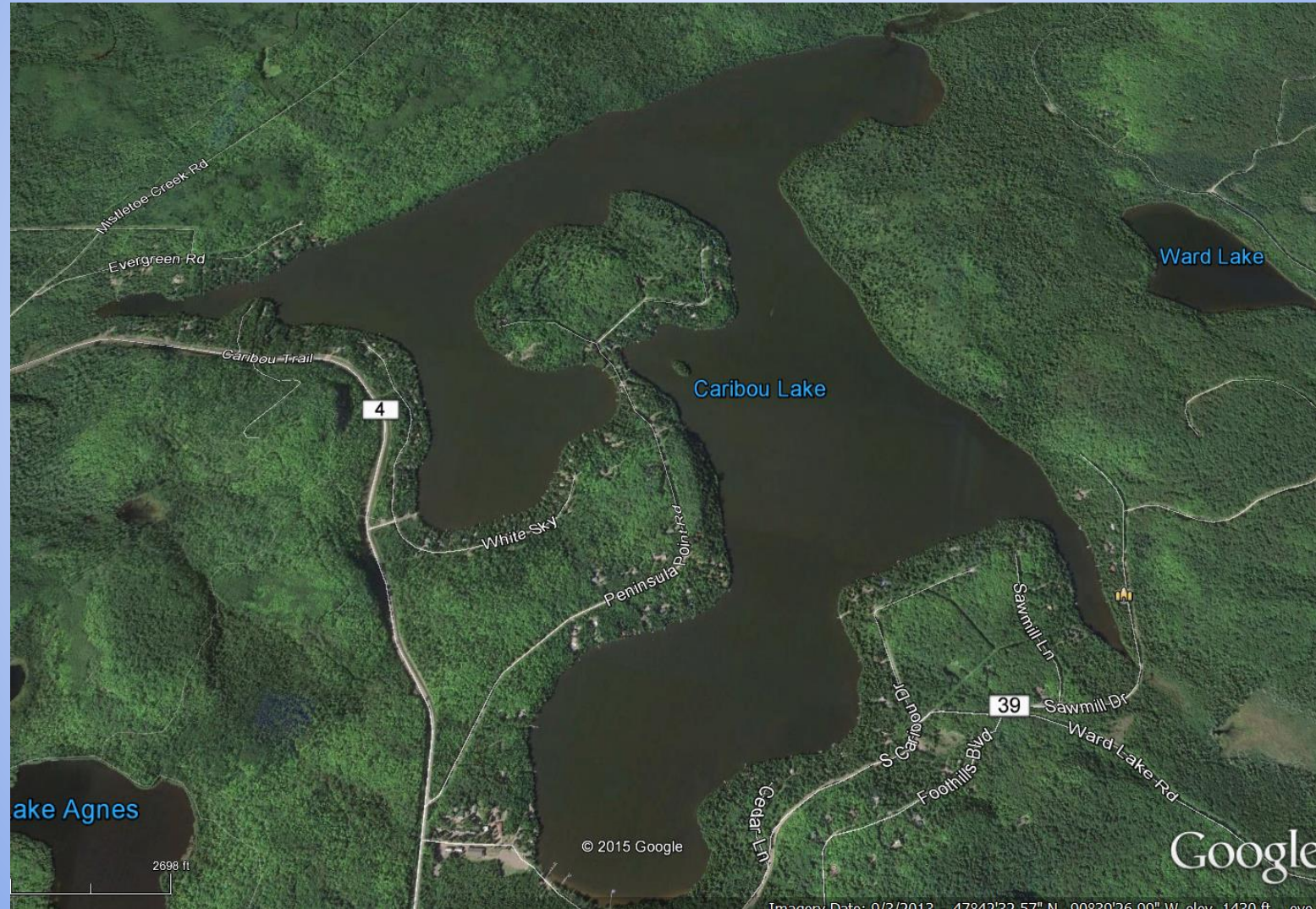


Caribou Lake Property Owners' Association

August 31, 2024 Annual Meeting



Caribou Lake Property Owners' Association Annual Meeting
August 31, 2024, 10:00-11:50 AM

AGENDA

Introduction of Board Members

- Guest Speaker, Bob Thompson, Cook County Assessor (10:00 – 10:30)
- Reports and official business
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 - Nomination and Election of Board Members (10:35 – 10:40), nominees: Tom Rider, Karl Karst, Lisa Miller Johnson, Tom Flink
 - Treasurer's report – Charlie Austin (10:40 – 10:50)
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CLPOA Treasurer's Report

9/1/23 to 8/31/24

Statement of Activities

9/1/22 to 8/31/23

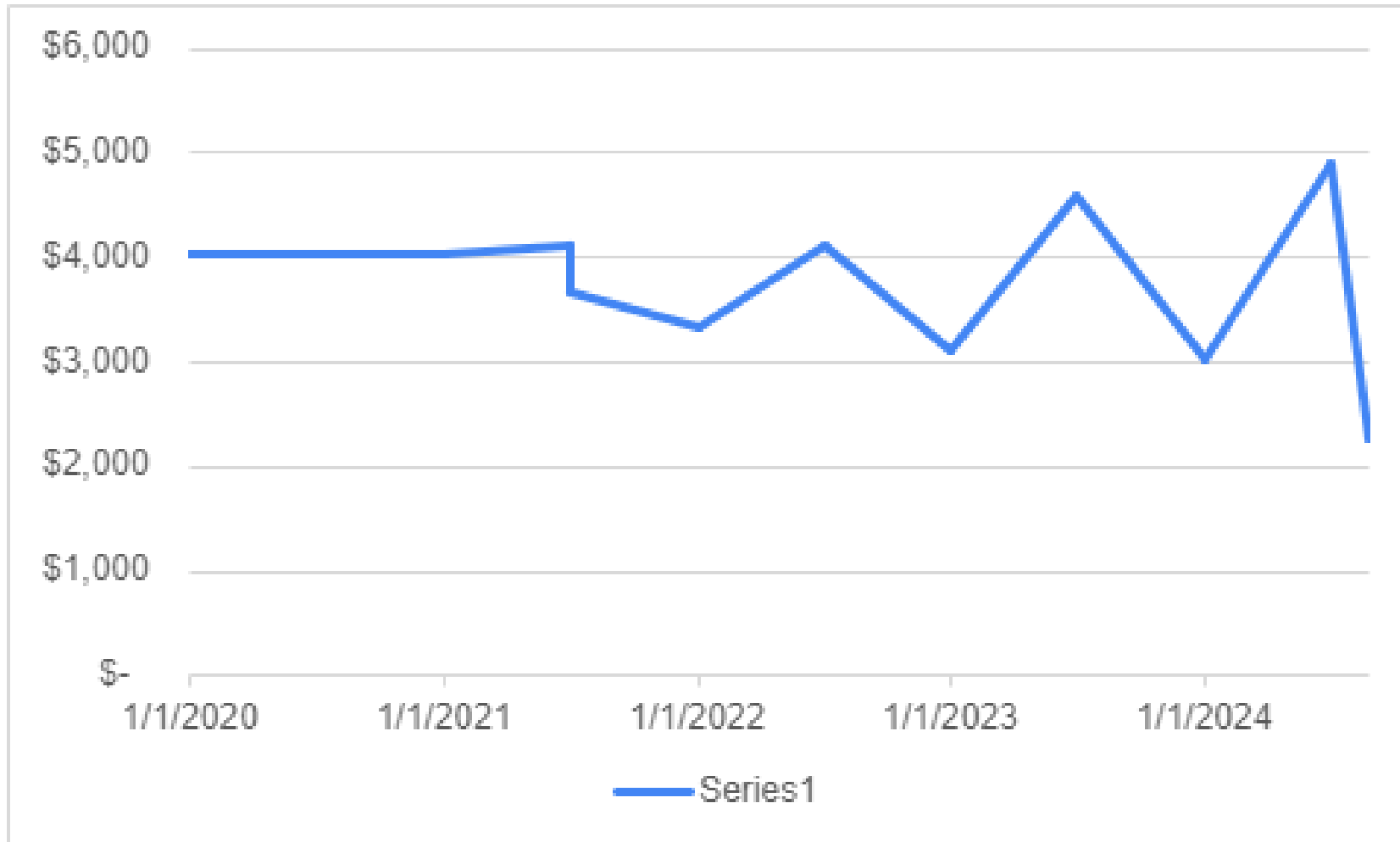
Income	
dues and donations	\$2,949
SSD reimbursement	\$1,830
interest	\$1.
total income	\$4,780
Expenses	
shipping, postage	\$231
WQ testing	\$1,709
events	\$528
membership dues & donations	\$100
wake surfing ordinance	\$472.20
website	\$210.00
misc	\$375.00
Total	\$3,404.02
Net	\$1,357
AIS (rusty crayfish)	\$3,903
Net	(\$2,546)

Change in Cash Position

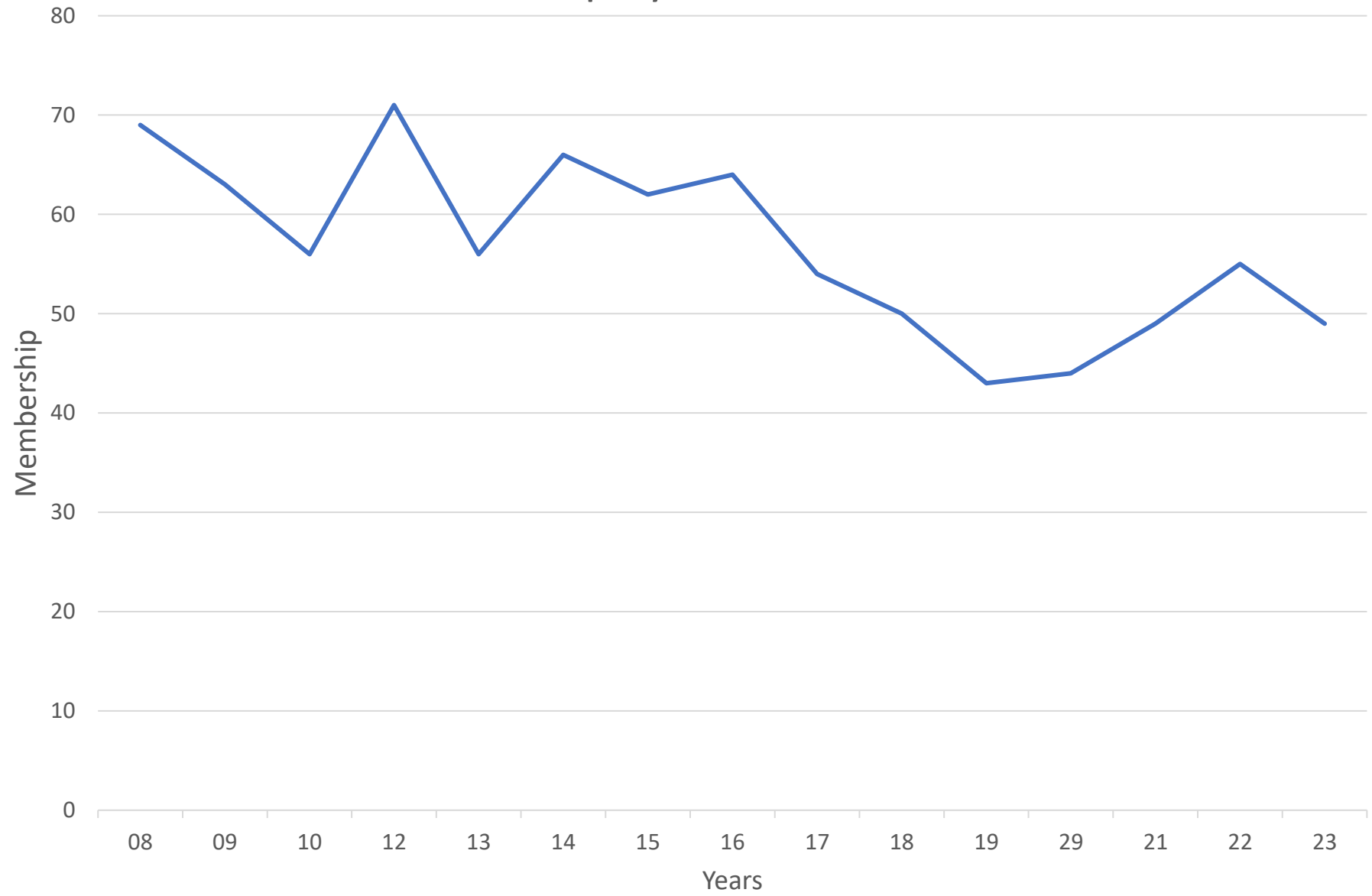
9/1/22 to 8/31/23

Opening balance 9/1/22	\$4,823
additions	\$4,780
subtractions	\$7,330
Ending balance, 8/31/23	\$2,273
difference	(\$2,550)

Cash Balances 2020 to today



Membership by Year



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!

Caribou.mnlakesandrivers.org

The screenshot shows a web browser window with the URL `secure.myvanco.com/L-ZECD/home`. The browser's address bar and tabs are visible at the top. The website header includes the logo for the Caribou Lake Property Owners Association and navigation links for Home, Profile, and Basket. A search bar is located below the header. The main content area features three fundraising cards:

- 2024 Membership Dues:** Includes a photo of a lake and the text: "Help us promote clean water, preserve shoreline aesthetics, and combat AIS for Caribou Lake." A "Give now" button is at the bottom.
- Donation:** Includes a photo of a marshy area and the text: "Do even more to help us promote clean water, preserve shoreline aesthetics, and combat AIS for Caribou Lake." A "Donate now" button is at the bottom.
- Rusty Crayfish Harvesting Fund:** Includes a photo of a crayfish and the text: "Support our efforts to control the spread of rusty crayfish in Caribou Lake." A "Donate now" button is at the bottom.

The footer contains contact information for the Caribou Lake Property Owners Association, including the email `tom@lutsen.com`, phone number `(218) 340-8182`, and address `292 Peninsula Point Trail, Lutsen, MN 55612`. It also includes copyright information for Vanco and links to Terms and Privacy pages.

Cook County Coalition of Lake Associations

18 board members made of Lake Associations, Road Associations and individuals
Protect Preserve Participate - Lakes of Cook County

What's Happening

- **Get the Lead Out** – Bucks is still collecting old tackle
- **Fisherman's Picnic** – Booth with a spinning game where kids and their families tried to answer questions about AIS, Shoreline Protection, Septic Use – great way to talk to others about best practices
- **Septic Workshop** – Cook County Higher Ed – video is on CCoLA website – flyer – given to Cascade Rentals and others who rent out their cabins.
- **AIS** -Other lakes are now putting up signs like Caribou's
- **Wake Surfing** -Pike Lake and Poplar Lake have asked to see Fred's binder
- **Shoreline Protection** best practice
- **Ilena Hansel, CCSW** – shared budget and funding resources, \$60,000 from County, the same for the last 6 years
- **Ann Sullivan, Cook County Commissioner**, has been attending our meetings and is our liaison with the County.



This property uses a septic system and we need your help to keep it working properly.

Toilets



- Flush only human waste and toilet paper.
- No sanitary napkins, tampons, disposable diapers, wipes, paper towels, cat litter, etc.

Sinks



- Liquids only
- No fats, oils or grease
- No solvents, paint thinners, or disinfectants
- Discard coffee grounds, food debris, etc. in trash

Water Use



- Conserve water
- Avoid showering, dishwashing, toilet flushing, etc. at the same time so the septic system doesn't become overloaded

Report Problems



If you notice a back-up, drain malfunction or foul order, call right away.

Water Quality Report

Phosphorus
Chlorophyll-a
Secchi Disk
Oxygen

5 Sampling Sites

(Used Historically)

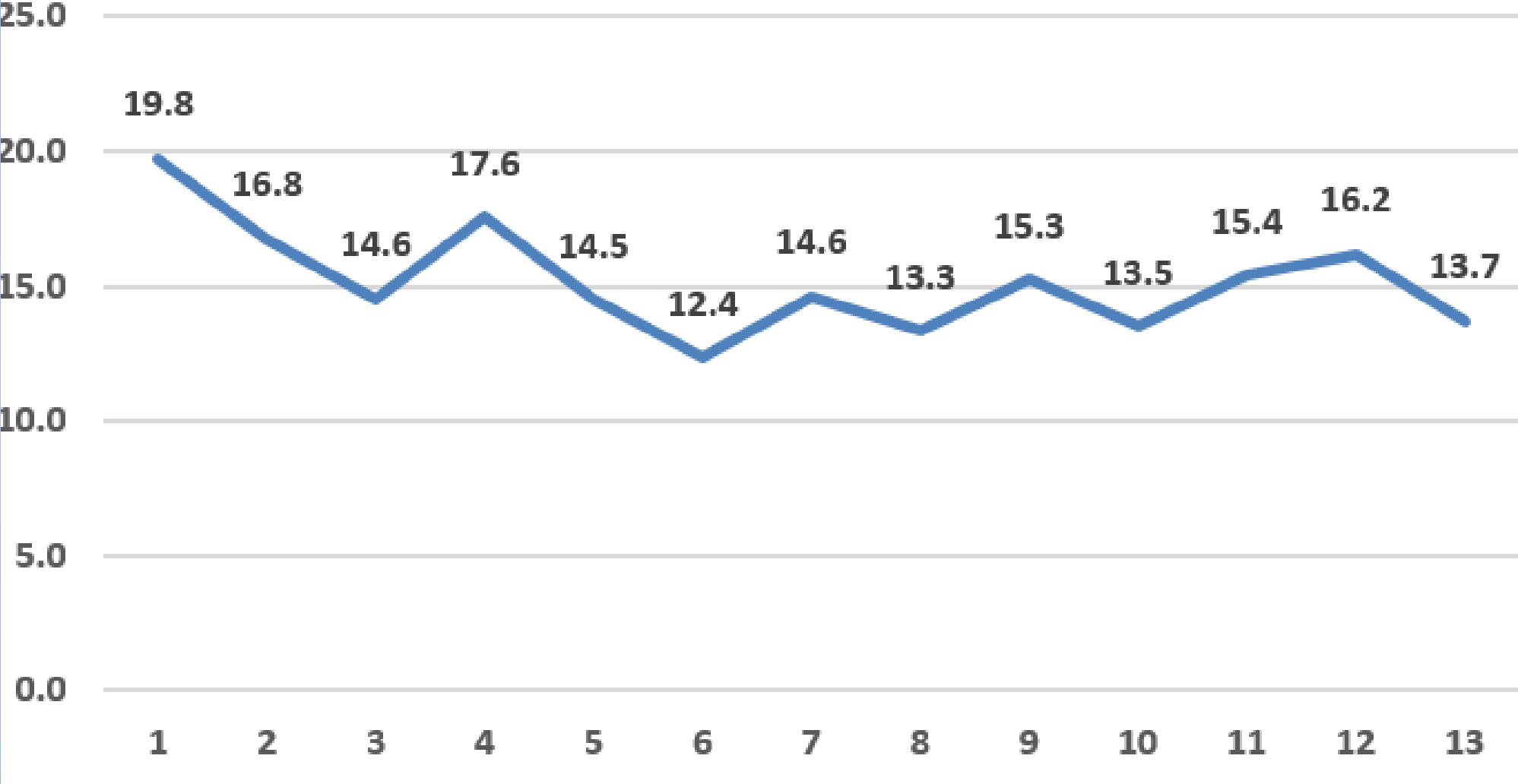


Phosphorus Goal 15 PPB or less

<u>Site</u>	<u>5/29</u>	<u>6/26</u>	<u>7/31</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	14.5	13.8	14.9		14.4
210 (Island)	9.1	14.3	13.4		12.3
205 (Fosters)	11.6	17.4	12.9		14.0
103 (Landing)	21.8	11.0	15.0		15.9
201 (Isthmus)	11.0	13.9	11.4		12.1
Average	13.6	14.1	13.5	0.0	13.7

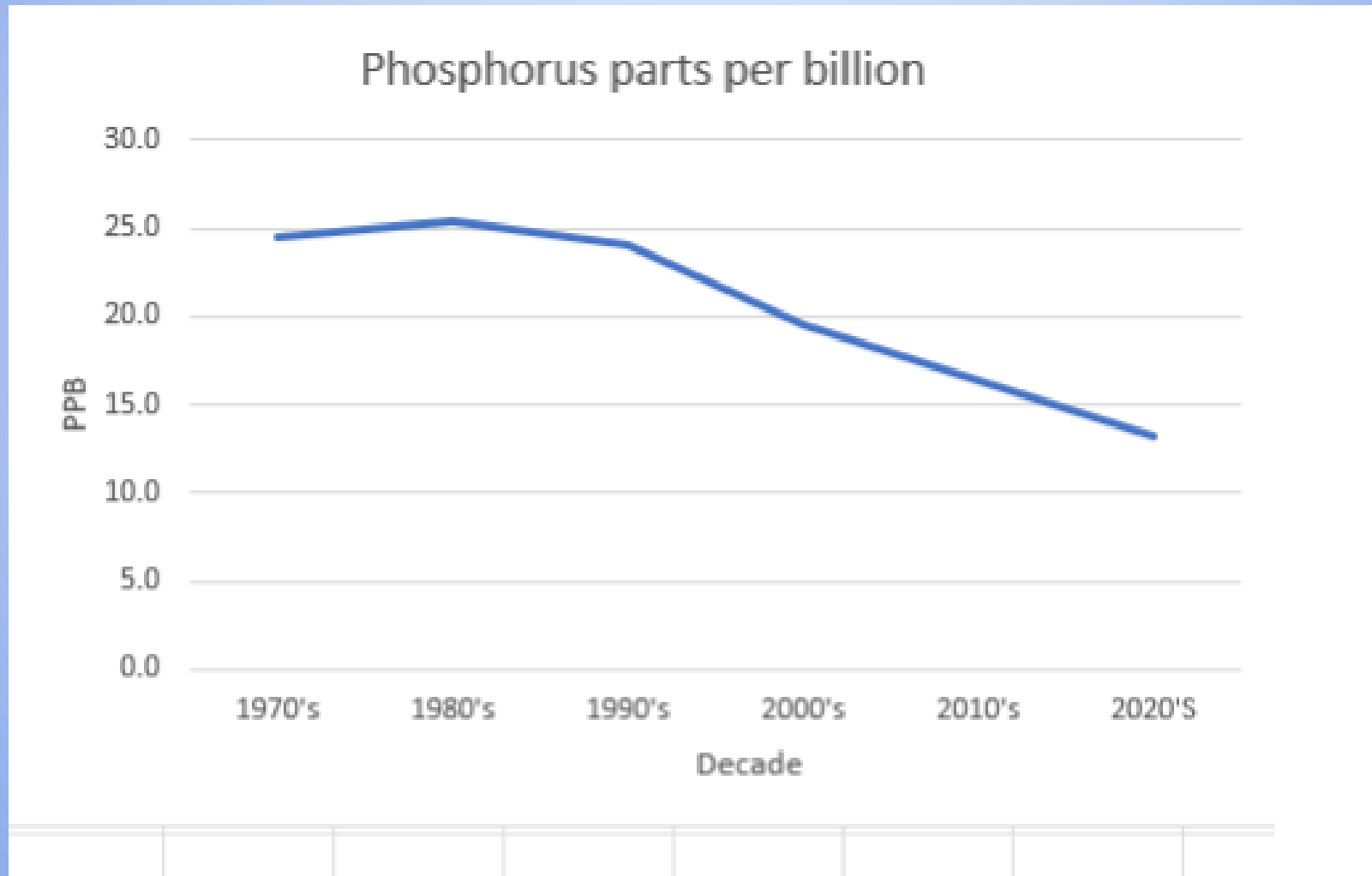
Phosphorus 13 Year Trend

Goal
or less
→



2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

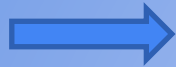
Phosphorus Testing History - site 205



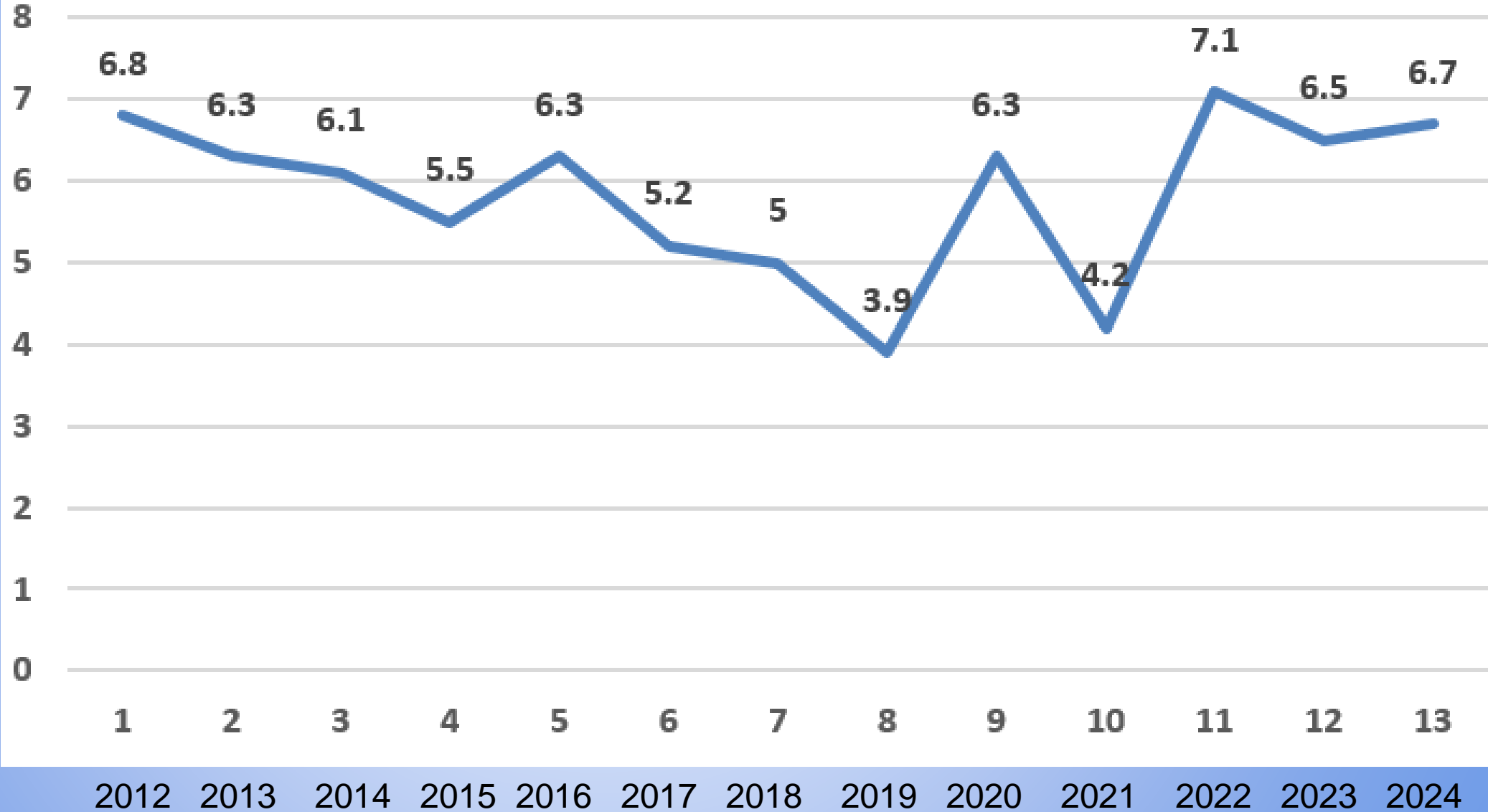
Chlorophyll-a Goal 8 PPB or less

203 (Camp)	NA	7.5	8.0		7.7
210 (Island)	6.4	7.5	10.7		8.2
205 (Fosters)	6.4	8.0	8.0		7.5
103 (Landing)	5.9	3.3	4.7		4.6
201 (Isthmus)	6.4	4.6	5.3		5.4
Average	5.0	6.2	9.2	0.0	6.7

Chlorophyll-a 13 Year Trend



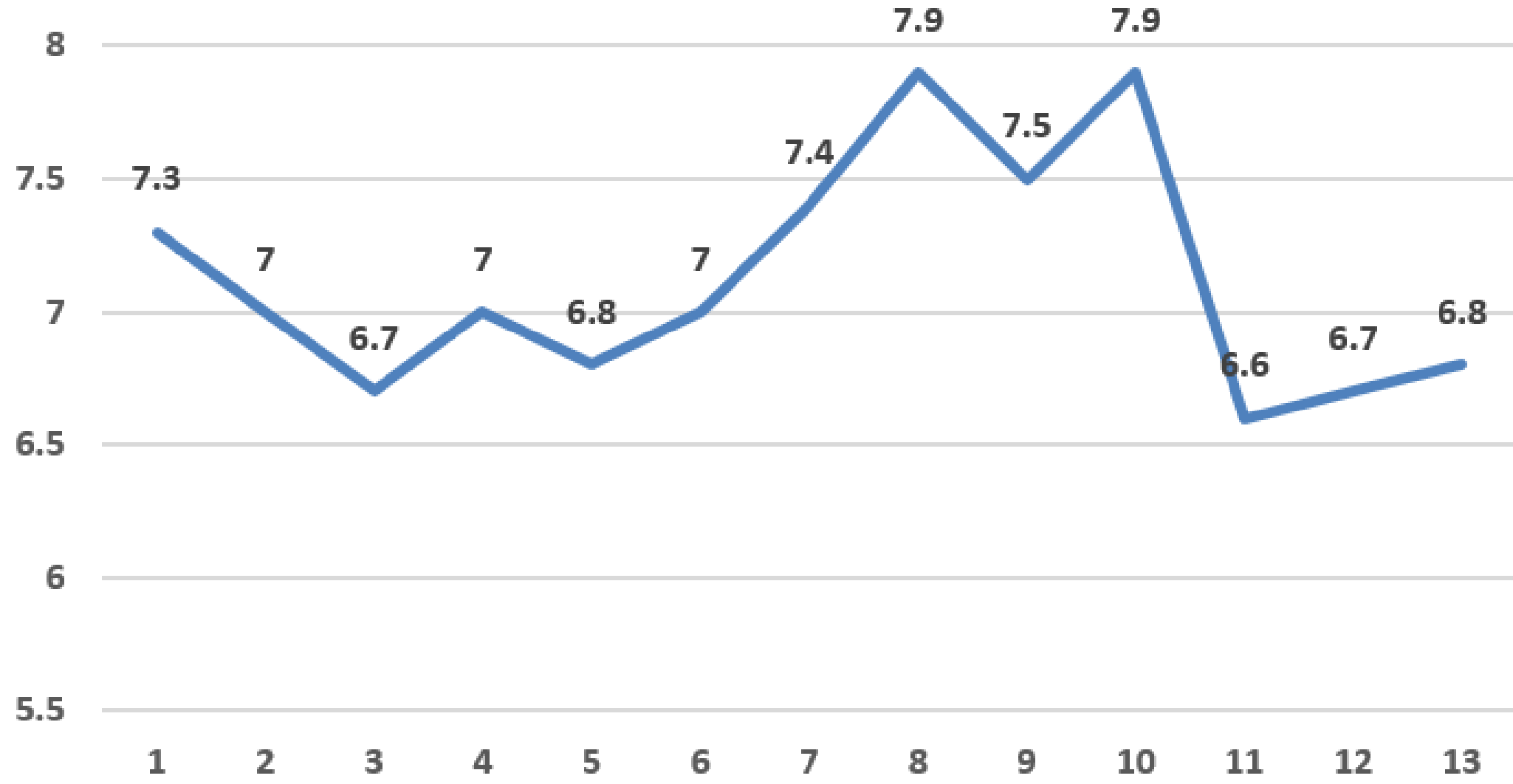
Goal
or less



Secchi Disk Goal 6 feet or more

<u>Secchi (Feet) Goal is 6 or more</u>					
203 (Camp)	7.5	7.0	7.0		7.2
210 (Island)	7.0	7.0	6.0		6.7
205 (Fosters)	7.5	7.0	6.5		7.0
103 (Landing)	7.0	7.0	6.0		6.7
201 (Isthmus)	7.0	6.5	6.0		6.5
Average	7.2	6.9	6.3	0.0	6.8

Secchi Dish 13 Year Trend



Goal
or more

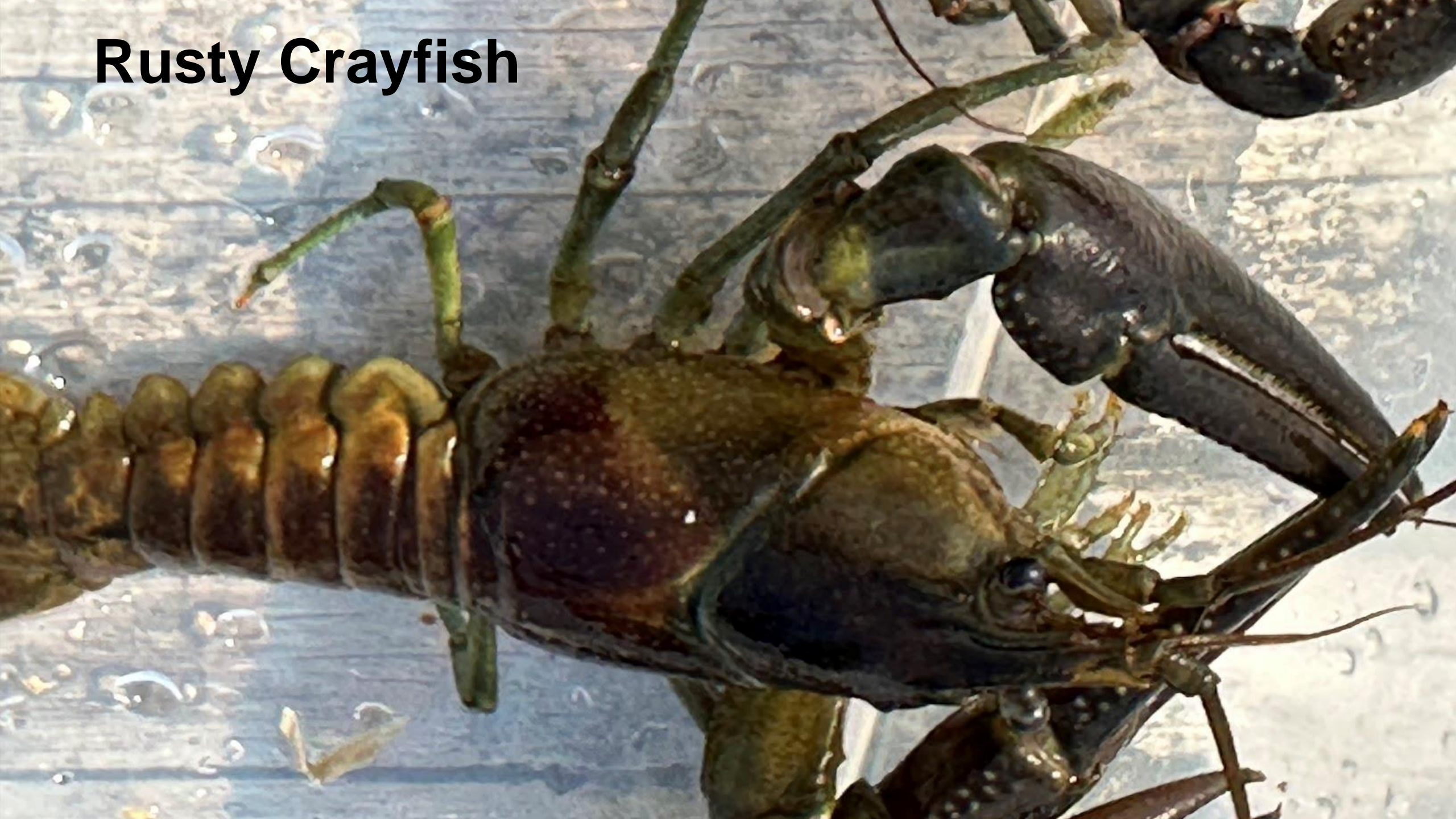


Oxygen and Temperature - Site 205 (Bottom 28 feet)

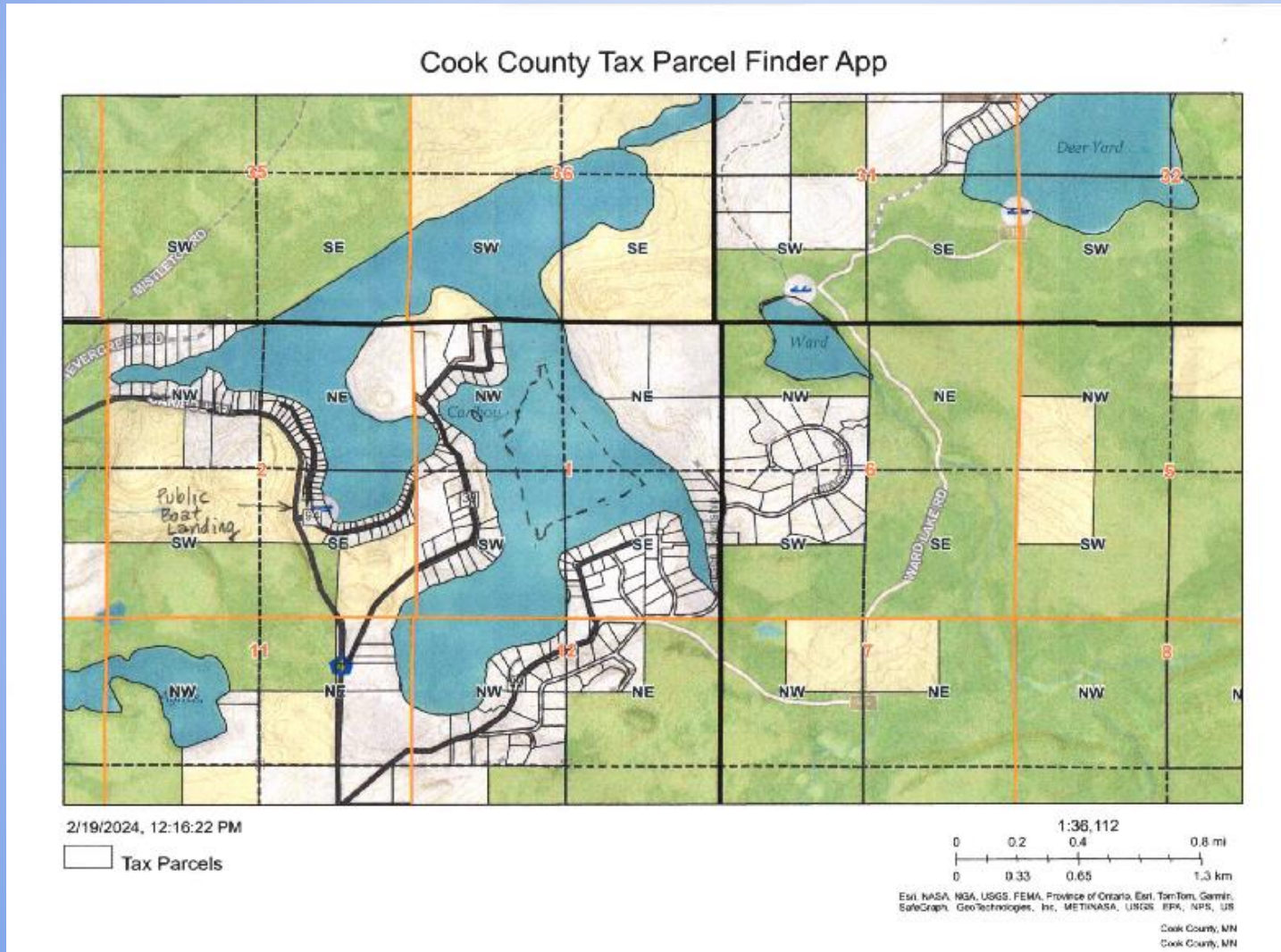
Surface water normal 8 milligrams per liter or more

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>
8/20/2024	70.3	9.2	69.4	8.5	66.2	3.4
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



- How did they get here? Where are they now?



- What is the harm caused?
 - Native crayfish eliminated
 - Native grasses eliminated
 - Trap sediment
 - Absorb nutrient pollution
 - Add dissolved oxygen
 - Nursing environment for fish
 - Fish population declines
 - Property values?

- What can we do about it?
 - Nothing
 - Harvesting
 - Physical barrier – not allowed
- Is there evidence that Harvesting will work?
 - Yes!
 - Pike Lake (anecdotal)
 - Woman Lake

What did we do this summer?

- Hired Crowdaddies to harvest for 6 weeks
- NRRI, harvested two weeks
- Volunteer effort to supplement

Harvest Totals for Summer 2024

- Crawdaddies, contract = 28,768 (8 lines, 60 traps, 6 weeks)
- Crawdaddies, on their own = 5,094
- NRRI: 133 lbs = 6,650 (2 weeks)
- Volunteers = 4,000
- Total 2024 = 44,512 crayfish

- Total harvest, 2023:
 - Larry 6,037
 - NRRI 5,100
 - Volunteers 1,500
 - Total 2023: 12,637 crayfish

What should we do next summer and beyond?

- What we are doing this summer is not sustainable
 - Costs > revenue
 - If we harvest, most sensible funding mechanism is SSD – all lakeshore landowners participate
 - Current SSD: \$60 every five years, \$12/year
 - For WQ and AIS
 - There was strong support among membership at spring meeting to increase SSD to address AIS

New SSD Options Worksheet

of private riparian landowners 138
cost/week Crawdaddies 625

<u># weeks</u>	<u>total cost</u>	<u>WQ costs</u>	<u>total</u>	<u>SSD levy per taxpayer</u>	<u>SSD levy, cost/year</u>
current			8280	60	12
2	1250	1600	2850	103	21
4	2500	1600	4100	149	30
6	3750	1600	5350	194	39
8	5000	1600	6600	239	48

Proposal for SSD - \$250 Every Five Years

- That's \$50/year.

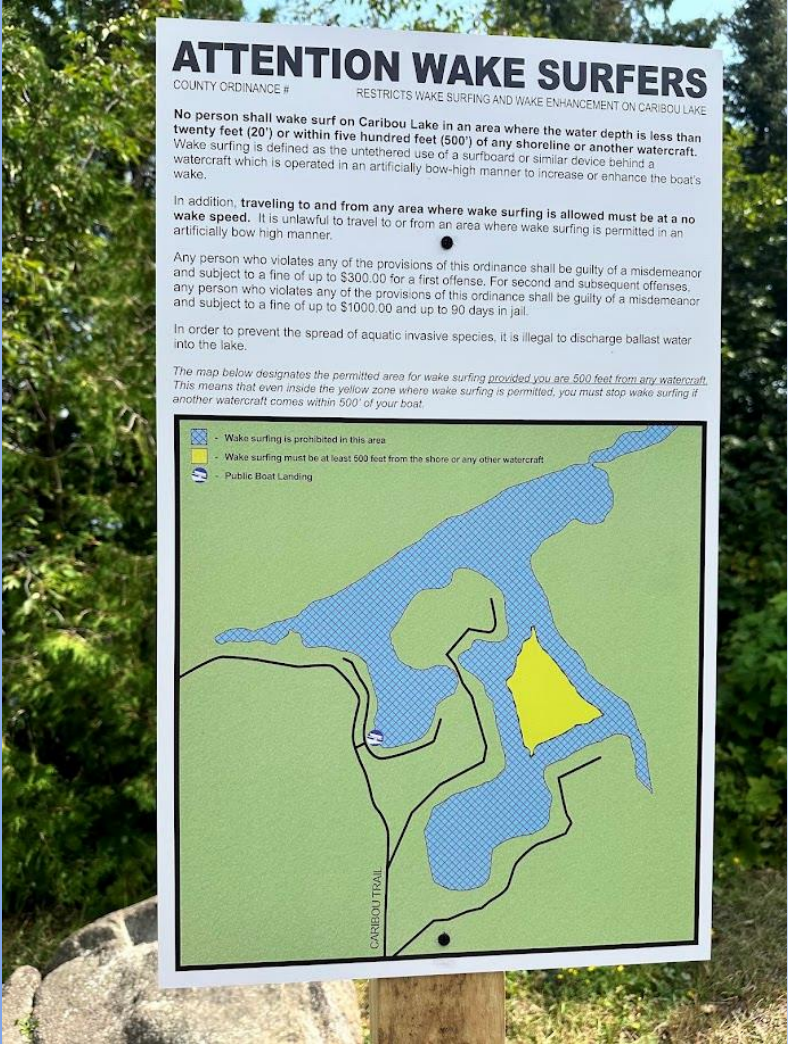
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New Wake Surfing Sign at Caribou Public Boat Landing

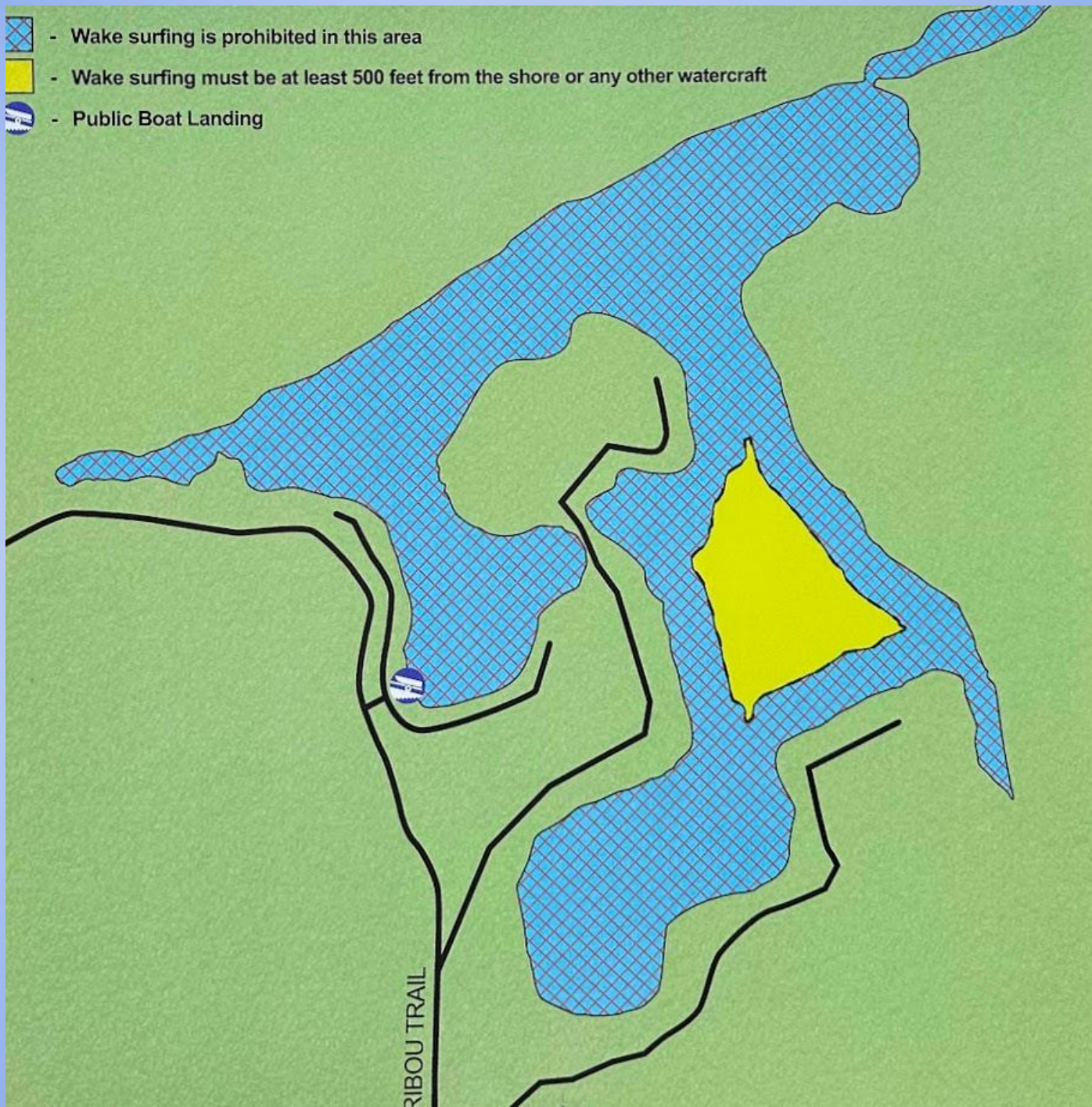




- Wake surfing is prohibited in this area

- Wake surfing must be at least 500 feet from the shore or any other watercraft

- Public Boat Landing



Extras

Rusty Crayfish

- 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
- 6037 harvested plus NRRI harvest in 2023

Varying Sizes and Approximate Percent of Total



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

