

Caribou Lake Property Owners' Association

September 2, 2023 Annual Meeting



Agenda

Introduction of Board Members, Attendees, and Guests

I. Reports and Official Business

A. Approve Minutes of 2022 Annual Fall Meeting

B. Nomination and Election Of Board Members:

*Jeanne Anderson, Mike Nicklow, Charlie Austin, Julie Bittinger,
Sharon Hexum-Platzer, Larry Mullen, Fred Morris*

C. Treasures Report – *Tom Rider*

D. CCCoLA Report – *Irene Mullen*

E. Water Quality and AIS Report – *Larry Mullen*

Rusty Crayfish Update – Amanda Weberg Cook County AIS

F. Comments from Commissioner Storlie

II. Guest Speaker

Eric Otto Forest, Health Specialist at DNR – Spruce Budworm Infestation

III. Issues from the floor

Update of Wake Surfing ordinance

IV. Adjourn

CLPOA Treasurer's Report

9/1/22 to 8/31/23

Statement of Activities

9/1/22 to 8/31/23

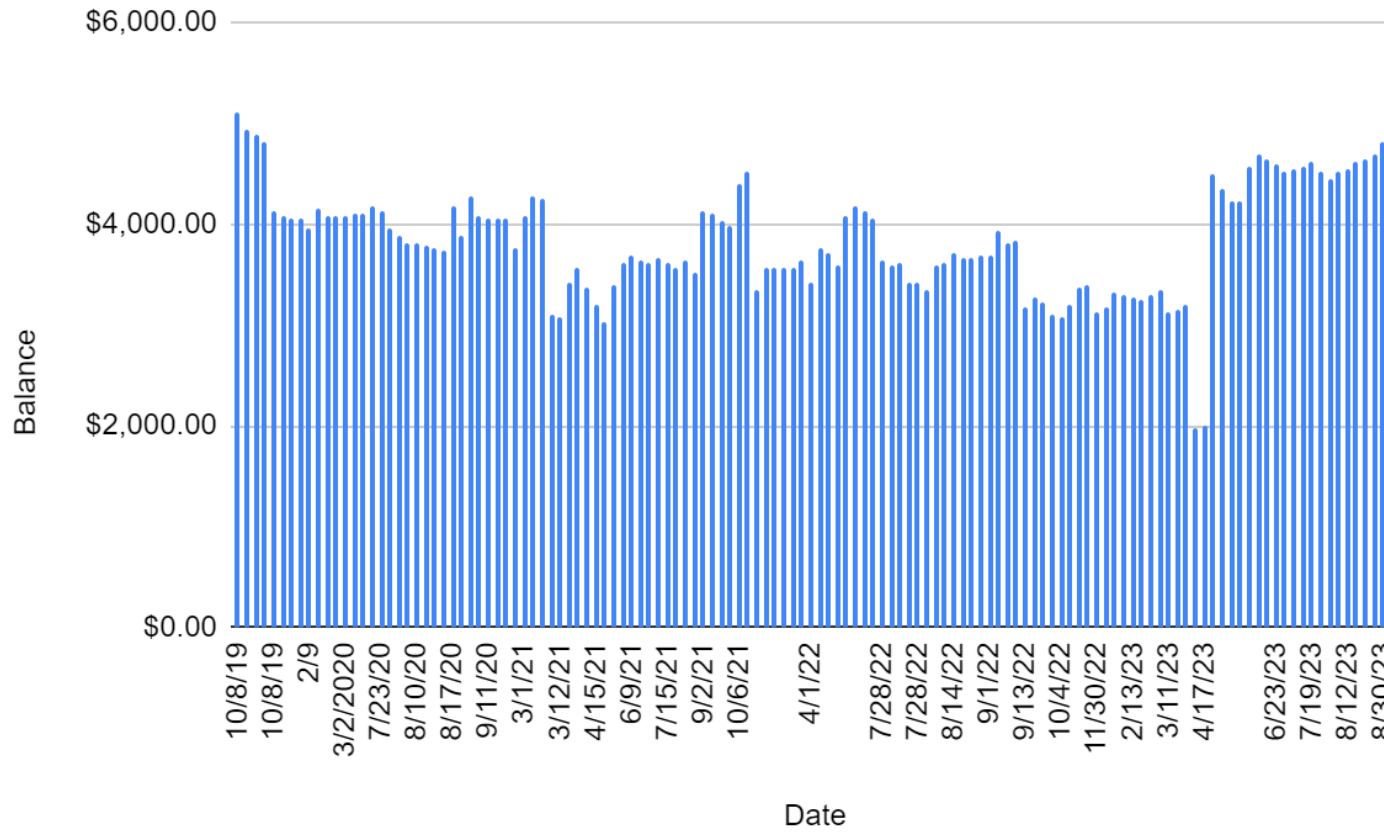
Income	
dues and donations	\$2,035.14
SSD reimbursement	\$2,494.02
interest	\$1.84
total income	\$4,531.00
Expenses	
shipping, postage	\$240.52
WQ testing	\$1,432.36
events	\$392.07
membership dues & donations	\$50.00
AIS	\$231.87
wake surfing ordinance	\$472.20
website	\$210.00
misc	\$375.00
Total	\$3,404.02
Net	
	\$1,126.98

Change in Cash Position

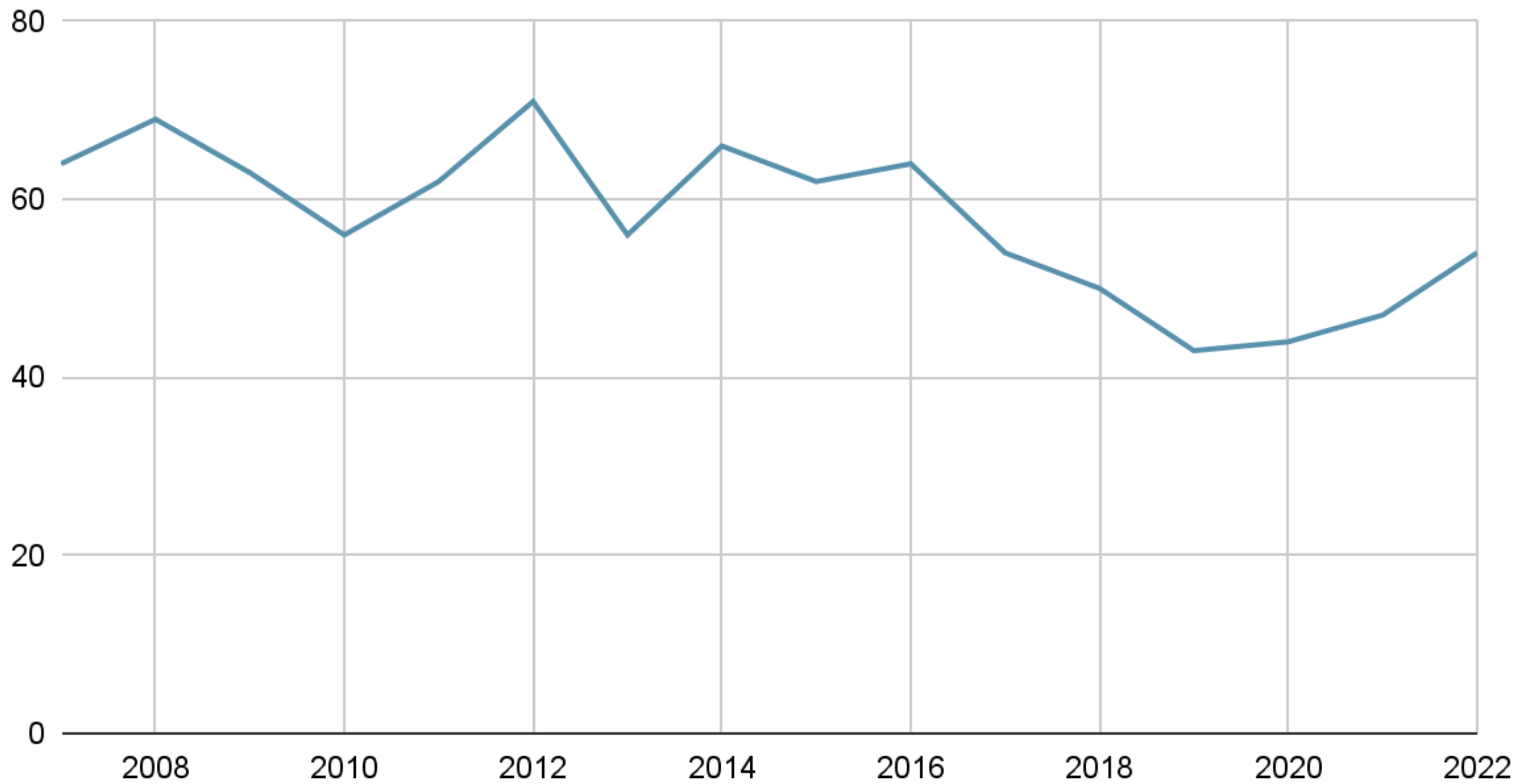
9/1/22 to 8/31/23

Opening balance 9/1/22	\$3695.83
additions	\$4531.00
subtractions	\$3404.02
Ending balance, 8/31/23	\$4822.65
difference	\$1126.98

Cash Balance History



Membership



How to pay dues

- Pay to me today. I can look up your contribution history if you are not sure when you paid last.
- Mail to PO Box 11, Lutsen MN 55612
- Pay with credit card on our website:
 - <https://caribou.mnlakesanddrivers.org/>
- THANK YOU!

CCCoLA Report

Cook County Coalition of Lake Associations

Cook County Coalition of Lake Associations 2023 Activities

15 Lake Association – Preserve, Protect, Participate

Board Members participation includes:

- County Vacation Rental Review Committee**
- County AIS Advisory Committee**
- County Soil and Water**
- Outreach – Radio – Newspaper – Fisherman's Picnic**
- Communication with County Commissioners**
- Objection Stance on Proposed Asphalt Plant near Tait Lake**
- Get The Lead Out Program**
- Joint Commission Rainy Lake Watershed**

Water Quality Report

Phosphorus
Chlorophyll-a
Secchi Disk
Calcium
Oxygen
Rusty Crayfish

5 Sampling Sites

(Used Historically)

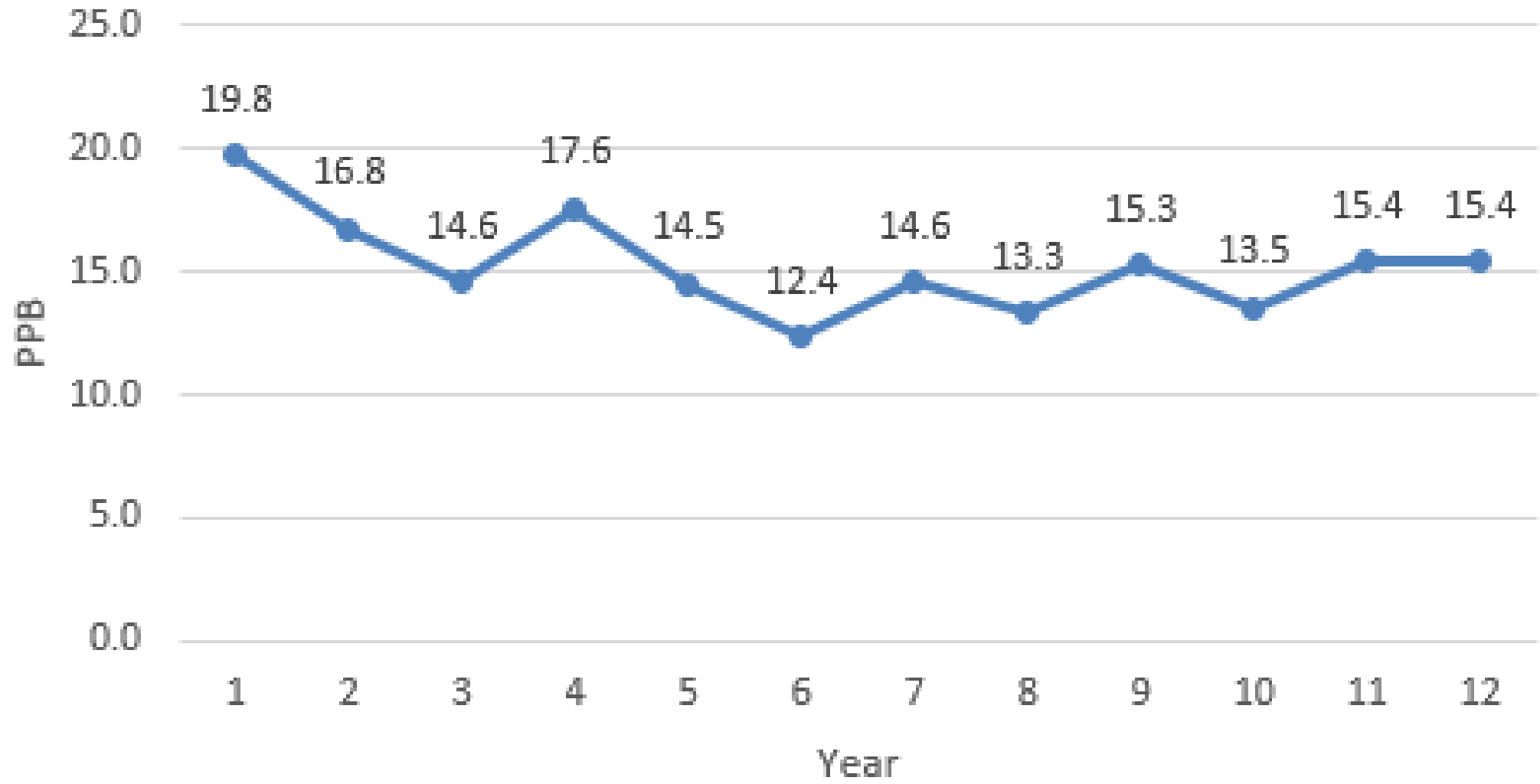


Phosphorus Goal 15 PPB or less

<u>Site</u>	<u>6/7</u>	<u>7/11</u>	<u>8/9</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	18.1	15.4	15.8		16.4
210 (Island)	9.1	17.1	18.0		14.7
205 (Fosters)	12.7	14.4	15.1		14.1
103 (Landing)	15.6	16.4	15.2		15.7
201 (Isthmus)	19.3	16.4	12.8		16.2
Average	14.9	16.0	15.4	0.0	15.4

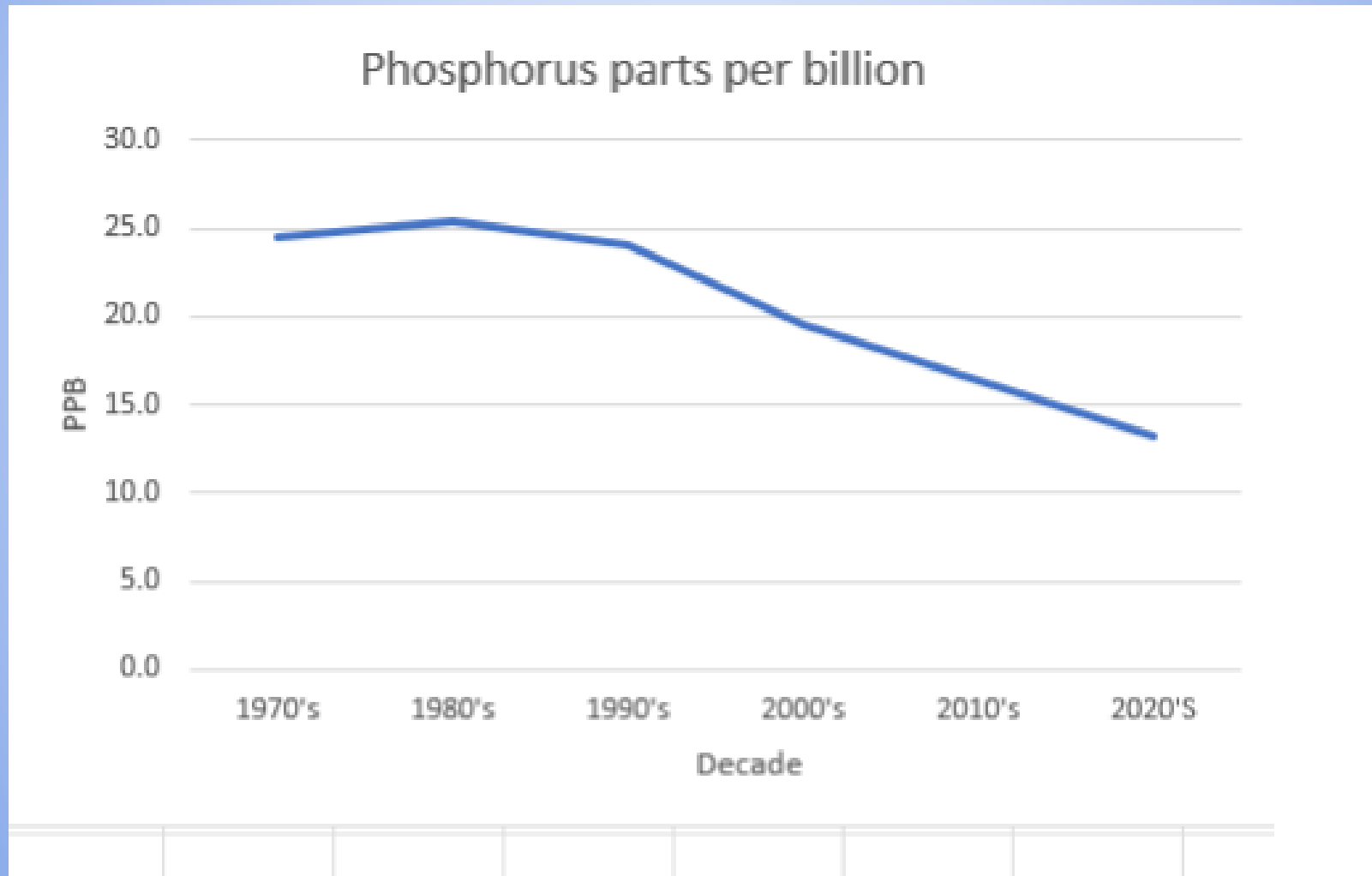
Phosphorus - Last 12 Years

Goal
or less
➔



2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

Phosphorus Testing History - site 205



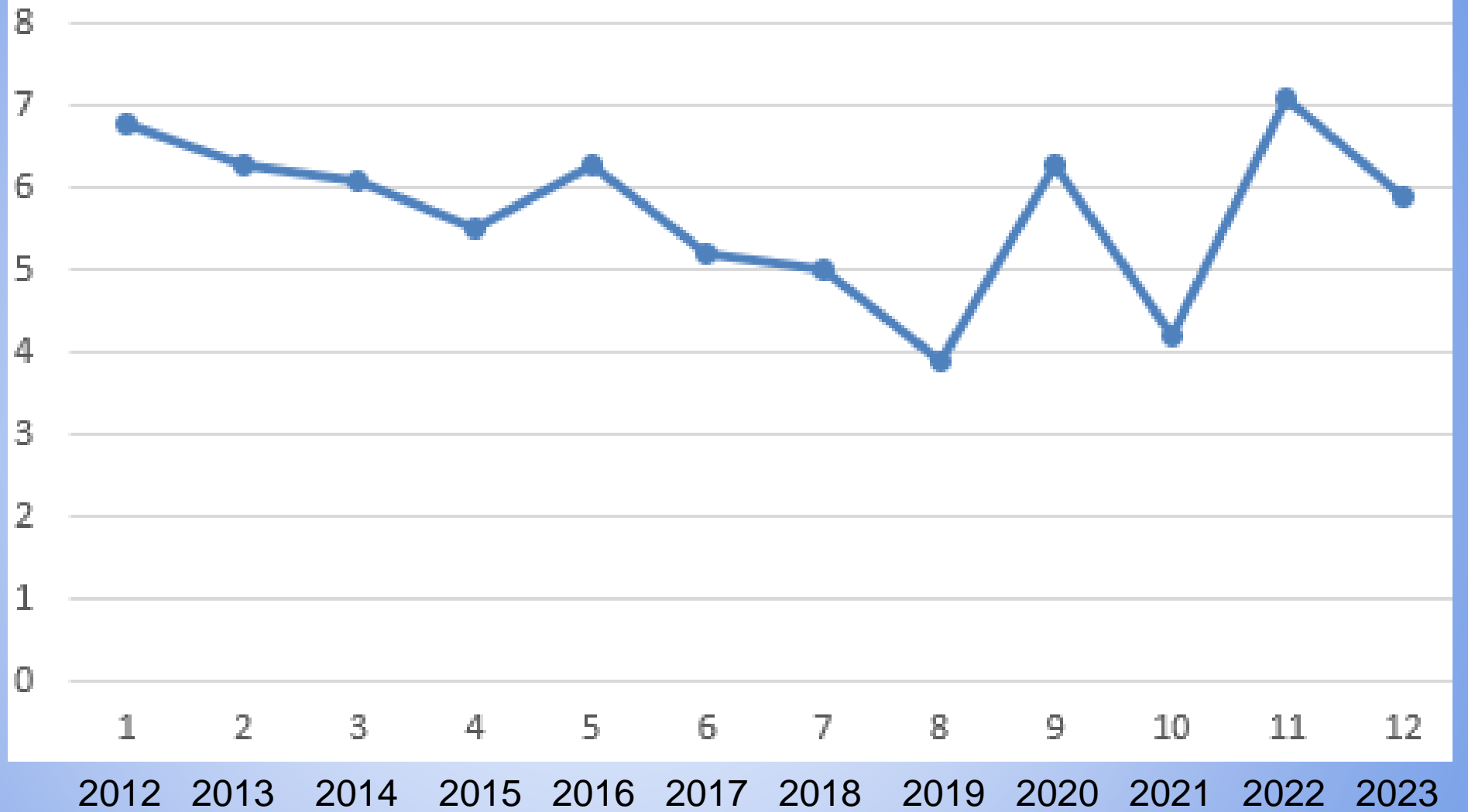
Chlorophyll-a Goal 8 PPB or less

<u>Site</u>	<u>6/7</u>	<u>7/11</u>	<u>8/8</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	3.7	6.9	5.3		5.3
210 (Island)	4.0	9.8	5.8		6.5
205 (Fosters)	4.3	7.7			6.0
103 (Landing)	3.5	8.0	5.9		5.8
201 (Isthmus)	3.7	8.0	5.3		5.7
Average	3.8	8.1	5.6	0.0	5.9

Chlorophyll-a Last 12 Years



Goal
or less



Secchi Disk Goal 6 feet of more

<u>Site</u>	<u>6/7</u>	<u>7/11</u>	<u>8/8</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	7.5	7.0	6.5		7.0
210(Island)	7.5	5.0	7.5		6.7
205 (Fosters)	8.0	7.0	6.5		7.2
103 (Landing)	7.0	6.5	6.0		6.5
201 (Isthmus)	7.5	6.5	7.5		7.2
Average	7.5	6.4	6.8	0.0	6.9

Oxygen and Temperature - Site 205 (Bottom 28 feet)

Surface water normal 8 milligrams per liter or more

Date	3 feet		12 feet		24 feet	
	<u>Temp</u>	<u>Oxy mg/l</u>	<u>Temp</u>	<u>Oxy mg/l</u>	<u>Temp</u>	<u>Oxy mg/l</u>
8/08/2023	73.3	9.0	72.1	7.5	59.5	0.3
7/21/2021	74.0	8.7	73.0	8.5	67.0	1.0
8/11/2019	74.0	8.6	72.0	8.7	66.0	4.0
8/07/2018	71.0	8.3	70.0	8.0	68.0	4.0
8/01/2016	75.0	8.3	74.0	7.8	71.0	3.5
8/13/2015	73.0	8.9	72.0	8.0	69.0	4.9

Rusty Crayfish Trap Locations

Traps out for 26 days so far



Rusty Crayfish – 6,037 harvested this summer plus NRRI Harvest

- An Invasive Species
- Discovered first in Caribou Lake by the USFS in 2020
- Suspected to have migrated from Pike lake where they were suspected to have been transported and released by anglers who were using them as bait.
- Large and aggressive
- Because of size, hard to be preyed upon by native species of fish
- They destroy fish habitat by eating aquatic plants and insects – causes fish populations to decline by losing nesting substrate, rob shelter from small fish and invertebrates, and increase erosion of sediment.
- They displaces the native crayfish population
- 1087 harvested in 2021
- 3,942 harvested in 2022

Varying Sizes and Approximate Percent of Total



Daily Average by Location



Rusty Harvest

Day Total



Lake Resident Rusty Crayfish Boil



Rusty and Rice
Caribou & Bigsby Lakes
NRRI, UMD, USFS, SWCD

A large yellow right-angled triangle is positioned in the bottom right corner of the slide, pointing towards the top left.

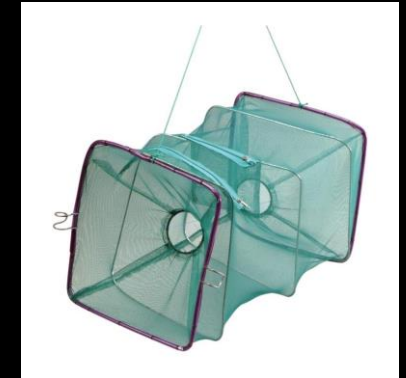
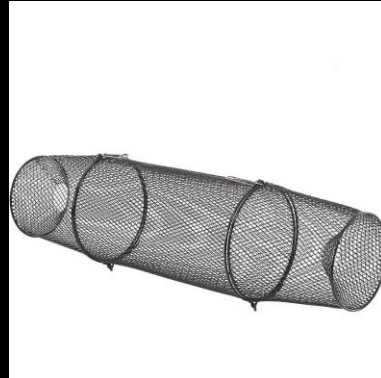
Methods

Traps

- Standard minnow traps
- Extra large minnow traps
- PVC refuge traps
- 3 pods containing: 1 standard trap, 1 extra large trap, 1 large mesh box trap

Bait

- 3 flavor pack of meow mix pate seafood wet cat food
- Hot dog – pellet cup
- Smelt – pellet cup





Bigsby Lake

Caribou Lake

Caribou Lake



Ward Lake Rd

1500 ft





Preliminary Data

June 12th

- Over 2,000 crayfish were trapped
- 900 large crayfish were marked and released
- Bait: 1st smelt, 2nd cat food, 3rd hot dog
- Trap type mattered less than bait type

August 14th

- Data not entered. Stay tuned.



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