Private ponds



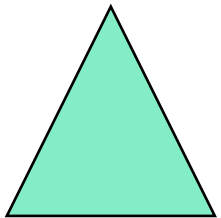
State parks



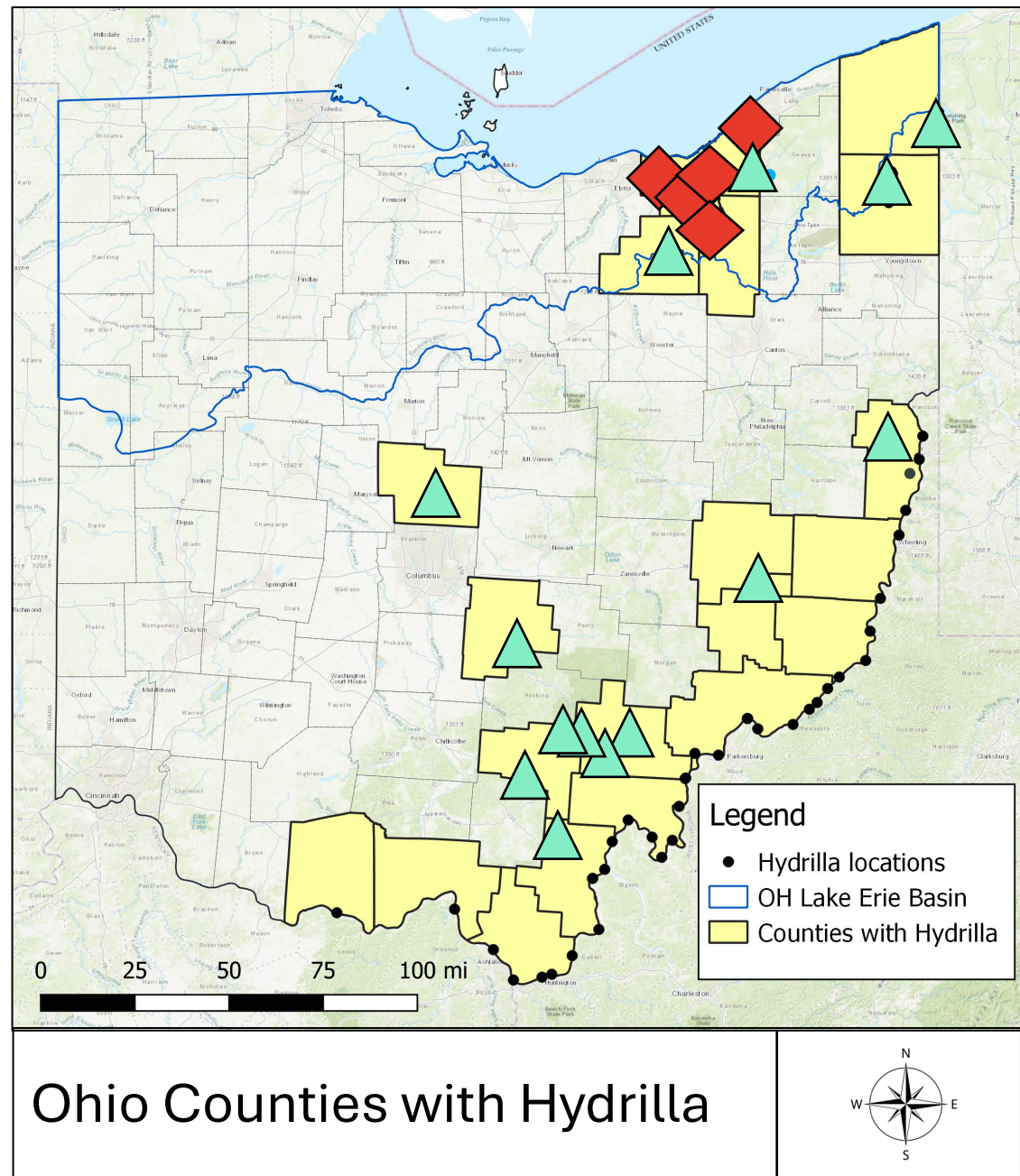


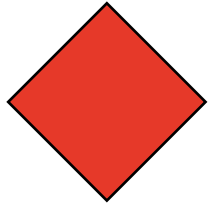
No longer
detectable

8 years since detection
Tuber bank + veg. monitoring



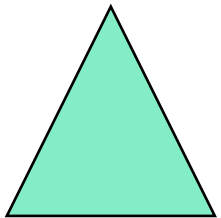
Under
management



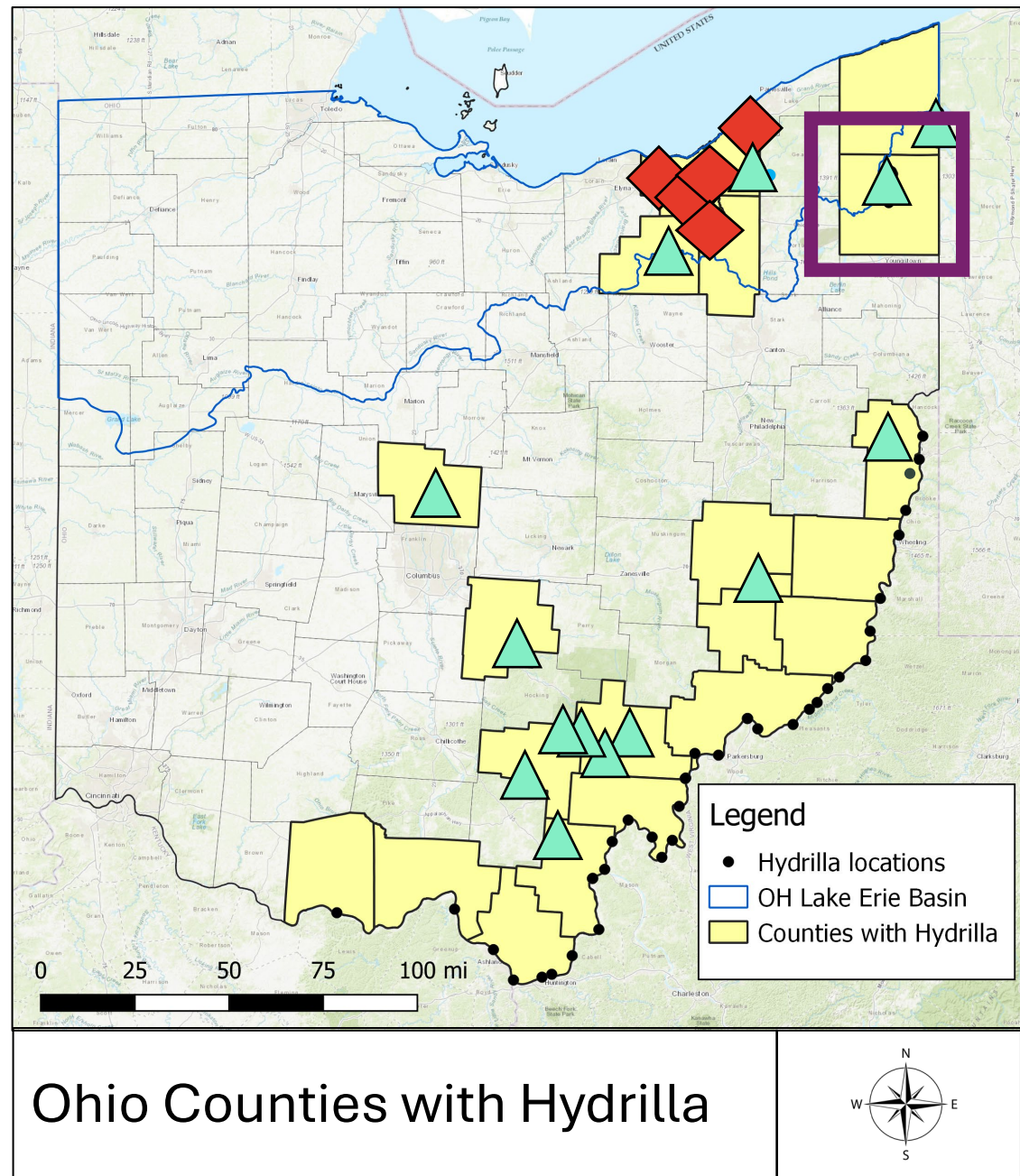


No longer
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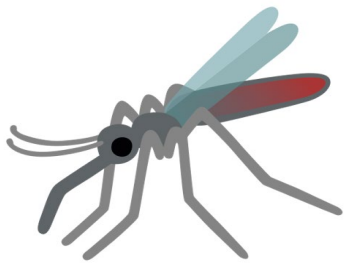
8 years since detection
Tuber bank + veg. monitoring



Under
management



Mosquito
Lake
State
Park



Lake, Trumbull Co. Ohio

7,000 acres surface water

10 miles long

Drinking water for ~70,000

Hydrilla discovered in 2021



Management

Fluridone management at
6 parts per billion (ppb) target

Year total of 90-125 ppb

2023 partial funding

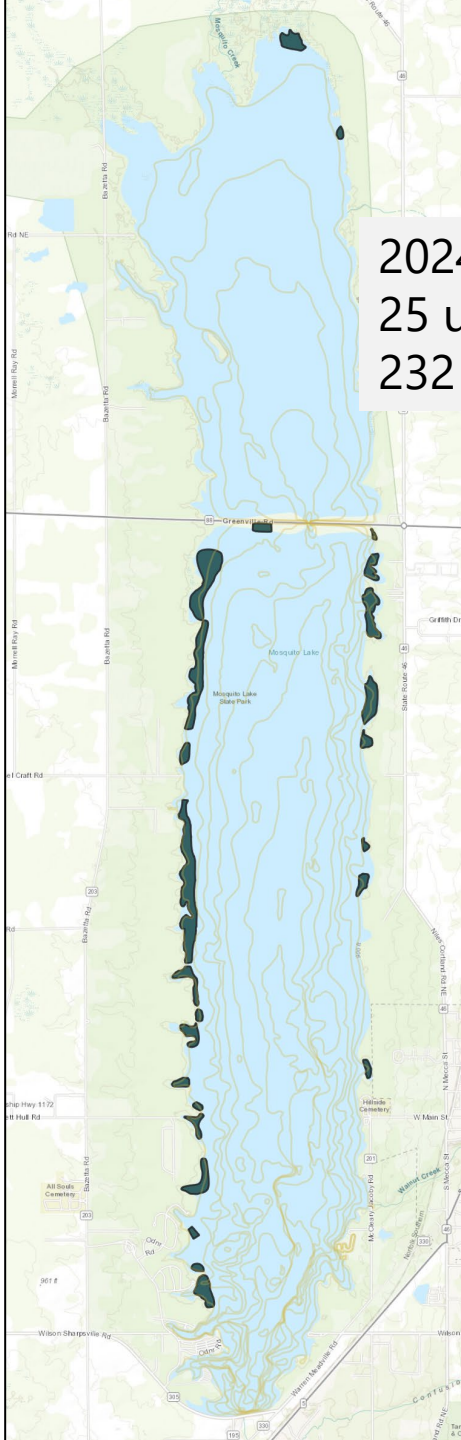
Two years fully funded (2022, 2024)



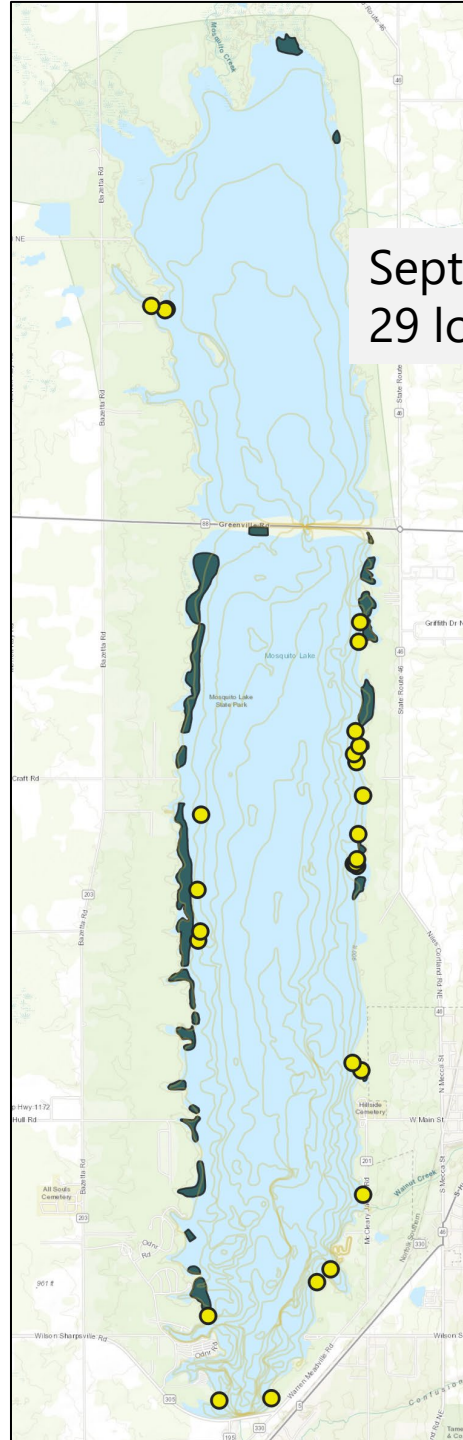
Bleached hydrilla vegetation



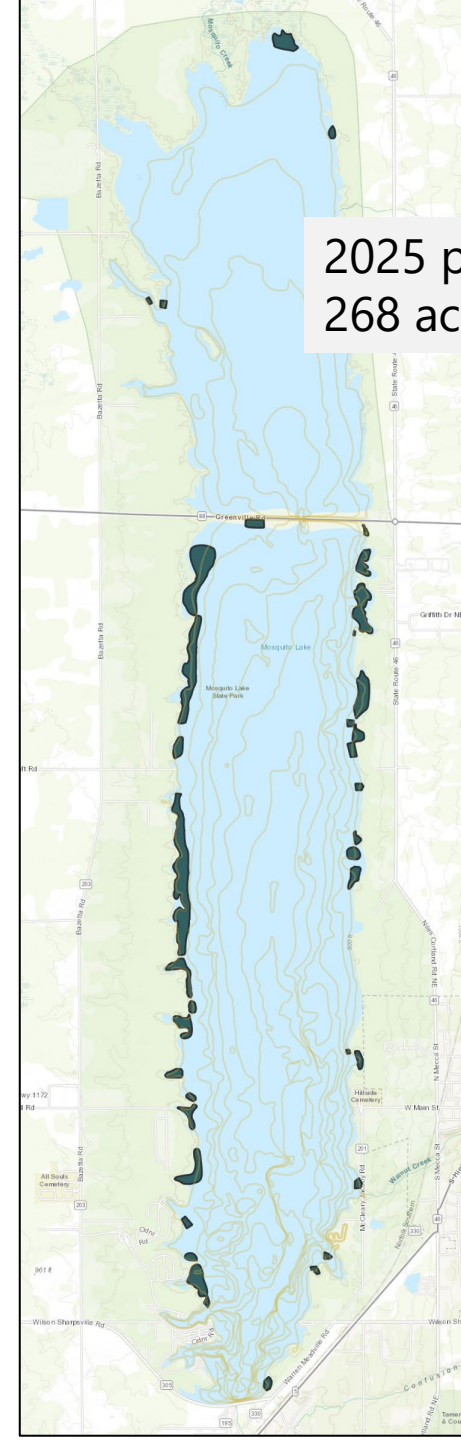
Forced air applicator, Vortex TR Aquatic model



2024
25 units
232 acres



Sept. survey
29 locations



2025 proposed
268 acres

MORNING AT
MOSQUITO CREEK LAKE
FRIDAY AUGUST 2ND @ 8:30 AM

You're Invited

Join a group of community and regional leaders for a purposeful morning at the picturesque Mosquito Creek Lake!



Stakeholder meeting organized by County Tourism Bureau

LOCAL NEWS

Funding to remove invasive species in Mosquito Lake is approved

by: Nadine Grimley

Posted: Apr 10, 2024 / 06:09 PM EDT

Updated: Apr 10, 2024 / 06:09 PM EDT

Saturday, August 3, 2024

Battle Rages to Rid Mosquito Lake of Invasive Plant

CORTLAND, Ohio – Mark Warman, an aquatic invasive species expert, was inspecting Pymatuning Lake by helicopter one day in 2021.

Since he and his crew had some flight time remaining, they decided to swing over to Mosquito Lake and give it a look.

Prevention

Signs posted at lake access points

Host public meetings

Great Lakes Landing Blitz tabling events

Detection and decon. kits to partners



Prevention

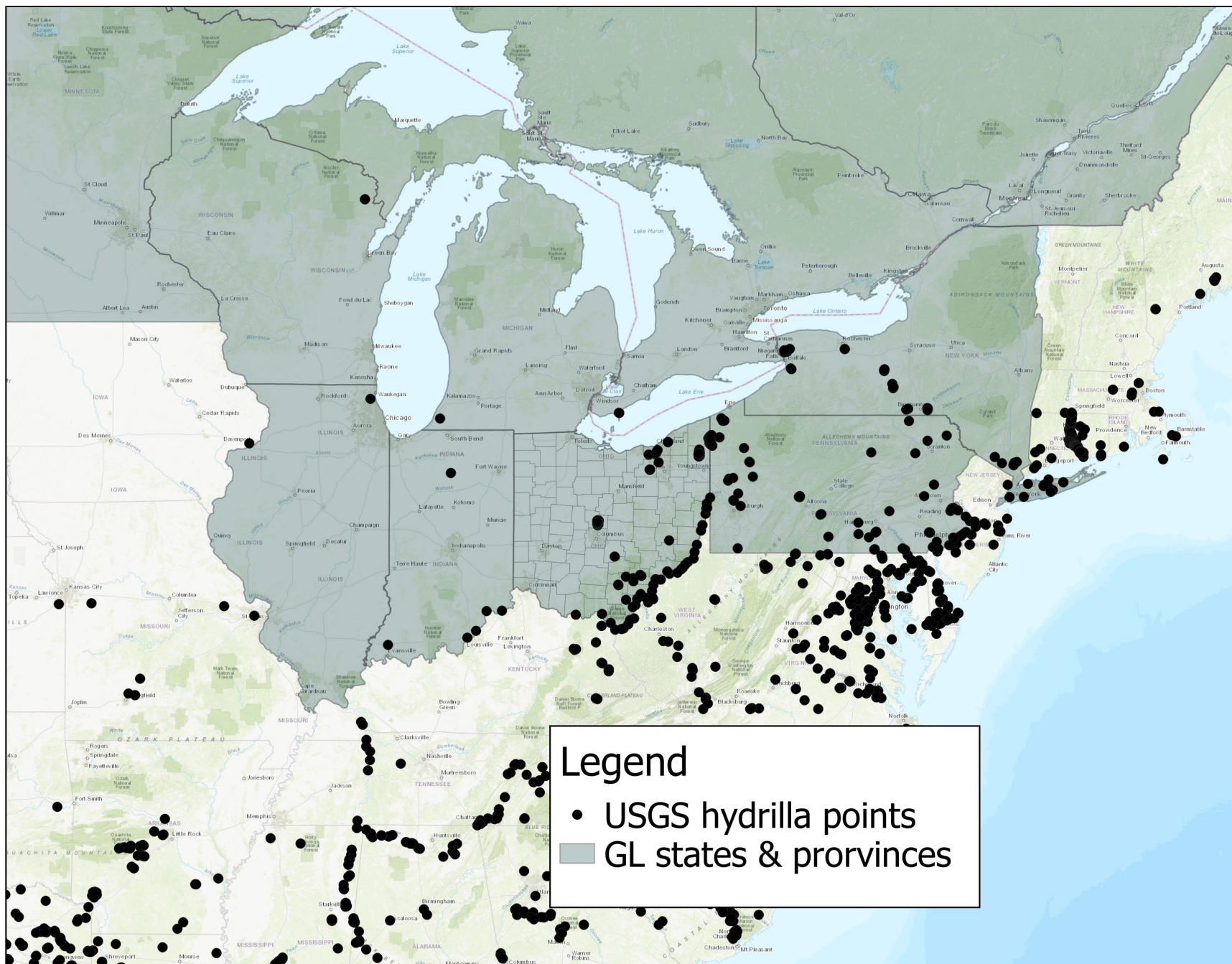
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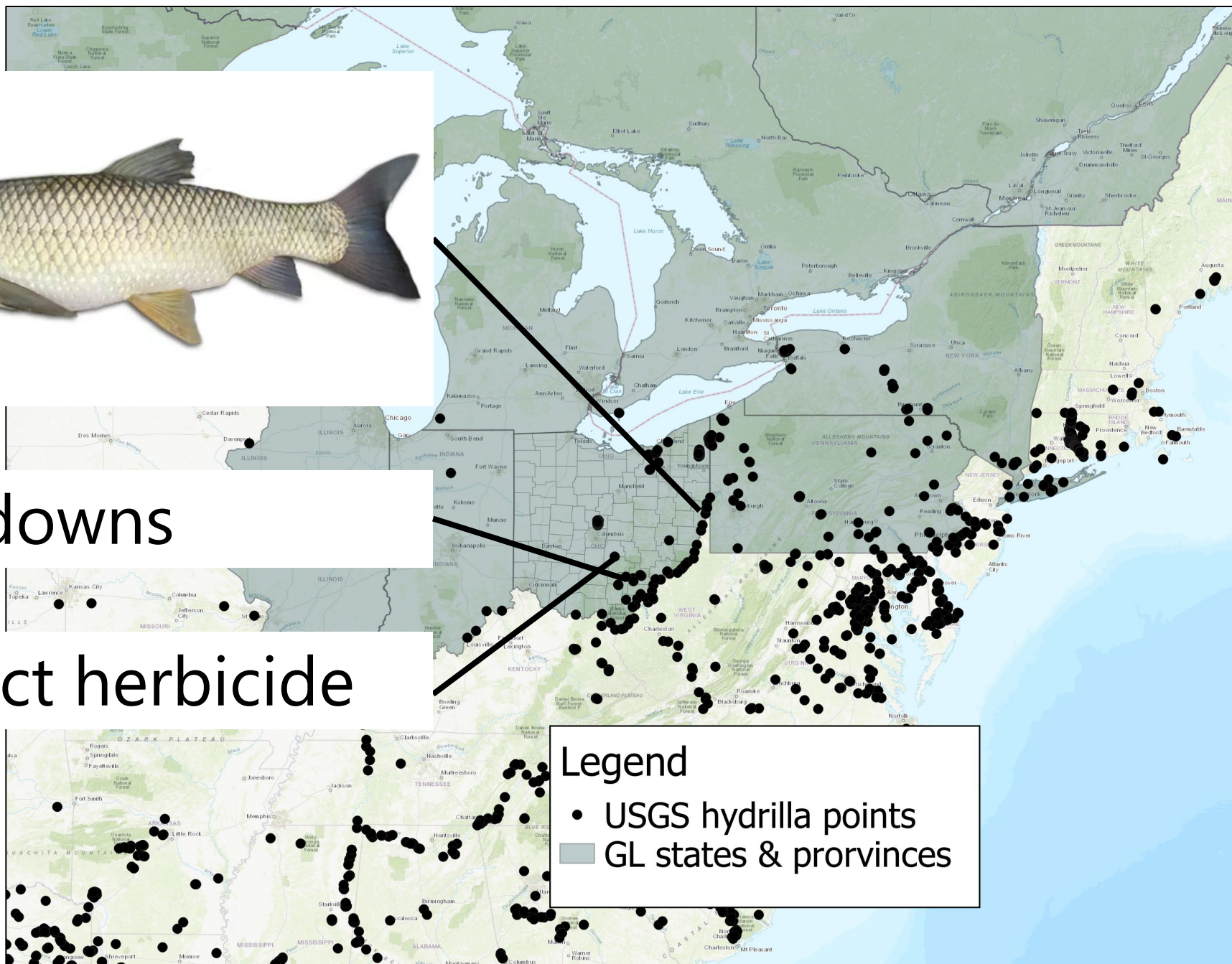






Drawdowns

Contact herbicide



Ohio

... has eradicated hydrilla at waterbodies <20 acres

... is committed to containing hydrilla

... has employed multiple methods for controlling hydrilla

... could invest in more robust prevention

... has detected rare, native plants through this project

... is interested in interjurisdictional cooperation



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