

# Caribou Lake Property Owners' Association

September 3, 2022 Annual Meeting



## Agenda

Introduction of Board Members, attendees, and guests

### **I. Reports and official business**

- A. Treasurer's report - Tom Rider
- B. CCCoLA report - Irene Mullen
- C. Water quality report - Larry Mullen
- D. Rusty Crawfish and AIS report - Larry Mullen
- E. Comments from Commissioner Storlie
- F. Wake Boat issue - Karl Karst/Fred Morris
- G. Nomination and election of Board Members
  - Tom Rider and Karl Karst are up for re-election

### **II. Guest Speakers**

- A. Dominique Menard from Sugarloaf Cove Nature Center

### **III. Issues from the floor**

### **IV. Adjourn**

# CLPOA Treasurer's Report

September 3, 2022

# Statement of Activities

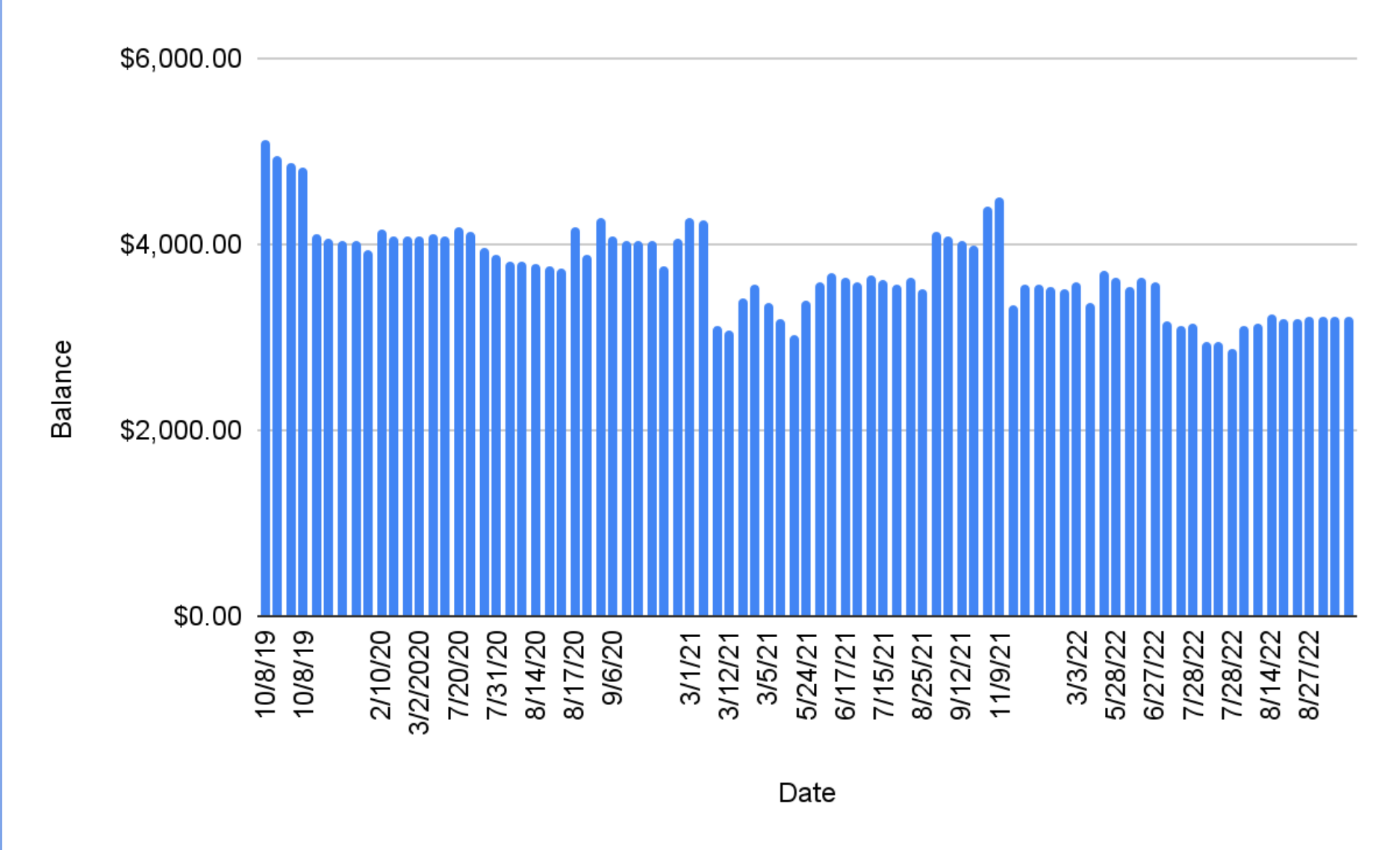
September 1, 2021 to August 31, 2022

<b>Income</b>	
Dues and donations	\$2,005.00
Miscellaneous income	\$275.00
interest	\$3.83
<b>Total income</b>	<b>\$2,283.83</b>
<b>Expenses</b>	
Shipping, postage	\$235.46
Water quality testing	\$1,180.00
events	\$222.04
Donations	\$460.00
AIS	\$483.64
<b>Total Expenses</b>	<b>\$2,581.14</b>
<b>Net</b>	<b>(\$297.31)</b>

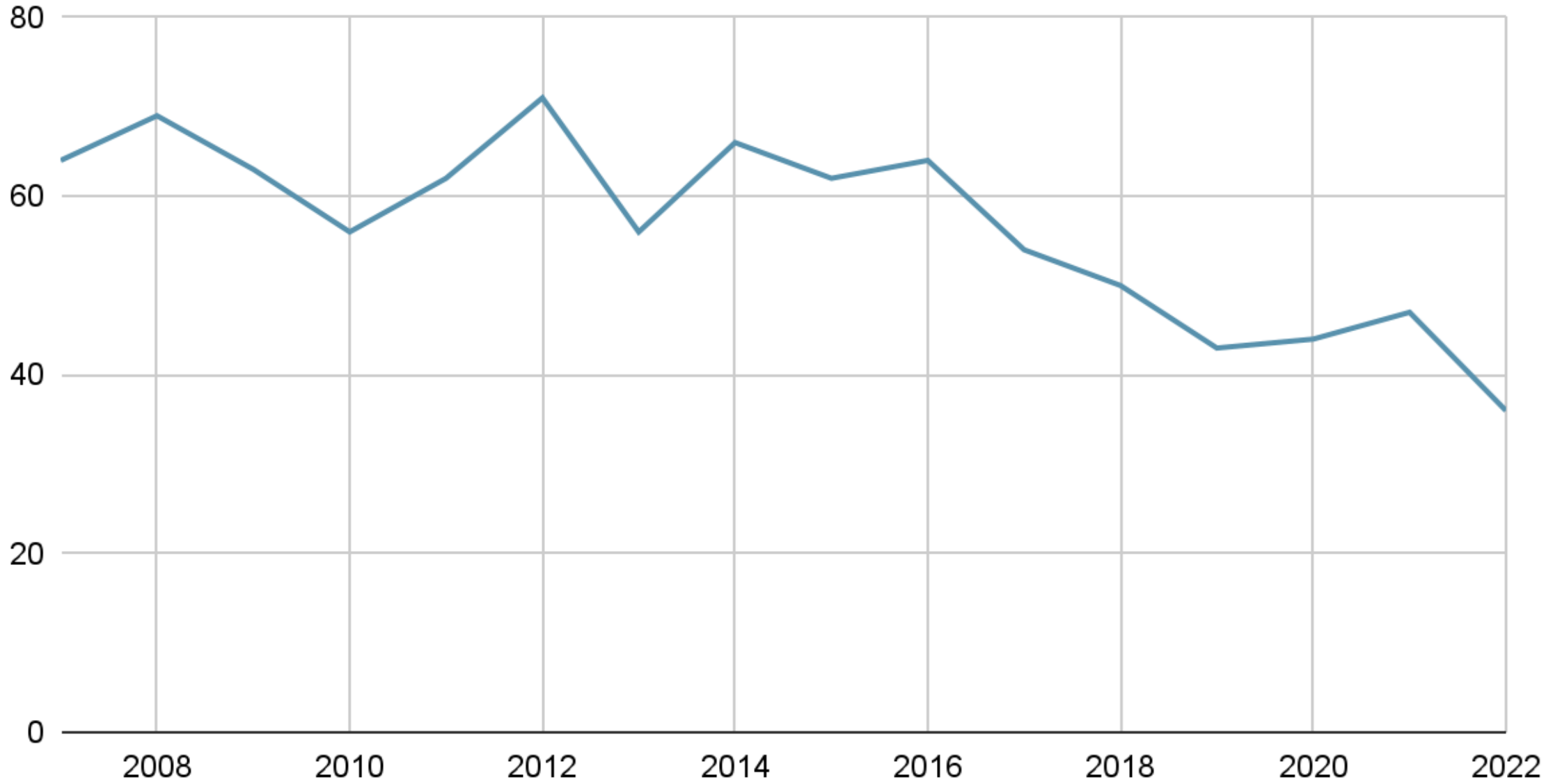
# Balance Sheet

September 1, 2021 to August 30, 2022	
Opening bank balance 9/1/21	\$3,525.00
additions	\$2,283.83
subtractions	\$2,581.14
Closing Balance, 8/30/22	\$3,227.69
difference	-\$297.31

# Checking Balance History



# Membership



# CCCoLA Report

Cook County Coalition of Lake Associations



# Cook County Coalition of Lake Associations 2022 Activities

- New members from Loon and Greenwood lakes – total now 19 lake/road association members
- Member of Mn COLA, Mn Lakes and Rivers, & contributes to UofM wake boat/wake surfing study
- *Lakes and Lake Workshop*, DNR, Sheriff, Land Services, Soil and Water, Visit Cook County held in June
- Jeff Forester spoke at August meeting
  - Lake shore owners need to unite
  - More state aid to counties would affect our real estate taxes
  - No bills related to environment were addressed last year
- Working with Soil and Water on Lake Plans, calcium testing & survey
- Micro plastic –promote paper products
- Provide improved signage at county boat landings

# Water Quality Report

Phosphorus

Chlorophyll-a

Secchi Disk

Rusty Crayfish

DNR Fish Survey

# 5 Sampling Sites

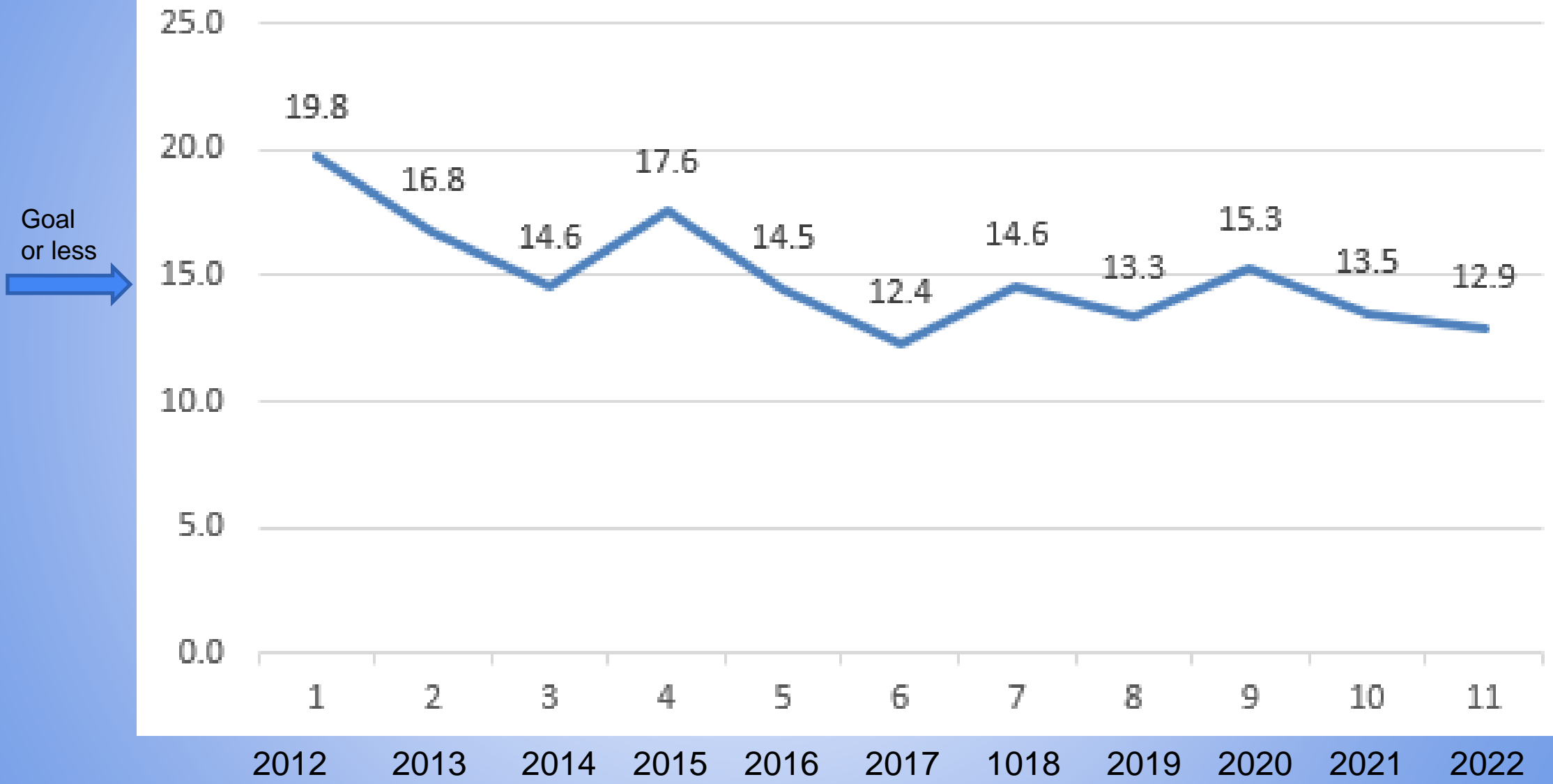
(Used Historically)



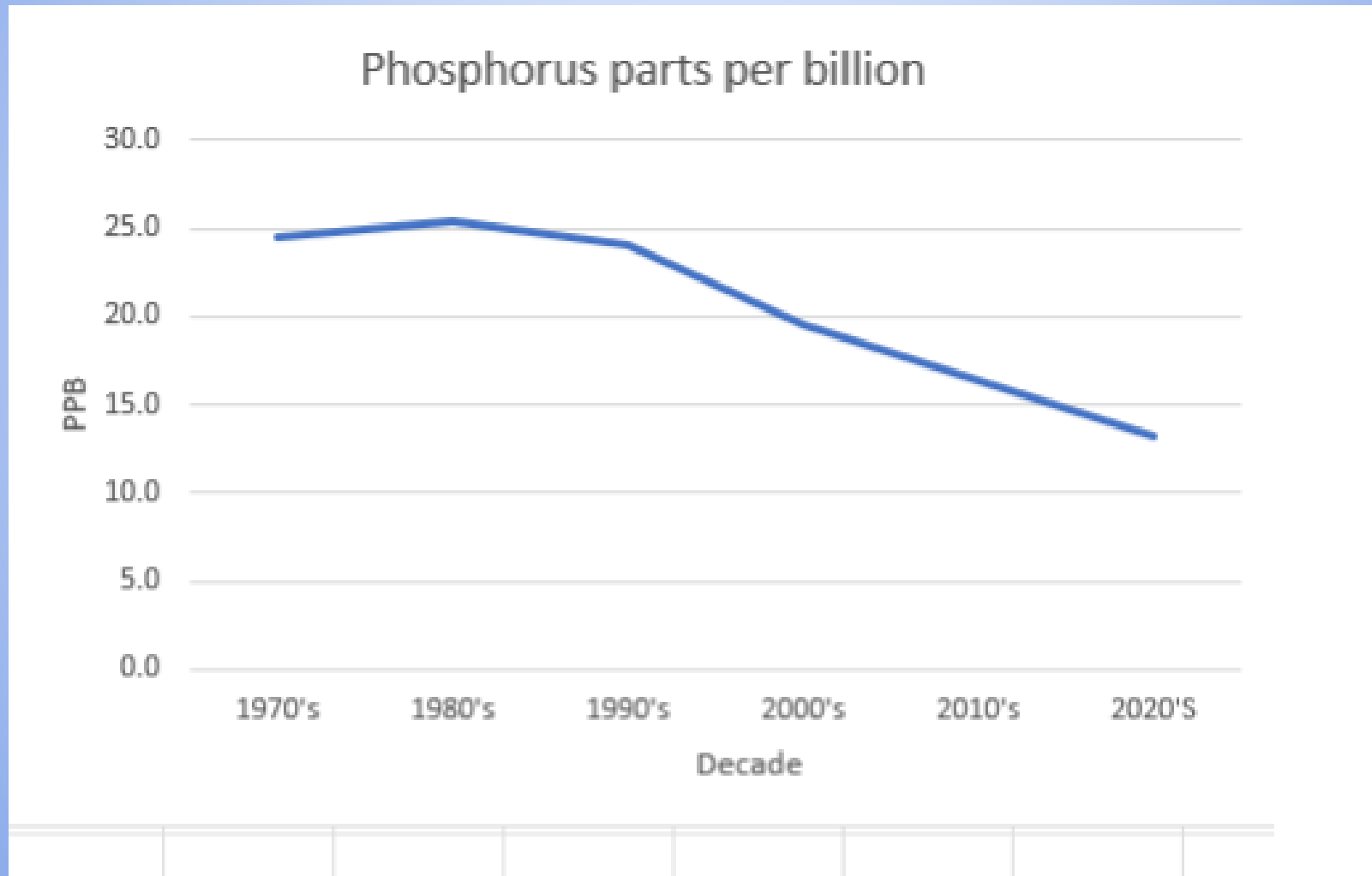
# Phosphorus Goal 15 PPB or less

<u>Site</u>	<u>6/7</u>	<u>7/11</u>	<u>8/9</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	13.0	9.9	13.1		12.0
210 (Island)	9.5	12.7	16.7		13.0
205 (Fosters)	12.4	10.7	14.2		12.4
103 (Landing)	9.2	12.3	16.3		12.6
201 (Isthmus)	12.4	14.4	17.0		14.6
Average	11.3	12.0	15.5	0.0	12.9

# 11 Year Phosphorus Trend



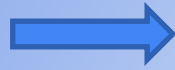
# Phosphorus Testing History - site 205



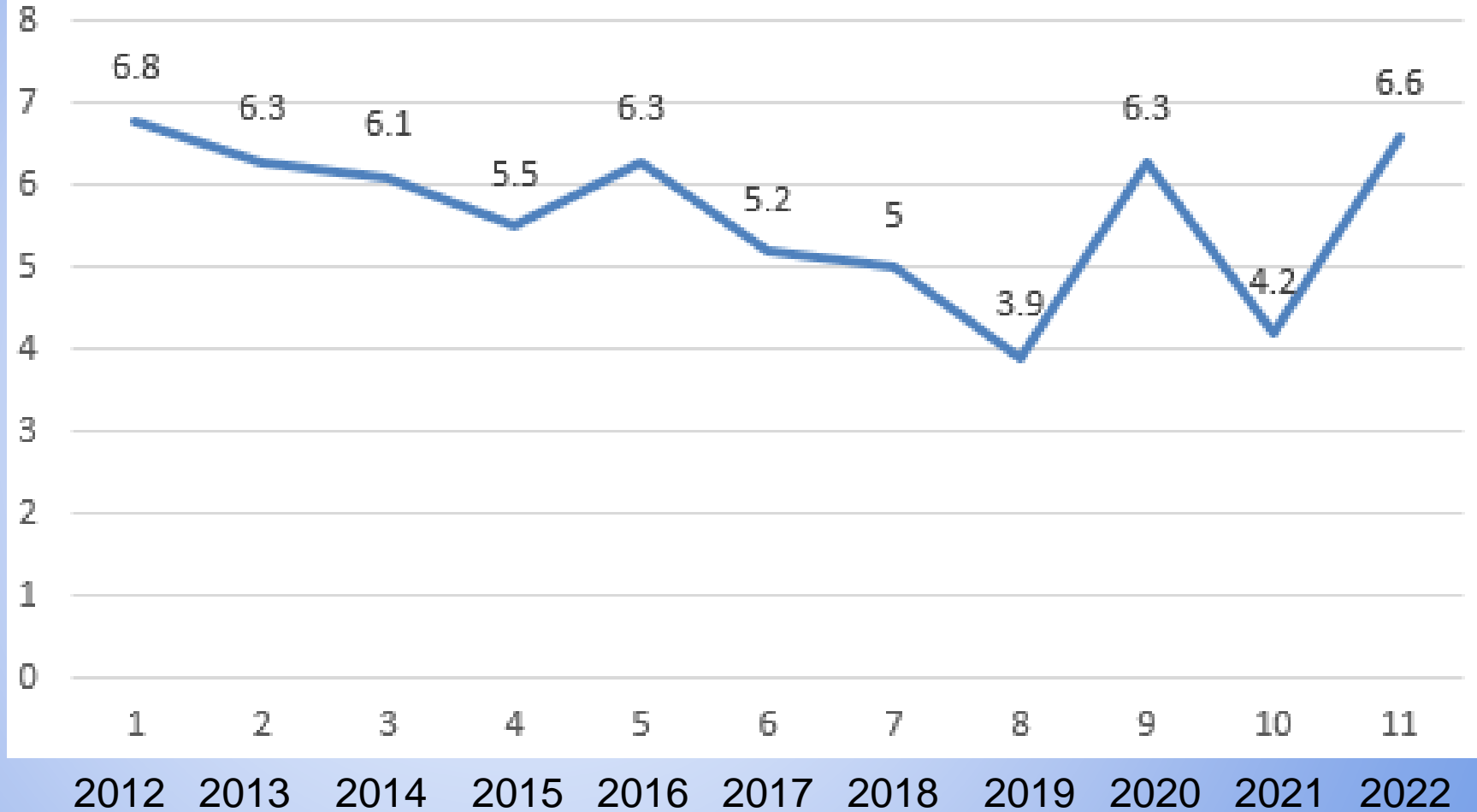
# Chlorophyll-a Goal 8 PPB or less

<u>Site</u>	<u>6/7</u>	<u>7/11</u>	<u>8/9</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	3.8	8.0	9.6		7.1
210 (Island)	3.4	8.4	9.2		7.0
205 (Fosters)	3.8	8.0	9.7		7.2
103 (Landing)	4.0	6.5	7.6		6.0
201 (Isthmus)	4.6	5.7	6.6		5.6
Average	3.9	7.3	8.5	0.0	6.6

# Chlorophyll-a 11 Year Trend



Goal  
or less

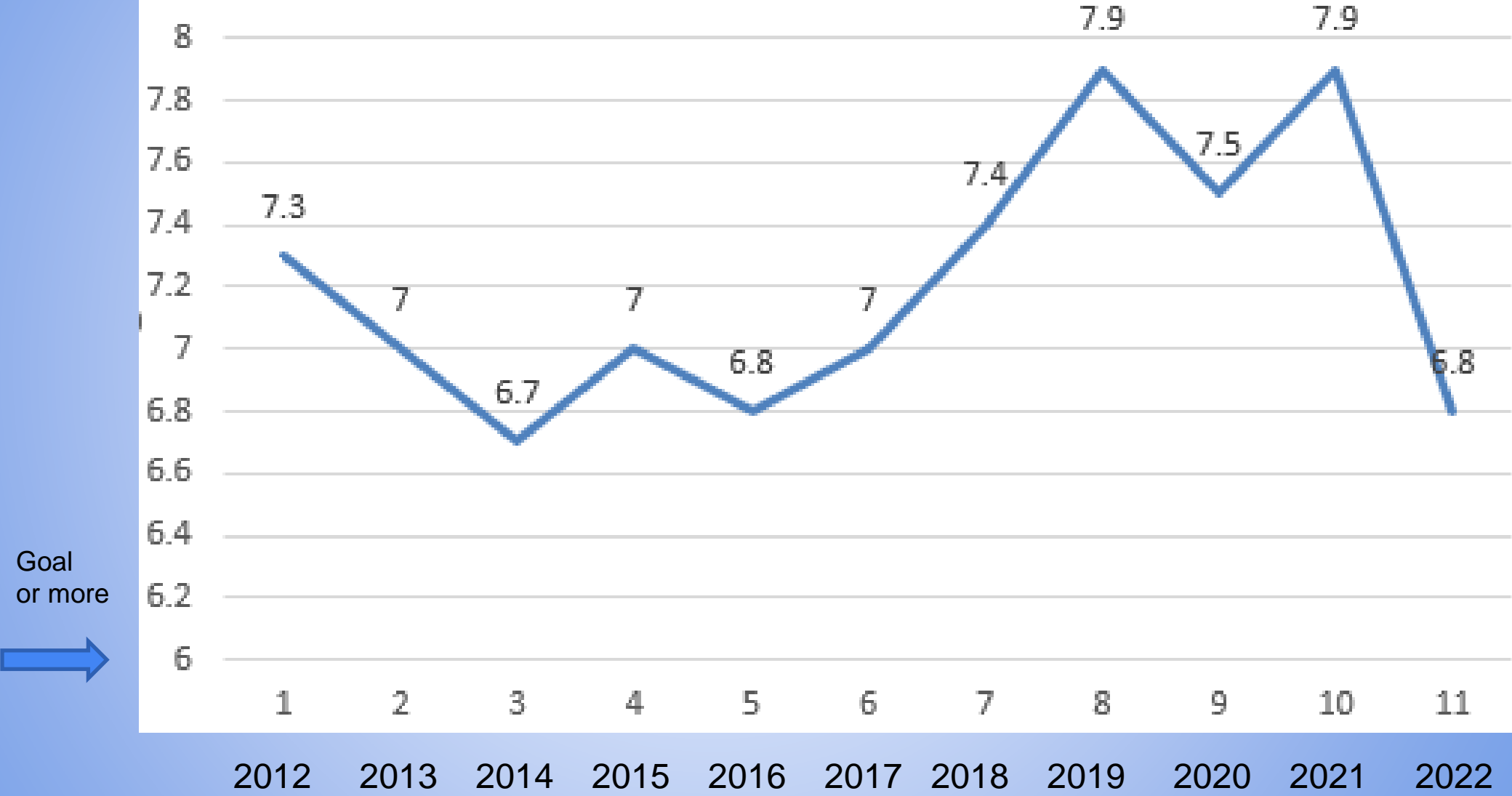




# Secchi Disk Goal 6 feet of more

<u>Site</u>	<u>6/7</u>	<u>7/11</u>	<u>8/9</u>	<u>Sept</u>	<u>Ave</u>
203 (Camp)	7.5	7.0	7.0		7.2
210(Island)	7.5	7.0	6.0		6.8
205 (Fosters)	7.0	7.0	6.0		6.7
103 (Landing)	7.0	7.0	6.5		6.8
201 (Isthmus)	7.0	6.5	6.0		6.5
Average	7.2	6.9	6.3	0.0	6.8

# Secchi Dish 11 Year Trend



## Rusty Crayfish – 3,942 harvested this summer

- 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
- Traps were out for 29 Days starting in June , not all consecutive days
- 1087 harvested last year (compared to 3,942 harvested this year)

# Varying Sizes and Approximate Percent of Total

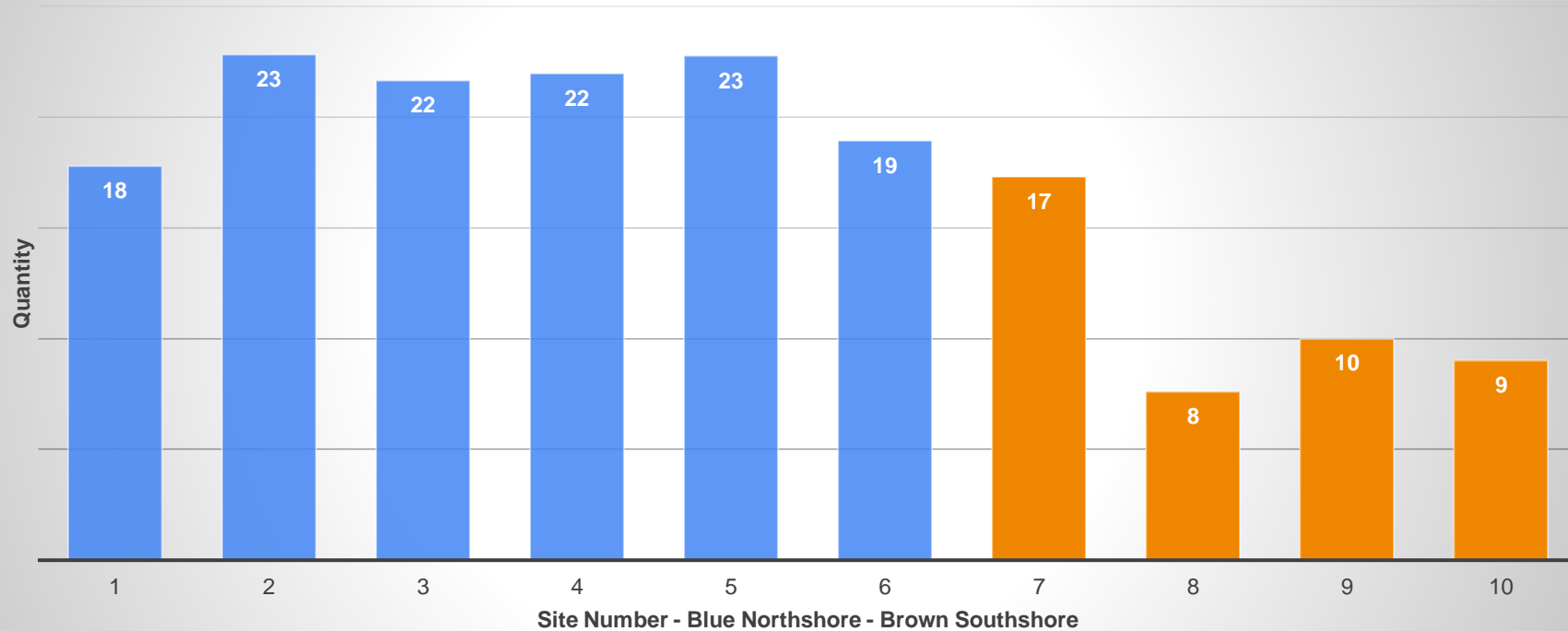


# Trap Locations



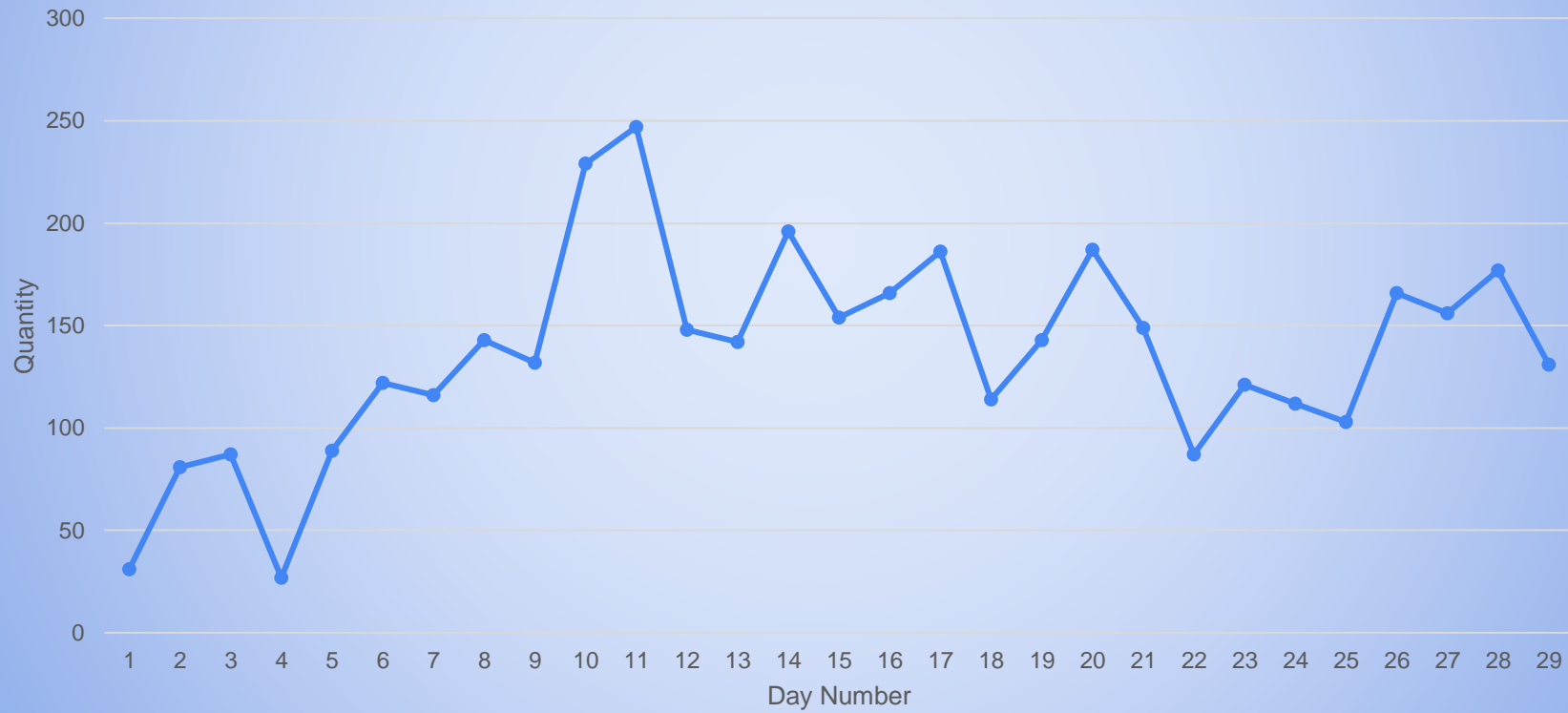
# Rusty Harvest

Average Per Day Quantity by Site



# Rusty Harvest

Day Total



# Yield of 5 Days of Trappings





# DNR Fish Survey

July 2022

# DNR Catch Summary

7/11/2022 (9 sets)

Species	<u>Gill Net</u>		<u>Mesh Net</u>	
	<u>Ave.</u> <u># per set</u>	<u>Mean</u> <u>Weight</u>	<u>Ave</u> <u># per set</u>	<u>Mean</u> <u>Weight</u>
Northern Pike	2.00	1.90	0.67	2.17
Smallmouth Bass	0.56	1.85	0.22	0.88
Walleye	7.33	0.69	0.11	0.75
White Sucker	4.56	2.15		
Yellow Perch	7.33	0.15		
Black Crappie			0.44	0.68
Bluegill			0.11	0.32

# Walleye (Gill Net)

Year	# per set	Weight
2022	7.33	0.69
2017	5.67	1.01
2014	6.67	0.77
2011	7.44	0.54
2008	8.5	0.84
2005	13.56	0.69
1995	7.11	0.75
1984	13	0.65
1971	30.67	0.99
1951	69.2	0.74

# Sugar Loaf Cove Nature Center

Speaker: Dominique Menard

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The physical characteristics and related fisheries and land cover factors for Caribou Lake are as follows:

MNDNR ID NO. 16-0360

Lake area: 728 acres

Mean depth: 12.6 ft.

Maximum depth: 32 ft.

Volume: 9,195 acre-ft.

Mean hydraulic residence time: 1.6 years

Littoral area 60%

Watershed area: 534 acres (excluding Pike Lake)

Ratio watershed area-to-lake surface area: 9.3:1

Fisheries-Ecological classification: Walleye

Management classification: Soft-water walleye

Public access: 1

Inlets: 2 Outlets: 1

Land cover: Forests—75%; water and marsh (including lake) – 23%; residential—2%  
pasture & open and cultivated—0% ; all within typical range of Northern Lakes and Forests Region

