

2023 Summary of ISCCW Aquatic Invasive Species Program

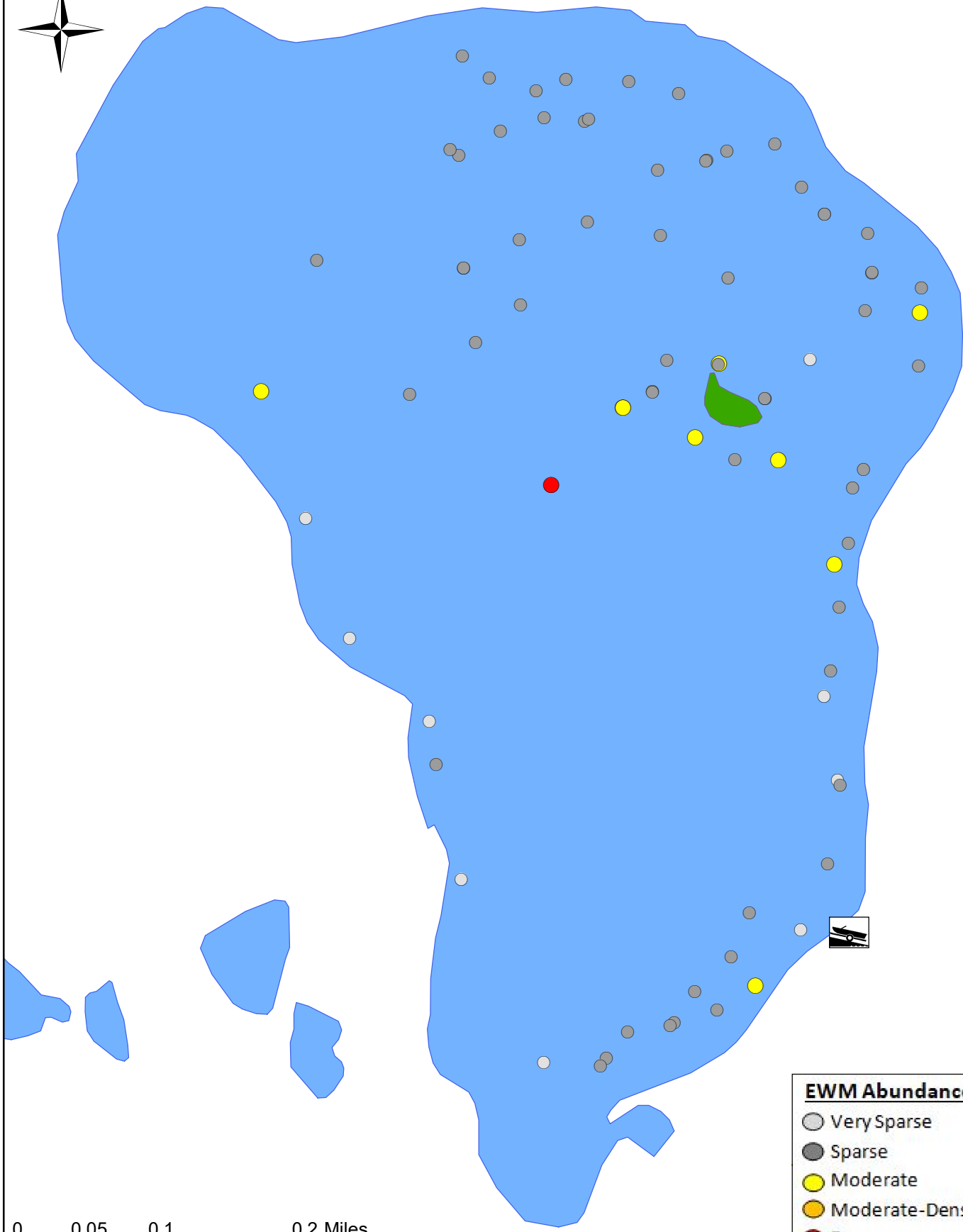
AIS Monitoring Summary			
Dates	Lake	AIS Detected	Notes
08/05/2023	Allen Lake	None	
10/22/2023	Bass Lake	EWM	Similar EWM condition in 2023 compared to 2022.
09/18/2023	Beaton's Lake	None	
08/15/2023	County Line Lake	None	
Seasonal	Crooked Lake	EWM	Monitoring focused on the boat-landing bay, which is outside of the wilderness area.
08/05/2023	Dinner Lake	None	
Seasonal	Duck Lake	EWM	The ISCCW will assist Duck Lake volunteer monitors with EWM surveys when requested by Duck Lake. In 2023, all EWM data was collected by volunteer lake monitors. There are plans for the ISCCW to assist with EWM monitoring on Duck Lake in 2024.
Seasonal	Lac Vieux Desert	EWM	ISCCW partners with the lake association on a WDNR grant.
09/09/2023	Langford Lake	EWM	Substantial increase in EWM in 2023 compared to 2022. See map for acreage details.
08/23/2023	Lobischer Creek	Purple loosestrife	Surveyed from inlet to Simpson's Point Road crossing. Two purple loosestrife plants found.
10/22/2023	Long Lake	None	Known to have yellow iris (<i>Iris pseudacorus</i>). Freshwater sponge noted.
08/15/2023	Marion Lake	Phragmites species	A sample of the patch of phragmites found in 2022 was collected and given to WePIC for identification. WePIC sent sample in for genetic analysis, because it appeared to have characteristics of both native and invasive phragmites. As of 02/12/2024, no results of analysis.
08/05/2023	Moon Lake	None	
08/07/2023	Tamarack Lake	None	
08/07/2023	Taylor Lake	None	Water appeared high. Three adult swans noted.
Invasive Species Management Assistance to Lake Groups			
Seasonal	Crooked Lake	Seasonal hand removal occurred on Crooked Lake. Entities assisting in efforts included Crooked Lake riparians, ISCCW, USFS-Ottawa, WePIC and hired contractors.	
09/07/2023	Lobischer Creek	Two purple loosestrife plants pulled.	

EWM = Eurasian watermilfoil (*Myriophyllum spicatum*) CLP = Curly leaf pondweed (*Potamogeton crispus*)

2023 Crooked Lake Management Strategy Highlights

The ISCCW aided the Crooked Lake riparian owners implement their proposed EWM management strategy which included season hand removal of EWM and surveys. Crooked Lake was a high priority project for the ISCCW in 2023 and is committed to continue efforts as resources allow in 2024.

- 2023 Priorities
 - Seasonal surveys of EWM to identify locations of EWM and assess management efforts
 - Use snorkel pulling to remove shallow plants along the riparian ownership shoreline
 - Use divers to remove deeper water EWM locations focusing on off shore regions in the traffic corridor from the boat launch to the channel and deep-water plants in front of boat launch.
 - Provide information to Sylvania users on aquatic invasive species and the status of EWM on Crooked Lake
 - USFS focused on hand pulling locations within the wilderness area, mainly targeting the channel between the first and second bay.
- Accomplishments
 - Ninety-five hours of snorkel pulling removed roughly 2.8 tons of EWM from Crooked Lake between June-August.
 - Forty dive hours removed all plants within the major pathways to spread, including deeper water locations off the boat landing and traffic corridors to wilderness area (off shore rock bar). A total of ~659 plants were removed during these efforts.
 - ISCCW volunteers spent time at the Crooked Lake boat landing educating users about aquatic invasive species.
 - WePIC provided one day of shallow water hand removal from the boat launch working north along USFS property.
 - USFS – Ottawa spent several days monitoring Crooked Lake for EWM and hand pulling locations within the wilderness area, mainly the channel from 1st bay to 2nd bay.
 - Efforts in 2023 were successful at reducing the overall abundance or density of EWM, however, the footprint remains similar. This is to be expected during the first year. Continued efforts should hopefully begin to reduce footprint to a long-term manageable level.

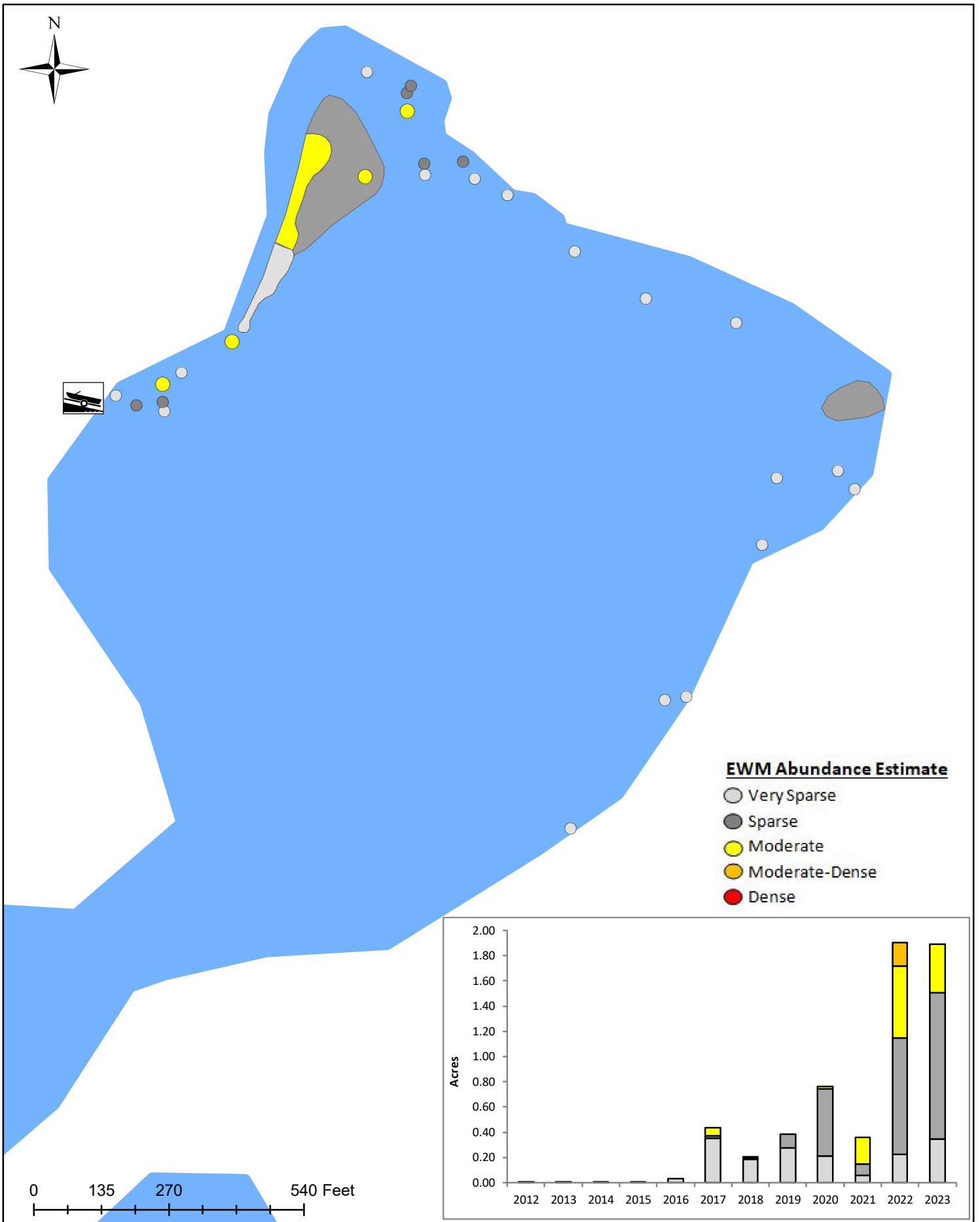


EWM Abundance Estimate

- Very Sparse
- Sparse
- Moderate
- Moderate-Dense
- Dense

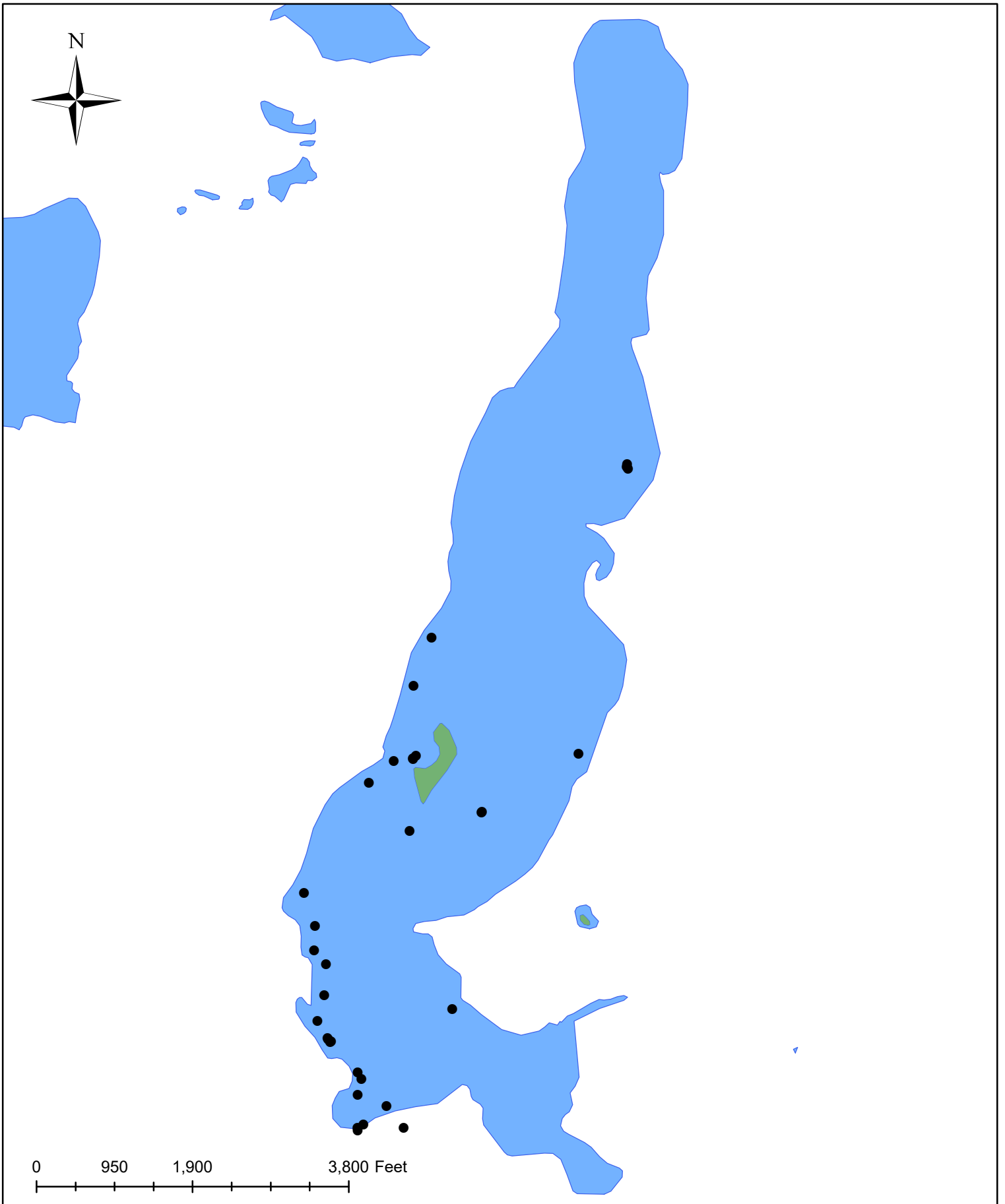
Lake: Bass Lake - Gogebic County, MI
Map Date and Creator: 02/05/24, Many Waters, LLC
Survey Date: 10/22/23
Source: EWM-Many Waters, MDNR_LakePoygons08162022
File: BassMLSS_2023

**Bass Lake - Gogebic County, MI
EWM Locations
2023**



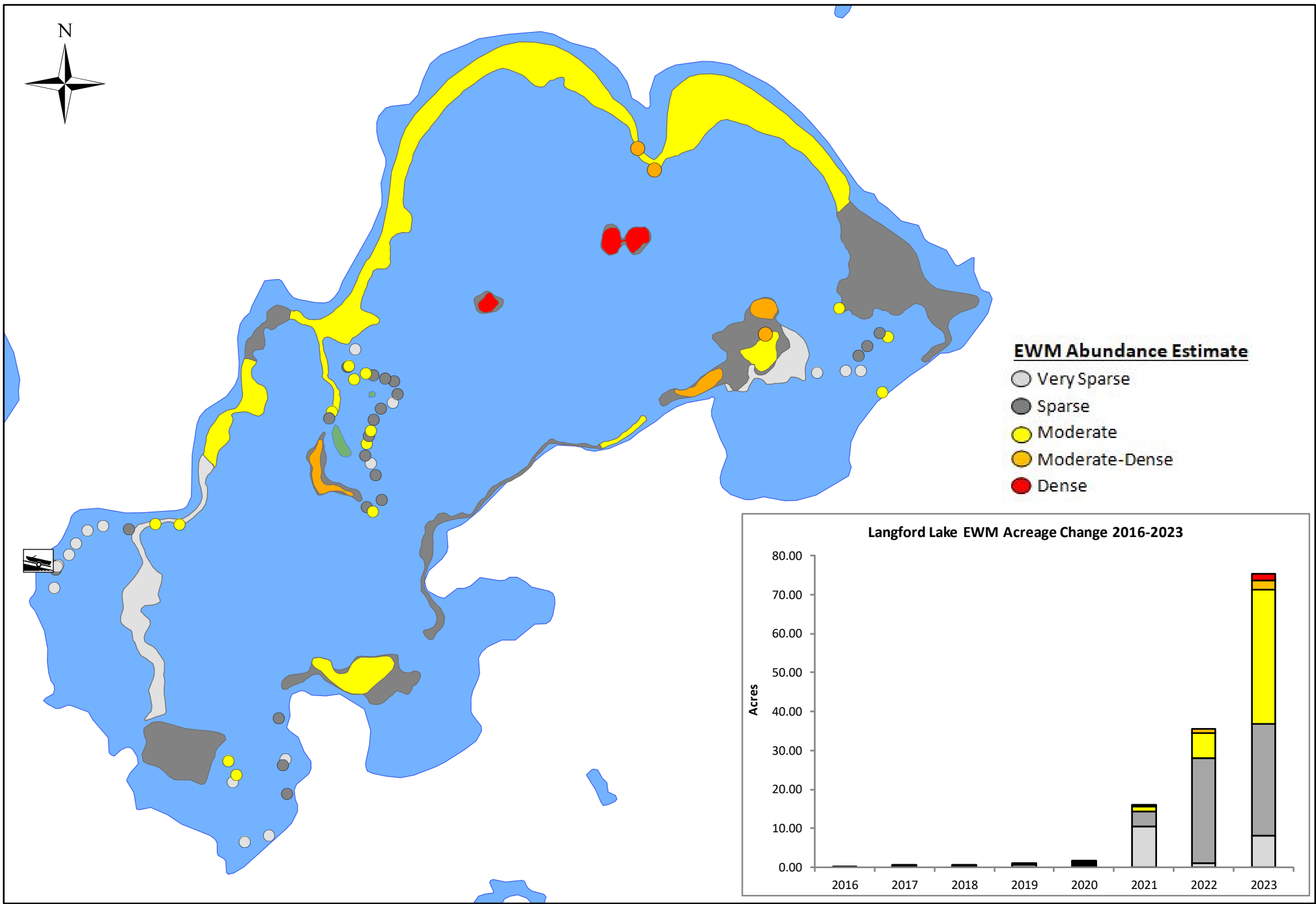
Lake: Crooked Lake, Gogebic County, MI
 Map Date & Creator: 01/31/24, Many Waters, LLC
 Survey Dates: 10/21/23
 Source: EWM-Many Waters, MiGDL Lake_polygons_200403
 File: Crooked_EOY_2023

**Crooked Lake - Gogebic County, MI
 End of the Season EWM Locations
 2023**

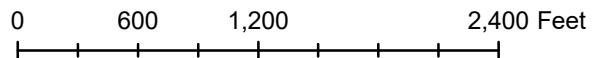


Lake: Duck Lake, Gogebic County, MI
Map Date & Creator: 01/31/24, Many Waters, LLC
Source: MiGDL Lake_polygons_200403, EWM-Duck Lake Volunteer Monitors
File:Duck_EWM_2023

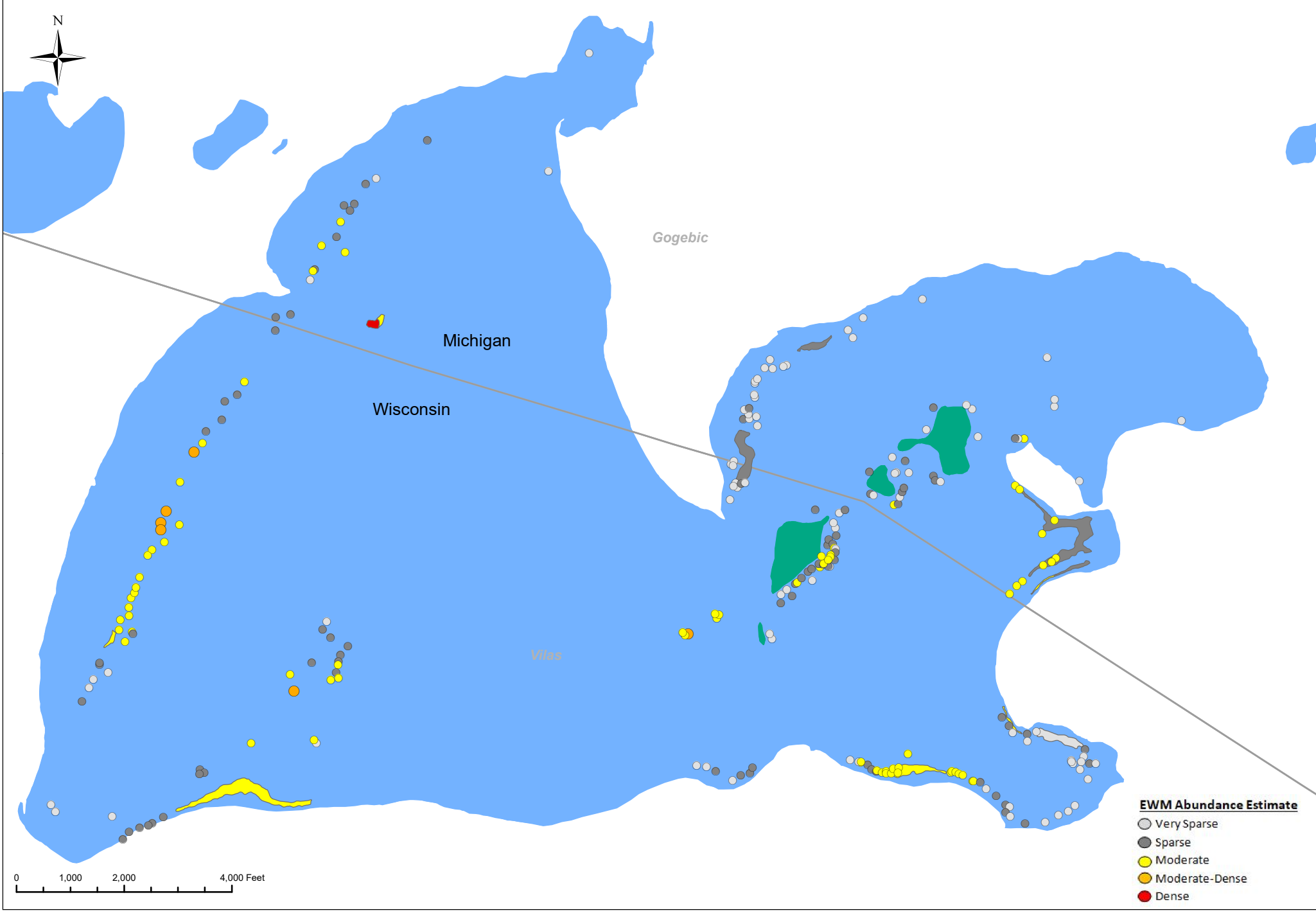
Duck Lake, Gogebic County, MI
EWM Locations
2023



Lake: Langford Lake, Gogebic County, MI
 Map Date & Creator: 01/31/24 Many Waters, LLC
 Survey Date: 9/9/23
 Source: EWM-Many Waters, MiGDL Lake_polygons_200403
 File: Langford_EWM_2023



**Langford Lake - Gogebic County, MI
 EWM Locations
 2023**



Lake: Lac Vieux Desert - Vilas, Co, WI & Gogebic Co, MI
 Map Date & Creator: 01/09/24 Many Waters, LLC
 Survey Dates: 10/18-20/24
 Source: MiGDLake_polygons_200403, WI Hydro, EWM-Many Waters
 File: LVD_EOY_2023

Lac Vieux Desert
Vilas County, WI & Gogebic County, MI
End of the Year EWM Locations
2023