

Friends of Beaver Lake

Committed to preserving the natural habitat of Beaver Lake, for the long term recreational usage of our residents

Board Of Directors

- Mike Katz
- Paul Raab
- Bruce Flunker
- Pat Lye
- Pat Kraft
- Dennis Foley
- Ryan Schultz
- Mark Erdmann
- Larry Stover
- Thanks to Jim Grinney for Web Site Help

Focus Areas

- Education
 - What makes a healthy lake?
 - What can you do?
- Lake Monitoring
 - Clarity
 - Chemistry
 - Fish
 - Invasive Species
 - Level
- Lake Remediation
 - Weed Spraying
 - Weed Pulling
- Communication
- Fundraising

Lake Clarity

FOBL Secchi Disc Readings 2024
 Measured between the points, between 10AM and 2PM

Wednesday July 24	10 feet, 11 inches
Wednesday July 31	10 feet, 11 inches
Tuesday August 13	11 feet, 10 inches
Wednesday August 21	11 feet, 11 inches
Monday September 2	10 feet, 10 inches
Sunday September 8	11 feet, 6 inches
Sunday September 22	11 feet, 7 inches
Saturday October 5	11 feet, 3 inches

Thanks to Dale Lye

Eurasian Milfoil

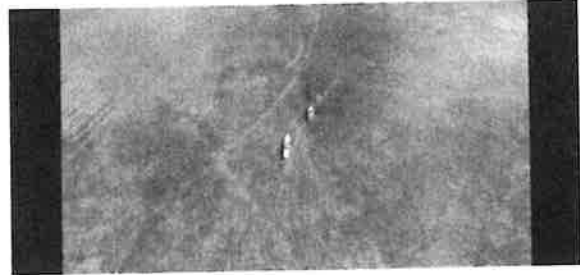
- Did not chemically treat this year – Will do so in 2025
- Survey showed increase in acreage where milfoil is found
 - 0.39 Acres – Our lake is 327 Acres
- Hand pulled over 35 Locations
- Fragments Floating – This is how Milfoil spread
- Most concentrated area is near the lauch



What can you do for the health of the lake?

- Plant a buffer zone on your shoreline
- Please do not salt your driveway
 - Municipalities asked not to salt, but have said no
- Do not use Nitrogen Based fertilizers
- Pluck out of the lake milfoil fragments when you see them
- Drain and wash your boat if you ever take it out
- Avoid full power of your boat in shallow areas

Shallow Boat Driving Results



By the Numbers - 2024

- Overall Revenue of \$59,000
- Funded by the donations of 95 residents or nearly 70% percent of lake parcels
- Largest Costs are
 - Weed Spraying and Hand Pulling
 - Fish Surveys and Stocking
 - Partnership with Wisconsin Lutheran College
 - Water Quality Monitoring
 - Aquatic Plant Surveying and some Hand Pulling
 - Nearshore Fish Sampling
 - Zooplankton Assessment
 - Educational Activities and Consulting
- Have over \$300K investment fund
 - Rainy Day Fund

Wisconsin Lutheran College 2024 Activities

- Scuba Videography
- Fish Surveys (forage and game fish)
- Dissolved oxygen, pH, temperature profiles (spring, summer, fall)
- Zooplankton analysis
- Vegetation surveys
- Eurasian water milfoil removal

Dr. Ethan Degner
ethan.degner@wlc.edu



Fish surveyed with fyke nets and seine nets



Fish sampling in 2024 substantially different than prior years due to colder water temps

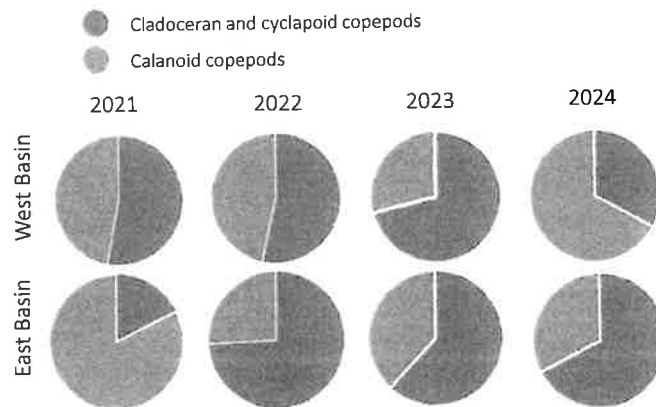
Yearly Totals	2021	2022	2023	2024
Bluegill	691	745	863	82
*Rock Bass	15	12	26	5
Pumpkinseed	1	1	2	1
Green Sunfish	13	19	6	6
Longnose Gar	15	4	6	9
Largemouth Bass	31	11	12	3
*Smallmouth Bass	13	13	1	2
Walleye	0	0	0	2
Yellow Bullhead	0	0	0	1
Northern Pike	0	0	0	1

Yearly Totals	2021	2022	2023	2024
Bluntnose Minnow	383	321	289	46
Brook Silverside	140	40	2	12
Sand Shiner	299	82	81	2
*Rainbow Darter	1	9	5	3
*Iowa Darter	0	0	1	1
Large Mouth Bass	0	0	0	25
Bluegill	0	0	0	4
*Small Mouth Bass	0	0	0	9
Johnny Darter	0	0	0	1

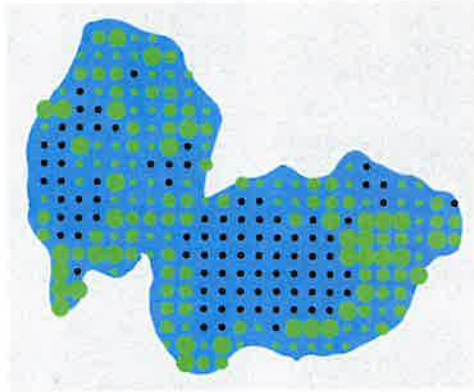
*Indicates species that are considered intolerant of habitat degradation and poor water quality. Their presence signifies good water quality in Beaver Lake. (Lyons 1992)

Zooplankton Analysis

High proportion of calanoid copepods (orange) correlates with lower nutrient levels.

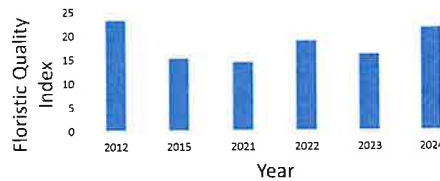


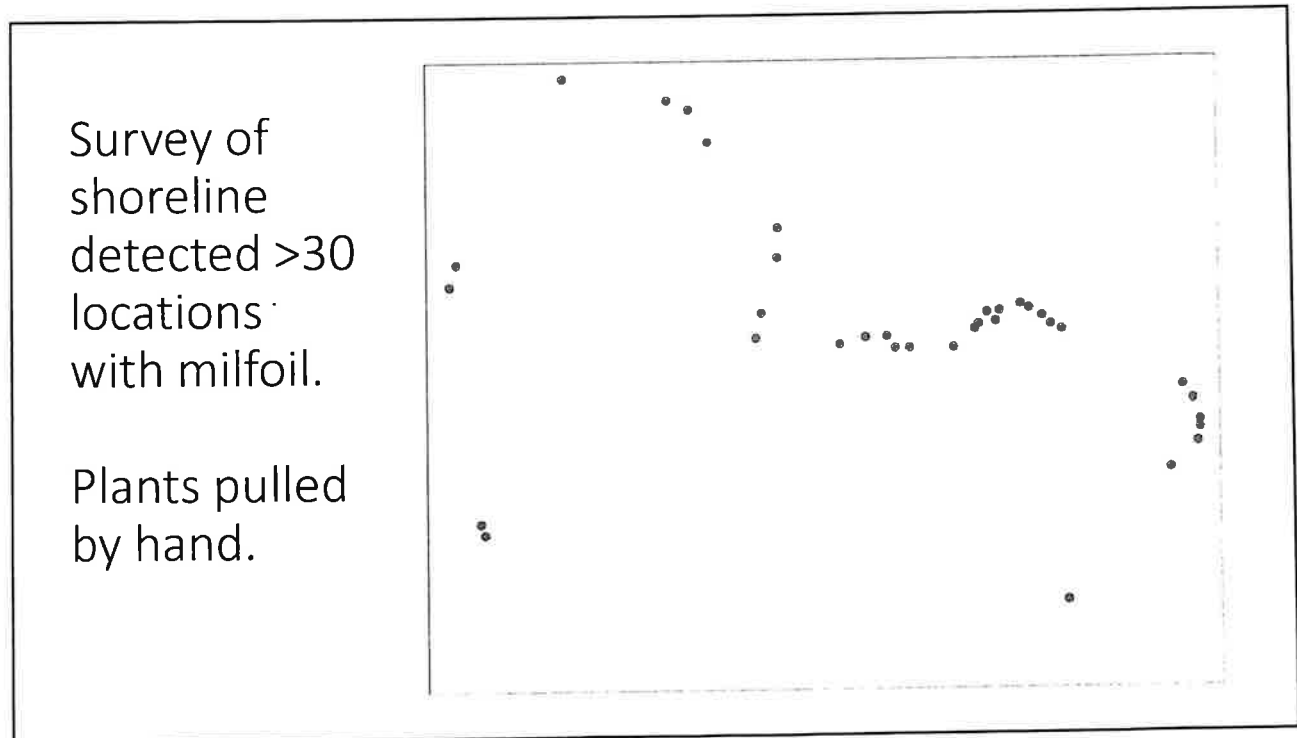
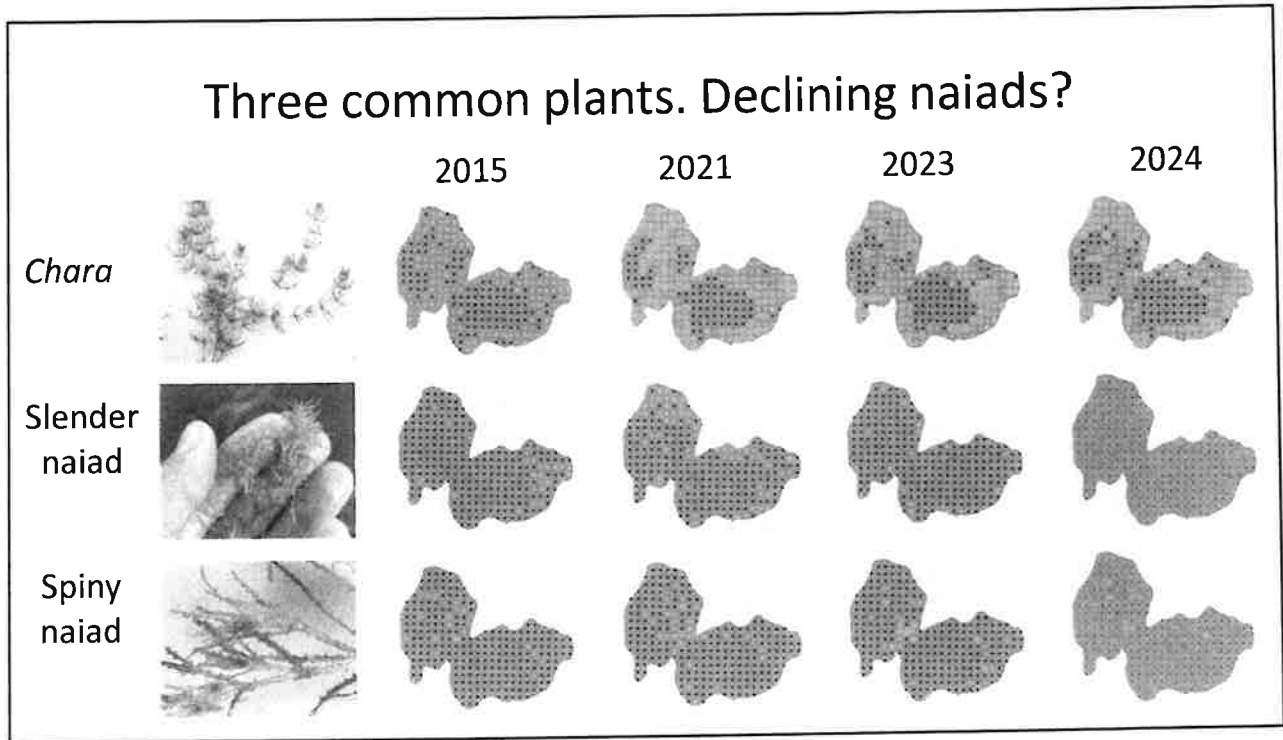
Aquatic vegetation sampled at 255 points each year



Vegetation survey summary:

- More species detected led to higher floristic quality index
- Bladderwort is back!
- Declining naiads? (next slide)





Large stand of milfoil in ~15 ft of water encountered while diving. Seeding new populations?



How can you ensure Beaver Lake stays healthy?

- Avoid large wakes
- Less is more
 - Salt
 - Fertilizer
- Pull floating milfoil fragments!
- Natural shorelines



FRIENDS OF BEAVER LAKE, Inc. -- FINANCIAL REPORT

Fiscal YTD	2023 FY Budget	Actual v. Budget	Proposed 2024 Budget
INCOME			
Donations	\$ 59,635.00	\$ 60,000.00	\$ (365.00) \$ 60,000.00
Interest	\$ 11.29	\$ 5,000.00	\$ (4,988.71) \$ 100.00
TOTAL INCOME	\$ 59,646.29	\$ 65,000.00	\$ (5,353.71) \$ 60,100.00
EXPENSES			
Awareness, Dinghy Ad, Picnic	\$ 1,404.00	\$ 3,000.00	\$ (1,596.00) \$ 3,000.00
Educational Events & Programs	\$ -	\$ 2,500.00	\$ (2,500.00) \$ 2,500.00
--Fishing Contest	\$ -	\$ 1,500.00	\$ (1,500.00) \$ 1,500.00
Legal Fees	\$ -		\$ -
Buoys	\$ -	\$ 600.00	\$ (600.00) \$ 600.00
Lake Projects	\$ -		\$ -
Lake Surveys--Plants: ev 3-5 yrs.	\$ -	\$ 2,500.00	\$ (2,500.00) \$ 2,500.00
--Fish: ev 3-4 yrs.	\$ 7,000.00	\$ 16,000.00	\$ (9,000.00) \$ 16,000.00
--WLC & Other	\$ 16,500.00	\$ 12,000.00	\$ 4,500.00 \$ 12,000.00
'--Milfoil		\$ 1,500.00	\$ (1,500.00) \$ 1,500.00
Fish--Stocking	\$ -	\$ 12,000.00	\$ (12,000.00) \$ 12,000.00
-- Cribs	\$ -		\$ -
Runoff & Erosion Evaluation/Control	\$ -	\$ 5,000.00	\$ (5,000.00) \$ 5,000.00
Shoreline Planting	\$ -	\$ -	\$ - \$ -
Water Qual. Surveys (Cason,UWSP)	\$ 776.00	\$ 400.00	\$ 376.00 \$ 400.00
Eurasian Milfoil Spraying (Cason)	\$ -	\$ 4,500.00	\$ (4,500.00) \$ 4,500.00
Total Lake Projects	\$ 25,680.00	\$ 61,500.00	\$ (35,820.00) \$ 61,500.00
Operating Expenses			
Accounting & Tax Service	\$ 1,250.00	\$ 700.00	\$ 550.00 \$ 700.00
Insurance	\$ -		\$ -
Annual Meeting	\$ -	\$ 300.00	\$ (300.00) \$ 300.00
Membership Fees--Other Lake Org.	\$ -	\$ 500.00	\$ (500.00) \$ 500.00
Misc Expenses & Fees	\$ 319.00	\$ 200.00	\$ 119.00 \$ 200.00
Office Supplies	\$ -	\$ 200.00	\$ (200.00) \$ 200.00
Postage & Mailings	\$ 316.05	\$ 500.00	\$ (183.95) \$ 500.00
WI Dept Fin Inst Annual fees	\$ 70.00	\$ 100.00	\$ (30.00) \$ 100.00
Website (Paid Thru 2022)	\$ 71.96		\$ 71.96
Total Operating Expenses	\$ 2,027.01	\$ 2,500.00	\$ (472.99) \$ 2,500.00
TOTAL EXPENSES	\$ 27,707.01	\$ 64,000.00	\$ (36,292.99) \$ 64,000.00
OPERATING INCOME / (LOSS)	\$ 31,939.28	\$ 1,000.00	\$ 30,939.28 \$ (3,900.00)
L.T. Fund Investment	\$ 31,500.00		
NET FOR FISCAL YEAR	\$ 439.28		
Month Ending Balance			
Checking Account ending in 1809	\$27,582.81		
Schwab	\$220,918.67		
WCCF Fund Investment	\$80,486.58		
Total	\$328,988.06		