

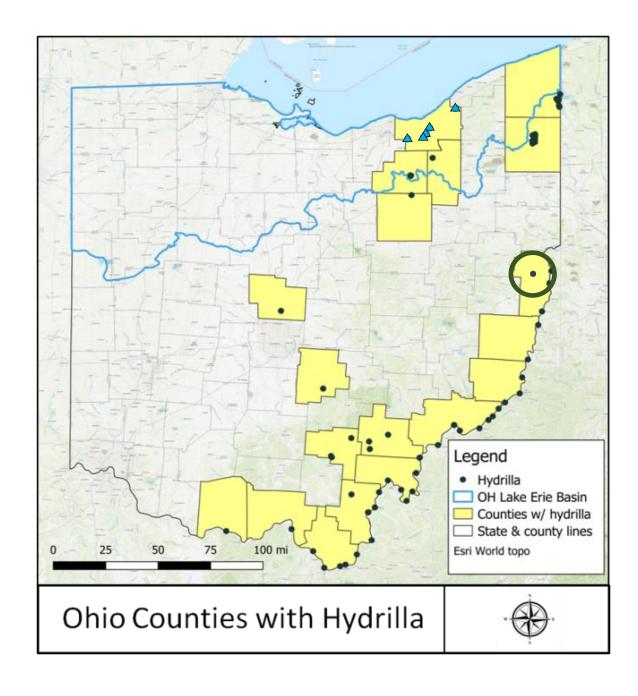
### Hydrilla in Ohio



New in 2022



No longer detectable



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New in 2022



No longer detectable

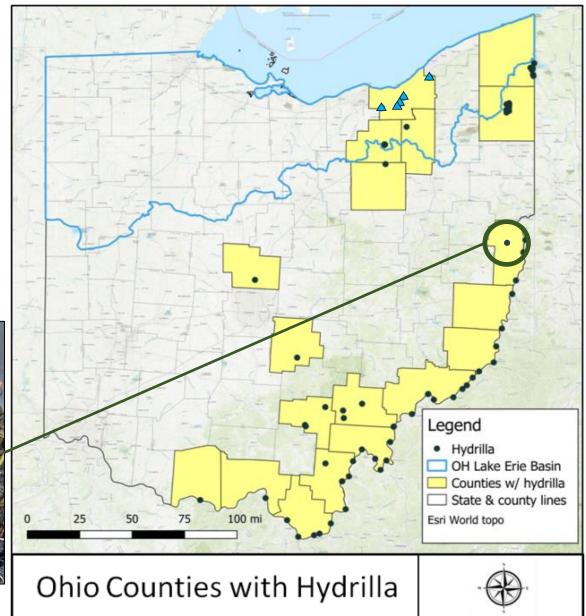
Jefferson Lake State Park





Tubers
Serrated leaf edges

Photos courtesy of Aqua Doc



### Hydrilla in Ohio



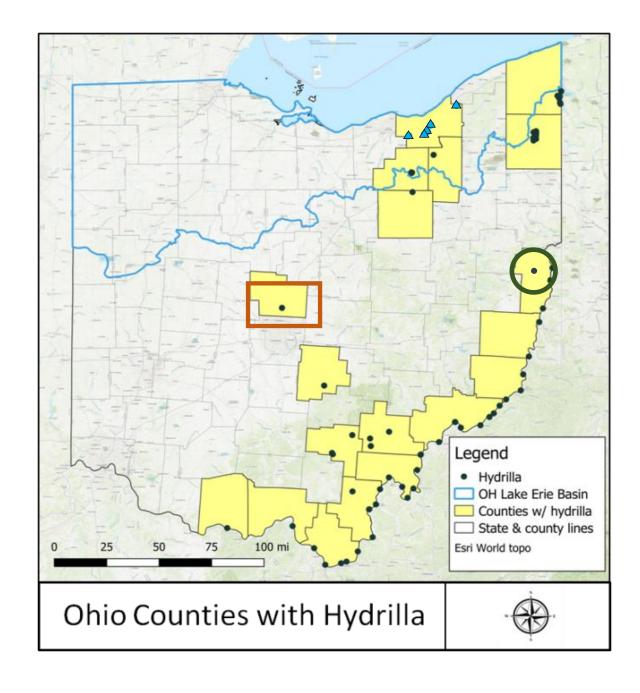
New in 2022



No longer detectable



Alum Lake





October 7, 2021 - Hydrilla discovered April 12, 2022 - planning meeting July 29, 2022 - vegetation survey August 18, 2022 - first treatment (5.

Hydrilla discovered during fish sampling planning meeting vegetation survey first treatment (5.5 acres)



Serrated leaf edges



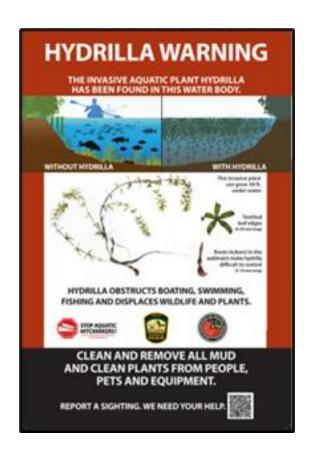
Hydrilla in the water column during sampling

# Outreach

Great Lakes Landing Blitz provided materials

#### Three kits (R) to USACE, State Parks, Div. of Wildlife

Signs available to be posted





Distributed 12 kits around Ohio. USACE Huntington, ODNR State Parks, ODNR Wildlife District 1

## Vegetation survey, summer 2022

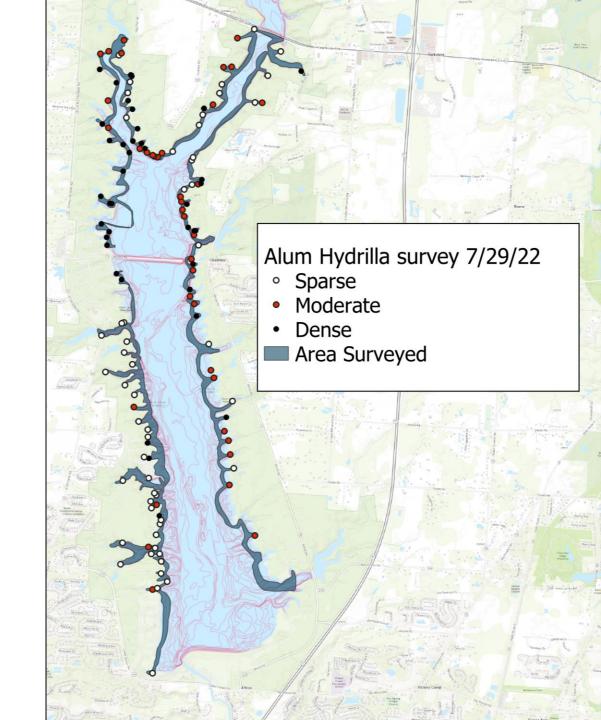
1-day survey

13 Participants from four agencies (CM, USACE, Wildlife, State Parks)

550 acres surveyed

131 detections of hydrilla

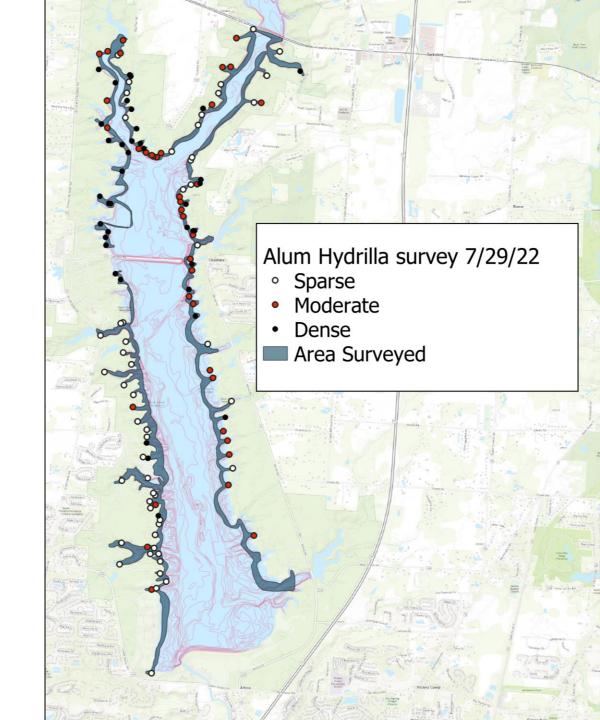
We did this because we thought we would find lots of hydrilla in the shallow locations



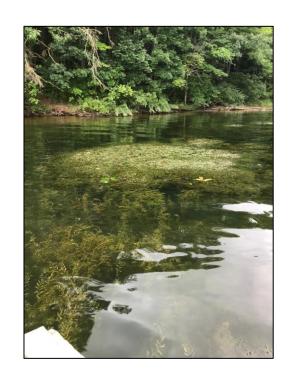


Dense stand of hydrilla in a sheltered bay

USACE Huntington Ranger inspects a hydrillainfested bay









Sparse 1-10%



Moderate 10-25%

Dense 25-100%



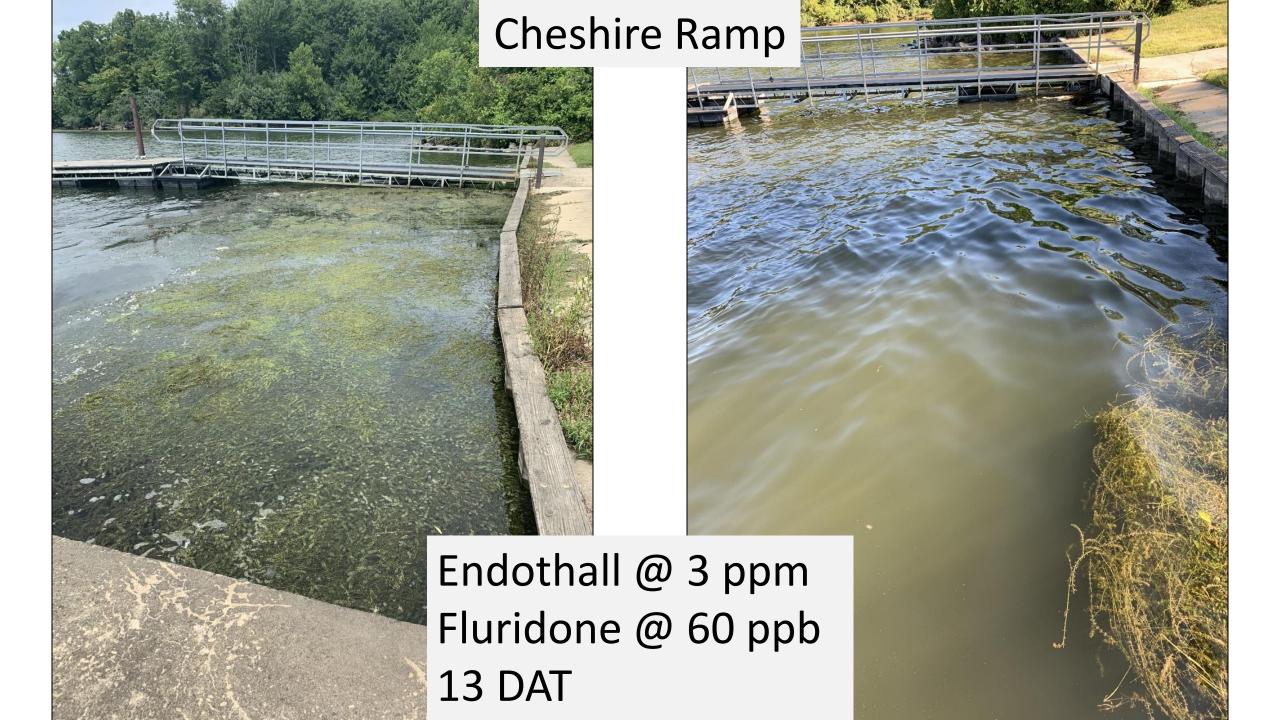
## 2022 Management

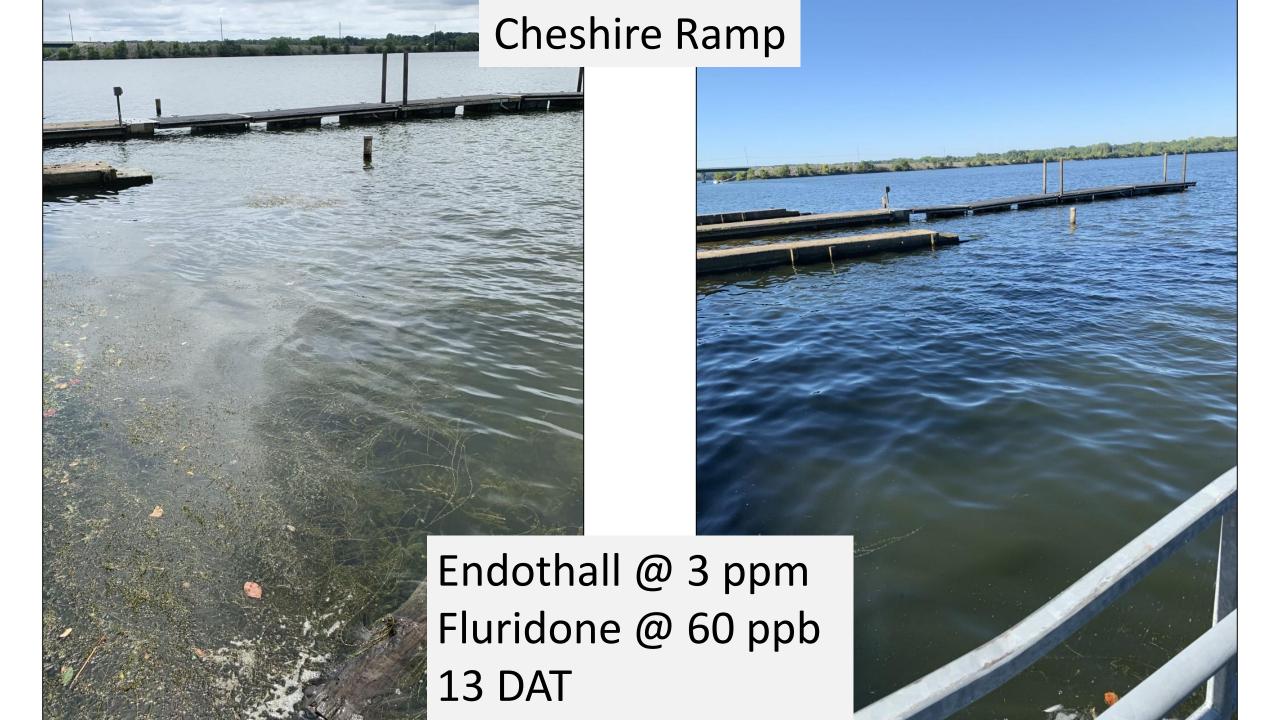
Two boat ramps identified as priorities

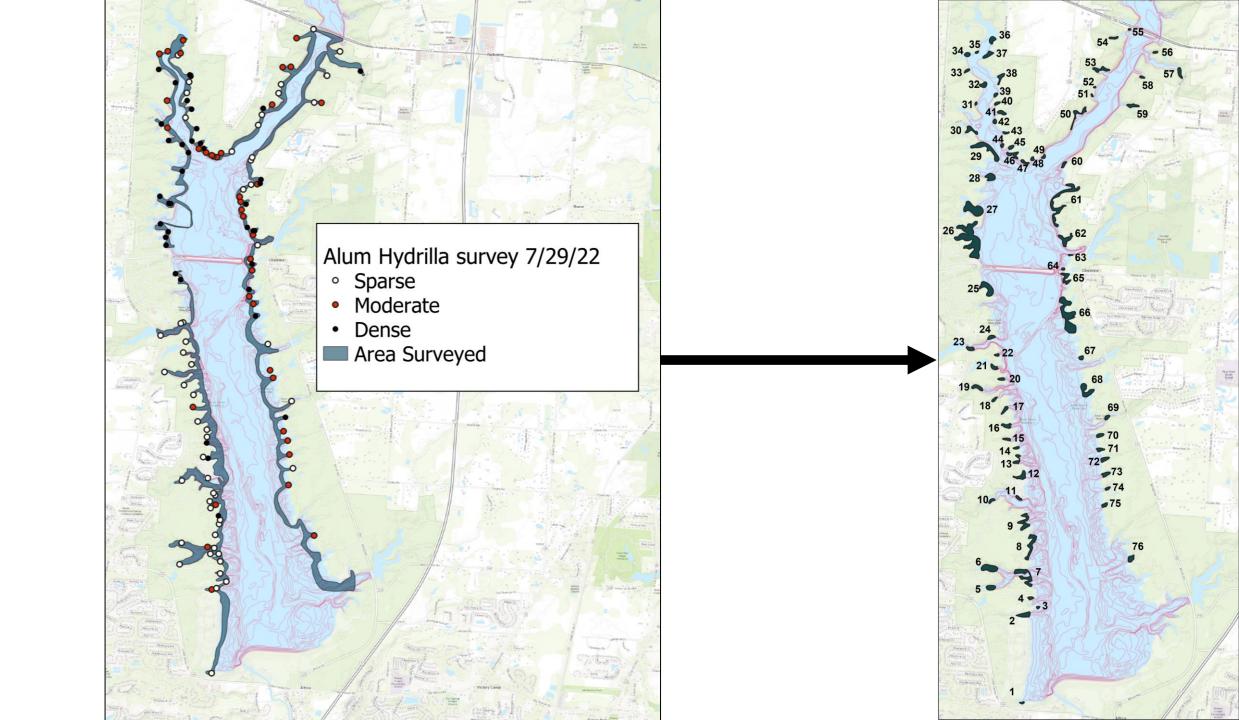
Treated 5.5 acres – Cheshire & Hollenback Boat Ramps on 8/18/22

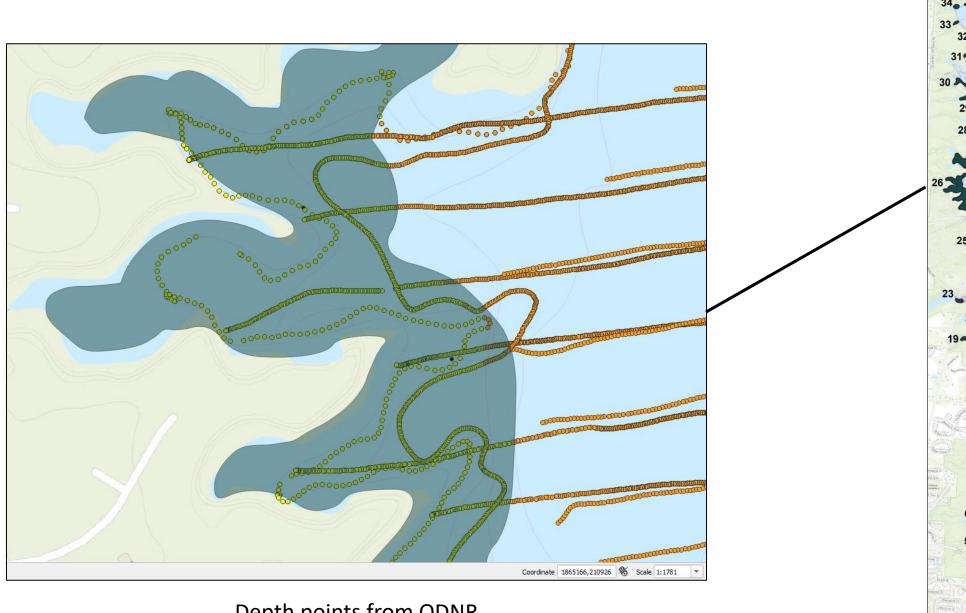
Aquathol K (Endothall a.i.) @ 3 ppm

SonarOne (Fluridone a.i.) @ 60 ppb

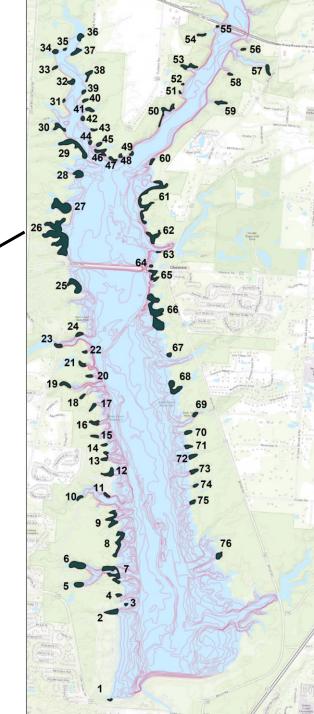








Depth points from ODNR



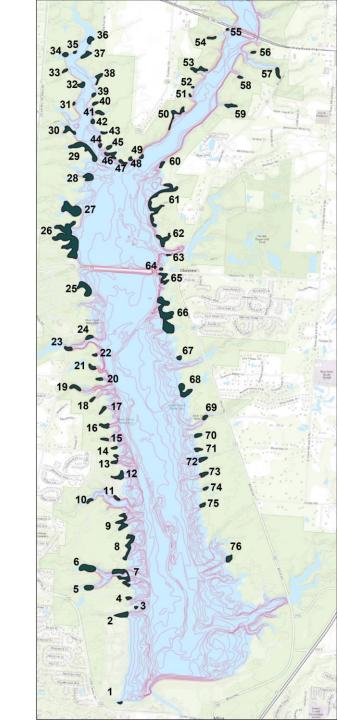
## 2023 Direction - DRAFT

Average of 5.9 feet

76 units

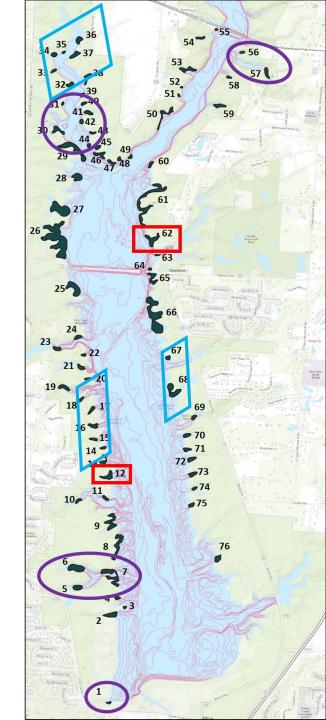
147.7 acres total

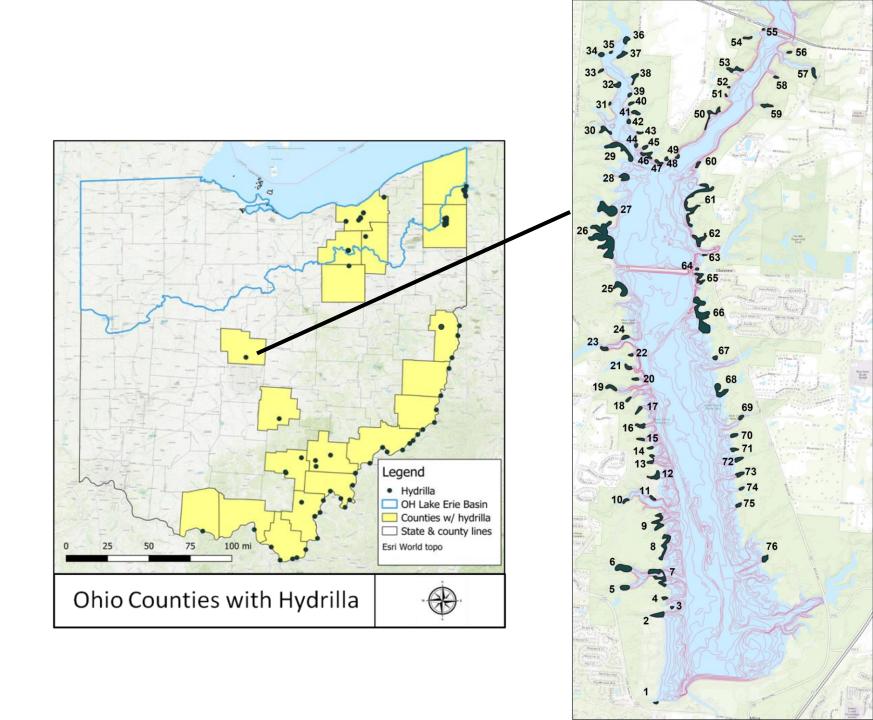
Estimated \$200,000 for herbicide (fluridone)

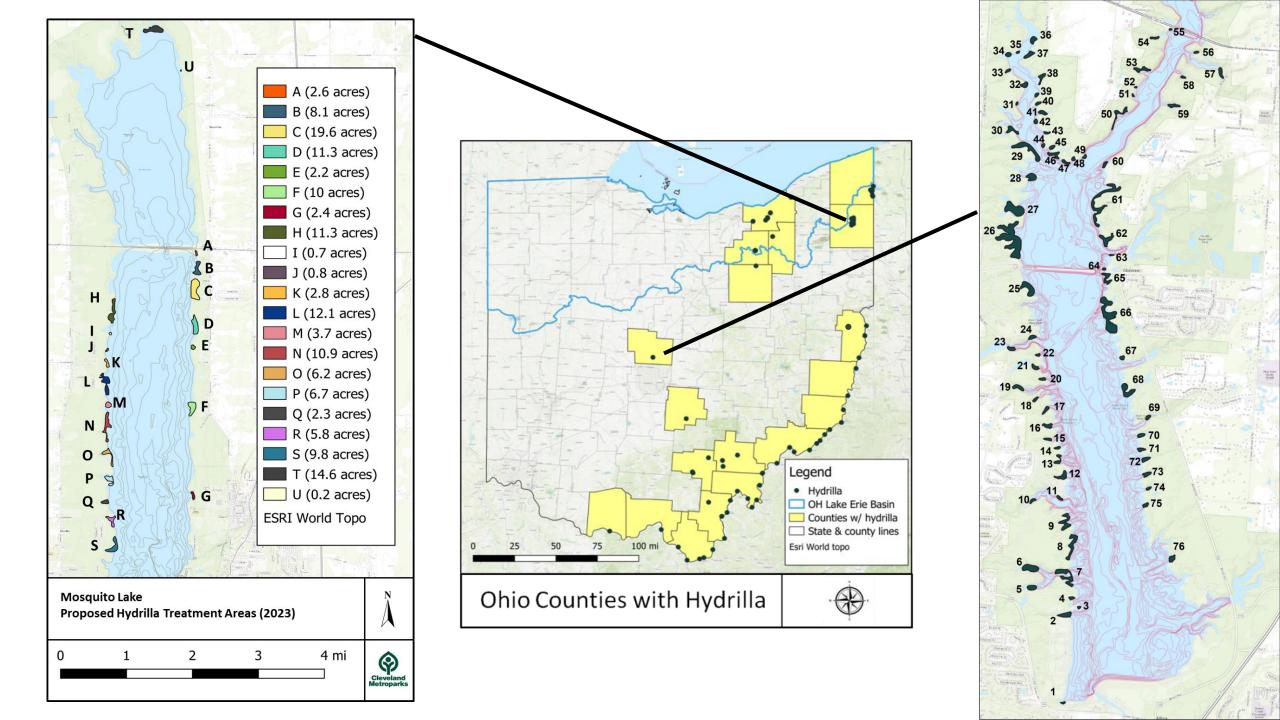


- Tier 1 boat ramps, risk of external spread
- Tier 2 recreation areas such as docks and swim spots
- Tier 3 expanded around recreation and access points

					Treatment	(lbs SonarOne)	)	
Treatment area	Area (acres)	Avg. depth (ft)	Volume (Acre ft)	May 25 (30 ppb)	Jun. 10 (50 ppb)	Aug. 25 (25 ppb)		Total
12	2.2	5	11.0	17.82	29.70	14.85		62.37
26	19.7	8	157.6	255.31	425.52	212.76		893.59
62	3.3	6	19.8	32.08	53.46	26.73		112.27
Totals	25.2	6.3	188			Total lbs		1068.23
Tier 1 sites are at Hollenback, Chesire, and the State						Total tubs		54
Park Campground Boat Ramps. It is recommended to						Cost	\$	37,530
manage hydrilla here to avoid the risk of external						Cost/acre	\$	1,489.29
spread						Cost/acre ft	\$	199.20









Limit the extent and prevalence of hydrilla in Alum Lake to undetectable levels of negative ecological and recreational impact

Limit the probability of the hydrilla population at Alum Lake from being a source for introduction to other waterbodies, especially the Great Lakes



- 5,100 acre lake
- Seven harvesters + support staff
- 59,509 yd<sup>3</sup> removed

- 3,970 dump trucks (15 yd<sup>3</sup>)
- 258 train cars (231 yd<sup>3</sup>)
- 2.5-mile train\*

House Bill 377 – at least \$1.25m budgeted



## Conclusion

Hydrilla changed Ohio natural resources management at Alum Lake

Alum's deep water may make treatment challenging

Prevention is important – we need more

Future meetings to help determine scope of work in 2023

Ohio is focused on Aquatic Invasive Plants

