

I. Fish Surveys

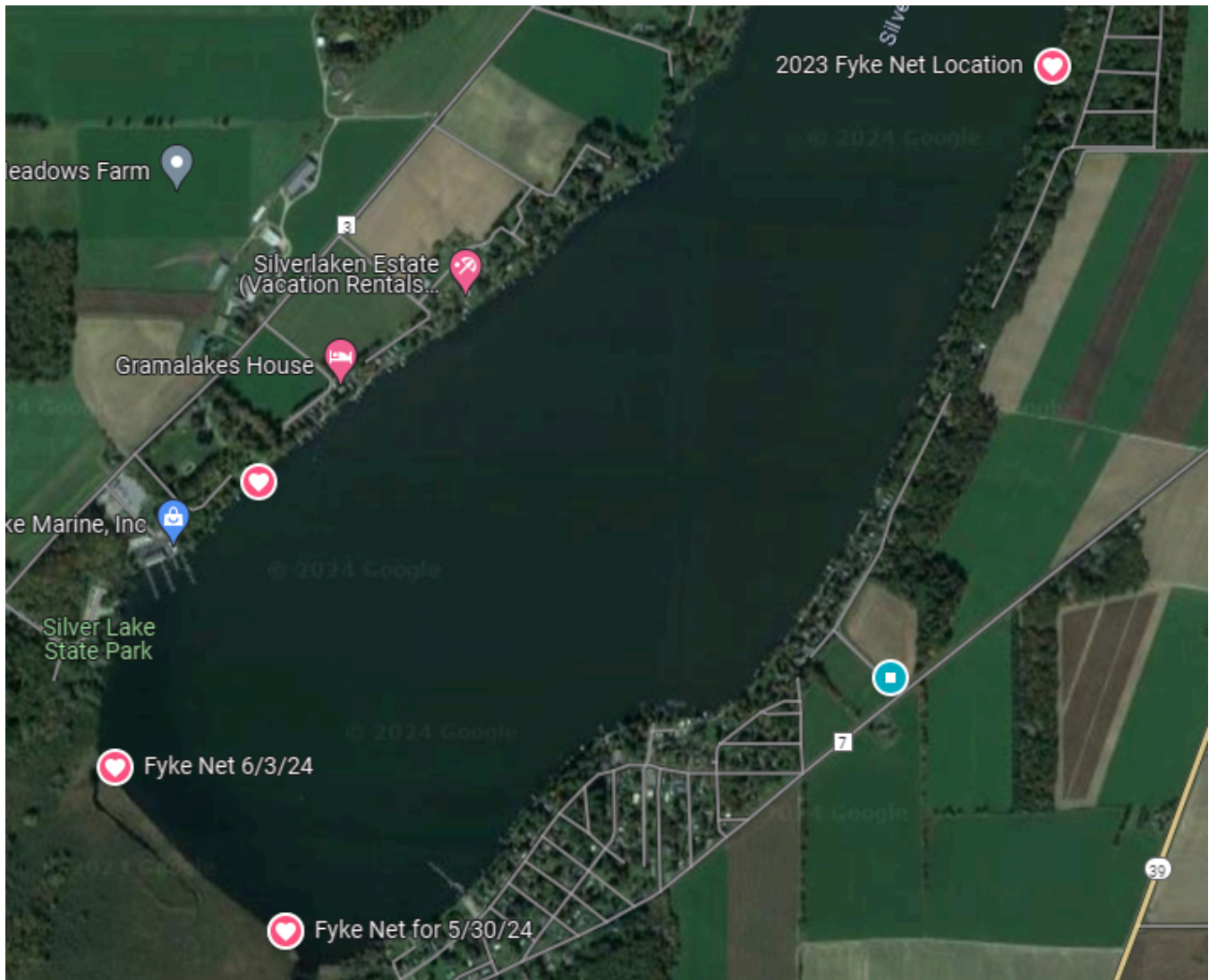


Figure 1: Fyke Net locations for 2023-2024 Fish Suveys.

Table 1: Fish counts for Fyke Net sampling in collaboration with DEC for their Big Panfish Initiative.

Date Collected	Species	Count	Date Collected	Species	Count
5/5/23	Bluegill	4	5/30/24	Black crappie	13
	Rock Bass	8		Bluegill	22
5/5/23 Total		12		Pumpkinseed	59
5/10/23	Black Crappie	1	5/30/24 Total	Yellow perch	2
	Brown bullhead	2			96
	Yellow bullhead	2	6/3/24	Black crappie	35
5/10/23 Total		5		Bluegill	34
5/25/23	Black Crappie	56		Pumpkinseed	54
	Bluegill	6		Rock Bass	1
	Largemouth Bas	1		Yellow perch	5
	Pumpkinseed	8	6/3/24 Total		129
	Rock Bass	2	2023-2024 Grand Total		372
5/25/23 Total		73			
9/27/23	Bluegill	6			
	Brown bullhead	1			
	Largemouth Bas	5			
	Pumpkinseed	22			
	Rock Bass	8			
	White Crappie	2			
	Yellow bullhead	1			
	Yellow Perch	12			
9/27/23 Total		57			

Perry Fish Surveys

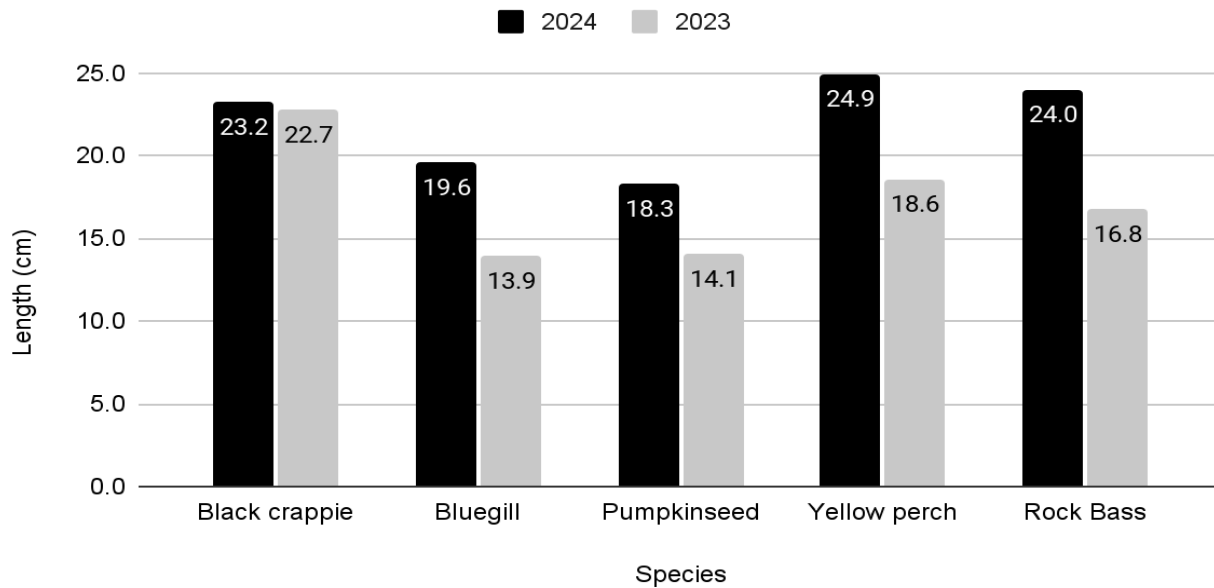


Figure 2: Mean panfish lengths from Fyke Net surveys.

II. Macrophyte Surveys

Table 2: Summary of Macrophyte Sampling 2023-2024. For each data, three random rake samples were collected.

Lake End (N/S)	Sample Date	Species	SUM of Wet Weight	Lake End (N/S)	Sample Date	Species	SUM of Wet Weight			
North	5/31/2022	Coontail	2730.16	South	9/16/2022	Coontail	737.56			
		Curly-Leaf Pondweed	706.51		5/3/2023	Coontail	246.25			
		E. milfoil	32.12			Curly-Leaf Pondweed	50.33			
	9/16/2022	Coontail	2739.7			Ribbonleaf Pondweed	89.99			
	5/5/2023	Coontail	E. milfoil		3.9	5/31/2023	Coontail	Slender Waterweed	31.28	
			E. milfoil		5.92			Water Stargrass	34.84	
			Elodea		5.97			Curly-Leaf Pondweed	1301.19	
	5/31/2023	Coontail	Ribbonleaf Pondweed		4.72	9/13/2023	Coontail	Small Pondweed	5.45	
			Coontail		147.85			Coontail	Curly-Leaf Pondweed	5.5
			Curly-Leaf Pondweed		1616.61				E. milfoil	42.54
	9/13/2023	Coontail	E. milfoil		4.05	10/3/2023	Coontail		Coontail	631.28
			E. milfoil		1300.724			Curly-Leaf Pondweed	107.02	
E. milfoil			222.53	E. milfoil	5.27					
5/31/2023	Coontail	Eelgrass	36.08	5/3/2024	Coontail	Elodea	42.5			
		Elodea	94.3			5/14/2024	Coontail	Coontail	172.46	
		10/3/2023	Coontail					1317.62	Curly-Leaf Pondweed	757.76
9/13/2023	Coontail	E. milfoil	163.28	5/14/2024	Coontail			E. milfoil	44.13	
		Elodea	113.62			Curly-Leaf Pondweed	284.13			
		Leafy pond weed	46.18			E. milfoil	93.47			
5/14/2024	Coontail	Coontail	1105.4							

2023-2024 Macrophyte Surveys

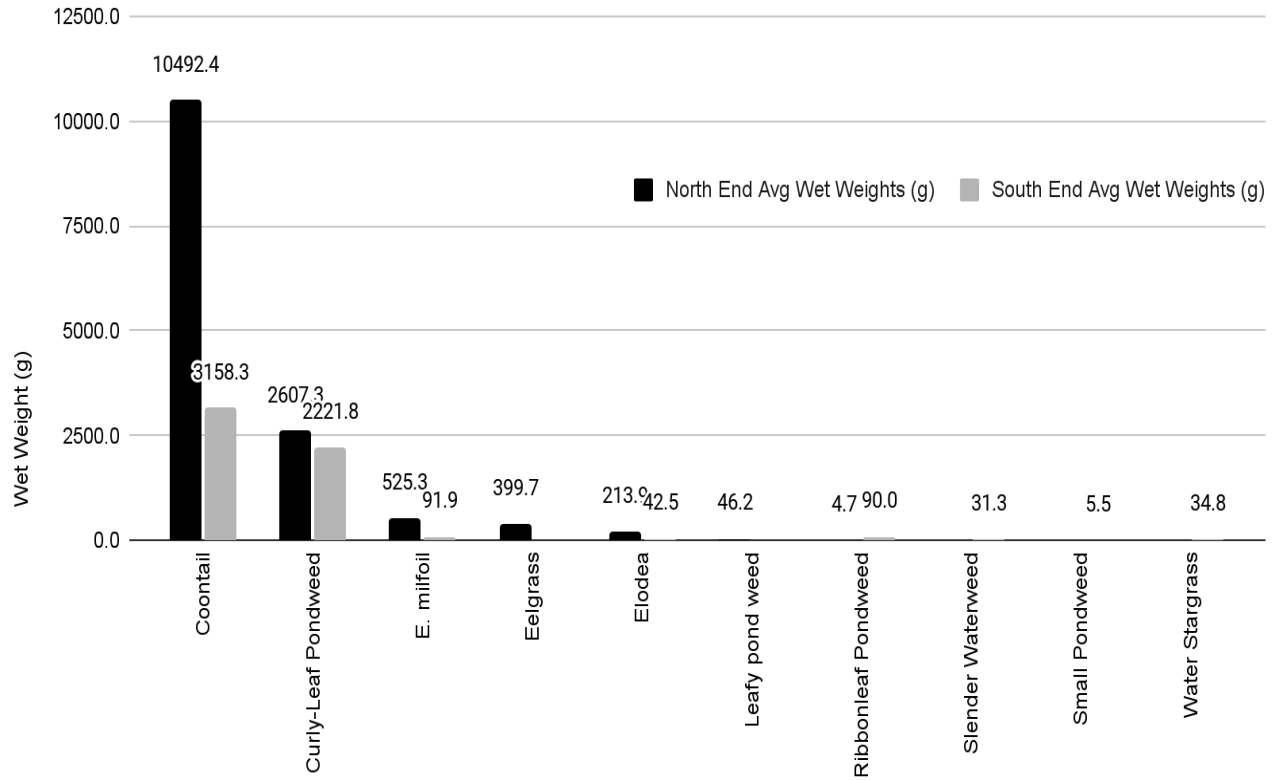




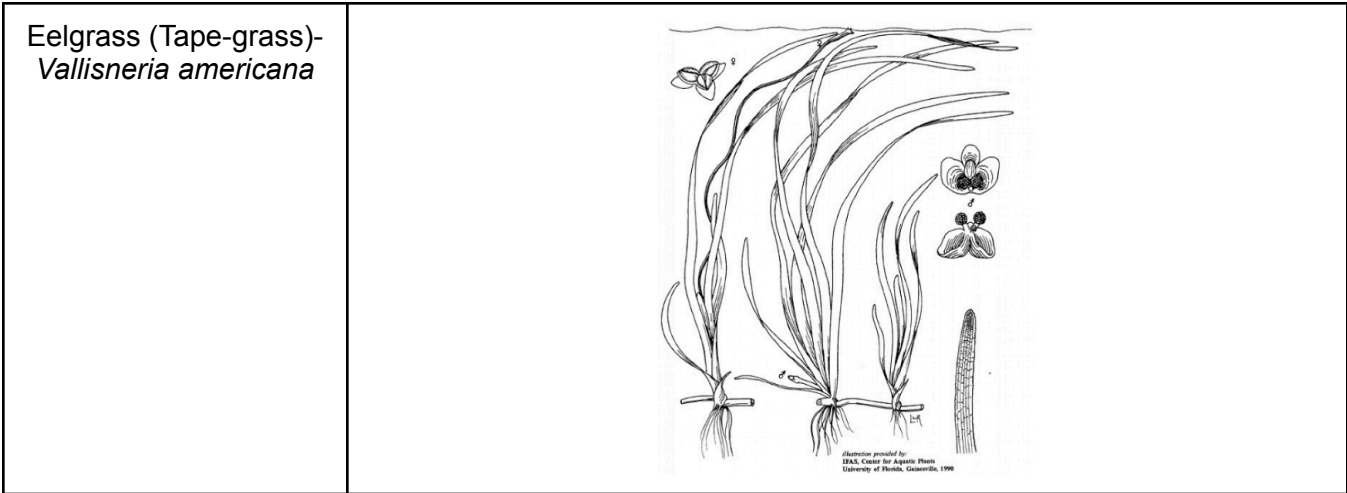


Figure 3: Summary of macrophyte surveys from rake throws.

Table 3: Common species collected from Silver Lake (*denotes non-native species).

Species	Image
Coontail- <i>Ceratophyllum demersum</i>	
*Common waterweed - <i>Elodea canadensis</i>	
*Curly-Leaf Pondweed - <i>Potamogeton crispus</i>	
*Eurasian water milfoil - <i>Myriophyllum spicatum</i>	



III. Zebra Mussel Surveys

Zebra Mussel Size Distribution (North End)

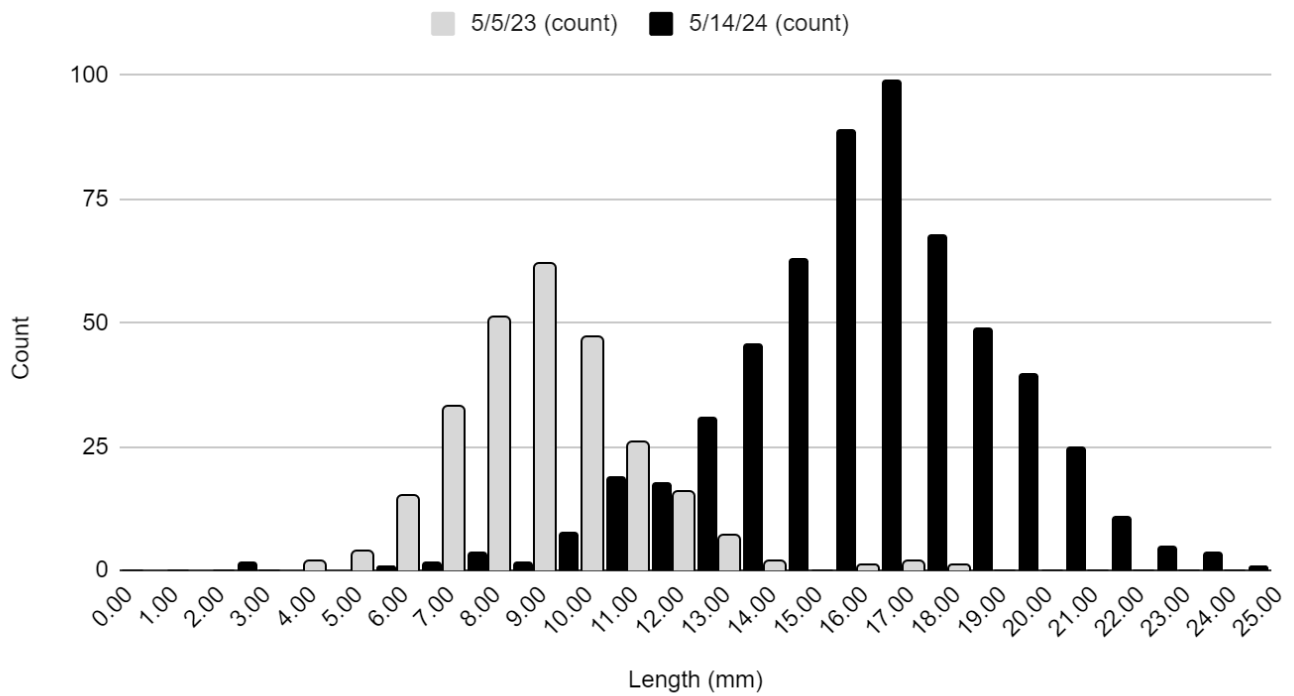
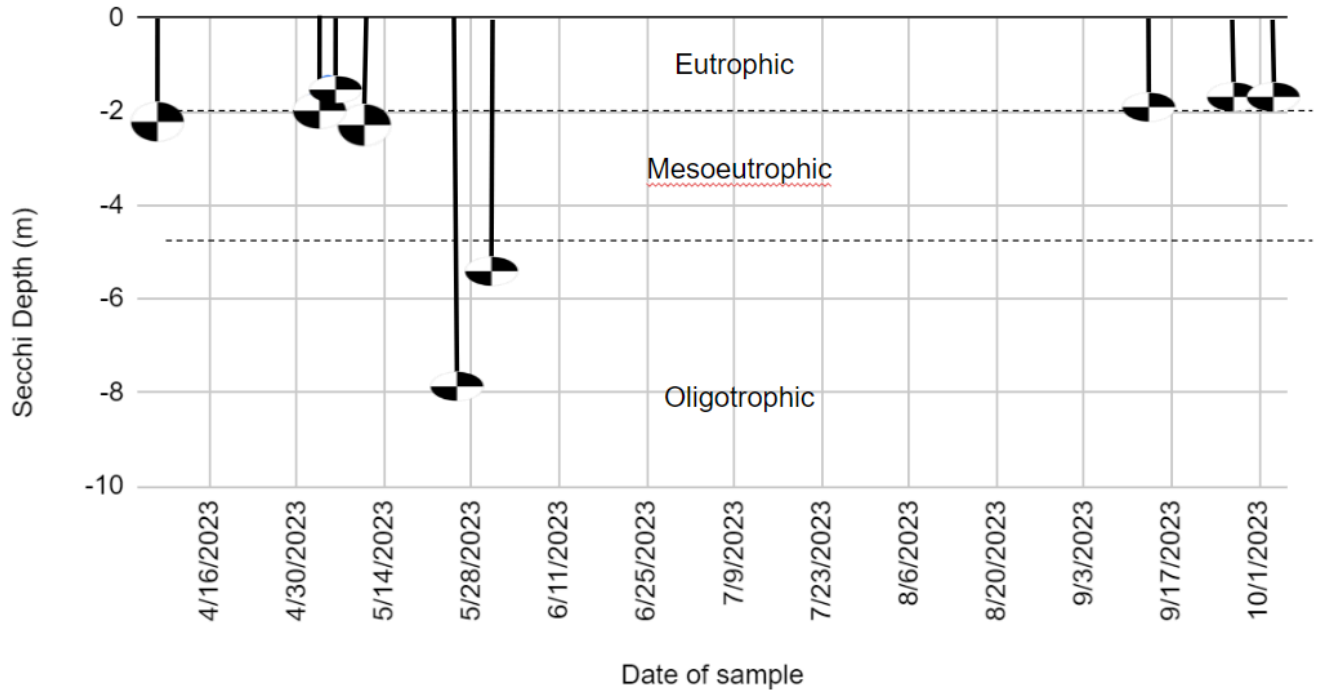


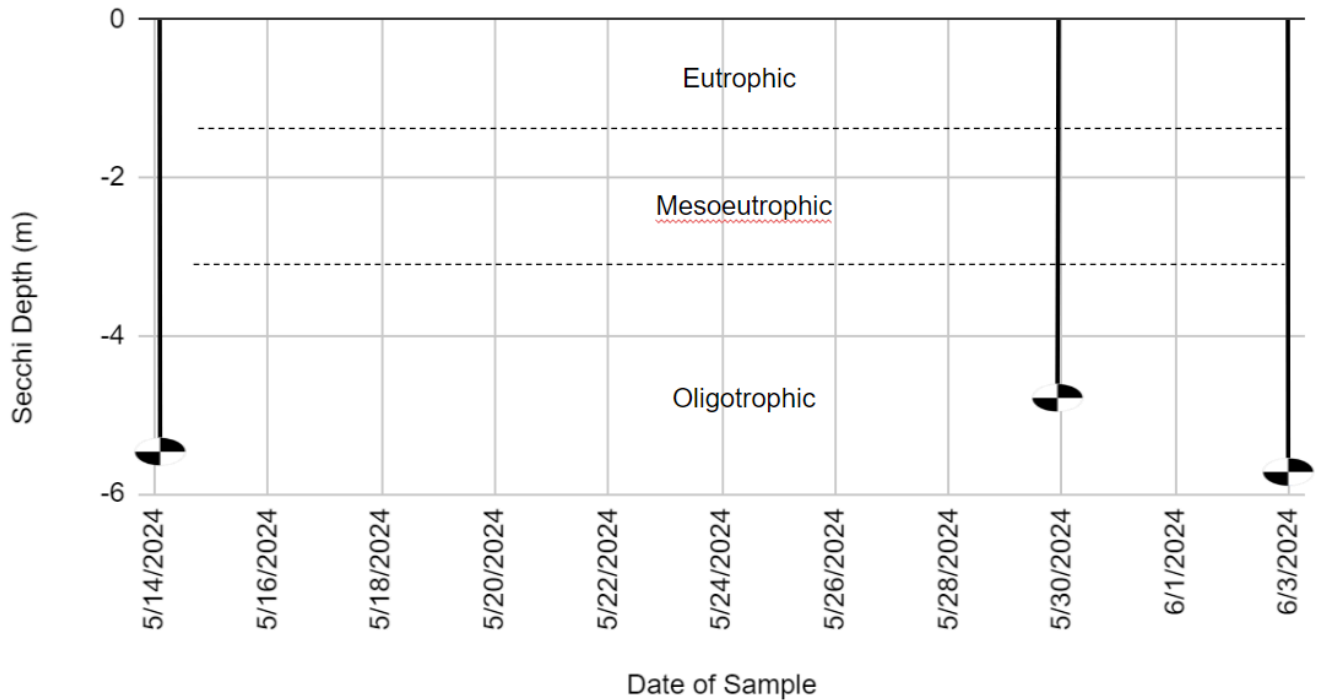
Figure 4: Zebra mussel size distributions collected from the North end of Silver Lake (no zebra mussels were recovered from the South end of Silver Lake).

IV. Secchi Depth Measurements - Taken from Temperature Array Site

2023 Secchi Depths



2024 Secchi Depths



V. "Hydrolab" Measurements*

Table 4: Dissolved oxygen measurements from Temperature Array Site.

Depth (m)	9/13/2023	9/27/2023	10/3/2023	5/14/2024	5/30/2024	6/3/2024
1	9.16	8.44	11	9.52	9.08	9.33
2	9.15	7.59	11.35	9.6	9.07	9.33
3	9.14	7.53	10.97	9.63	9.07	9.26
4	9.12	7.35	10.24	9.66	9.06	9.22
5	9	7.34	8.37	9.68	8.71	8.82
6	8.33	7.14	7.38	9.67	8.45	8.33
7	5.24	7.1	7.18	9.65	6.89	8.16
8	2.31	7.09	4.49	9.64	6.27	6.34
9	2.31	7.04	2.16	8.99	5.3	5.34

Table 5: pH measurements from Temperature Array Site.

Depth (m)	9/13/2023	9/27/2023	10/3/2023	5/14/2024	5/30/2024	6/3/2024
1	8.71	8.24	9.22	9.08	8.52	8.84
2	8.71	8.15	9.13	9.04	8.53	8.79
3	8.7	8.15	9.01	8.99	8.54	8.77
4	8.7	8.09	8.72	8.92	8.54	8.76
5	8.69	8.08	8.38	8.86	8.46	8.67
6	8.44	8.03	8.16	8.78	8.37	8.56
7	8.13	8.02	8.14	8.71	8.16	8.53
8	7.61	8.02	7.62	8.68	8.14	8.15
9	7.41	7.88	7.52	8.43	7.99	8.05

*ORP, Chlorophyll-a were also measured; however, these sensors need to be recalibrated

VI. Zooplankton Surveys

Silver Lake: Zooplankton Sampling

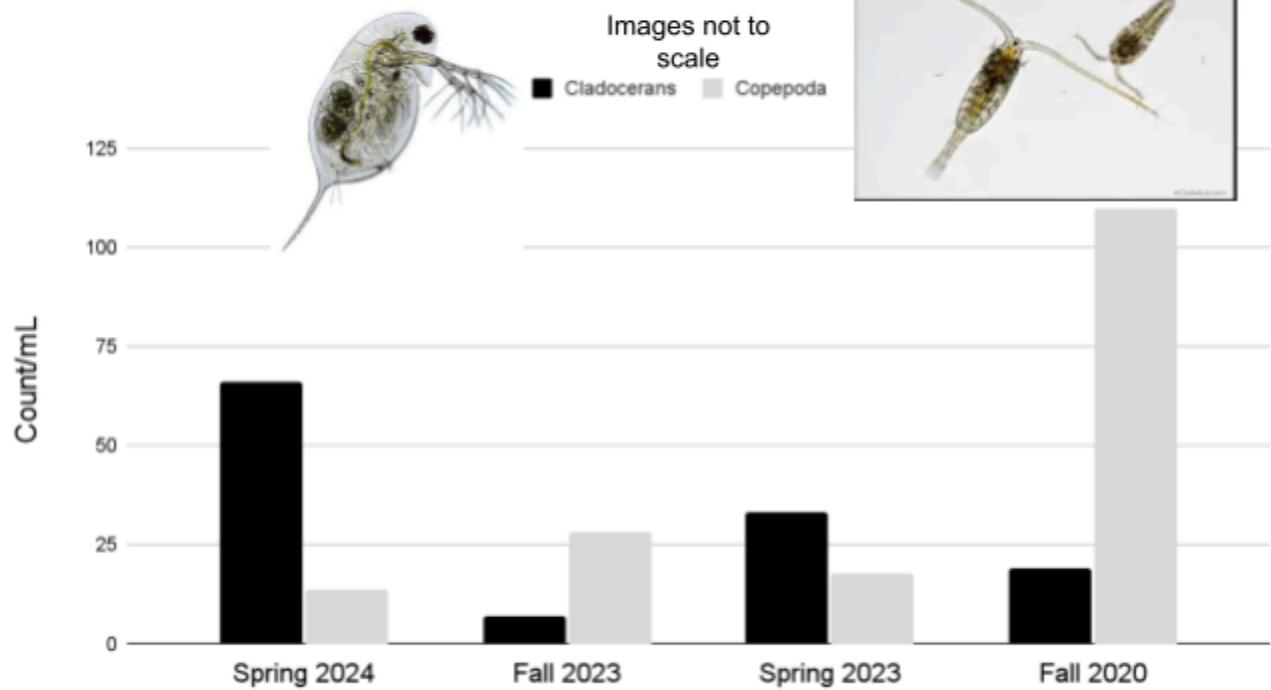


Figure 5: Zooplankton surveys (Temperature Array site). Literature suggests higher Copepoda number is an indicator for higher nutrient levels within freshwater lakes.