



HC COLA EARLY DETECTION AIS LAKES MONITORING SUMMARY RESULTS

Hubbard County Coalition of Lake Associations (HC COLA) has encouraged lakeshore owners to be our lake's "Eyes on the Water". These citizen monitors are "first responders" in locating an aquatic invasive species (AIS) on our lakes. This early detection has proven to be an effective way of stemming the subsequent spread of AIS to other lakes. The information below highlights the growth and progress of this monitoring program over the past 5 years. These efforts have been surveyed since 2016.

Early Detection Tasks	2023	2022	2021	2020	2019	COMMENTS
On-line survey : Individual responses to on-line survey	117	116	151	135	141	Survey tracks citizen monitor efforts in completion of a variety of lakeshore tasks.
# COLA/non-COLA lakes represented in survey	27/8	28/7	26/11	27/12	41/15	Totals have slipped from 2019...
Respondents using ZM monitoring devices (settlement sampler*, PVC tube, cinder block)	108	82	140	124	122	Need to expand monitoring on inactive lakes!
Respondents that monitored Docks/Lifts	109	106	138	116/79	118/72	These were combined in 2021.
Respondents that searched public access sites	19	23	32	31	31	Monitored by COLA volunteers only in 2020
Respondents searching high risk sites	18	11	22	18	18	Resorts/PUD's, inlets/outlets, private access
Lakes with ZM monitoring device suspended at DNR public access sites	24	25	25	33	37	Monitored by COLA volunteers only in 2020
Early detectors trained through HC COLA	6 – Classes 5 – Cabins	4	4 in class; 2 families at cabins	9	30	Over 200 lake volunteers trained since 2006
Veliger Sampling	23 lakes	22 lakes	19 lakes	17 lakes	19 lakes	Continue advocating for additional ZMV sampling and follow MAISRC zebra mussel monitoring toolset research such as e-DNA analysis.
Spiny Waterflea (SWF) sampling	10 lakes	10 lakes	6 lakes	2 lakes	8 lakes	Good to see the increase in 2021 & 2022.
Aquatic Vegetation sampling and mapping	Long & Big Sand lakes used Aquatic Survey Professional	Little Sand survey updated	Kabekona: aquatic vegetation survey by RMB	Belle Taine added – used a team approach	Bad Axe added (12 lakes since 2005)	Bad Axe, Belle Taine, Big Sand, Boulder, Kabekona, Little Sand, Long, Plantagenet, Portage, Potato, Spider, 10 th Crow Wing, 11 th Crow Wing (More lakes using team approach)
Starry Trek search on local lakes for Starry Stonewort	22 accesses on 20 lakes by 11 volunteers	28 accesses on 24 lakes surveyed by 13 volunteers	19 accesses on 18 lakes surveyed by 11 volunteers	10 accesses on 9 lakes surveyed by 6 volunteer	12 accesses on 8 lakes surveyed by 4 volunteers	Hubbard County COLA & Hubbard County Environmental Services work together / coordinate Starry Trek annual searches . Starry Stonewart had been discovered earlier in Long Lake. Also 2 new lakes in Beltrami County were found to be infected in 2023.

