

LAKE MANAGEMENT STATUS REPORT

Date of Report: 12/26/2024	Fisheries Manager: Brennan Caputo	District: 1
Lake Name: Baumann Lake	County: Winnebago	Water No: 4118
Ownership (STATE, PUBC, PUBO): Public Co-op Village of Cherry Valley		Acreage: 26.0

LM STATUS REPORTS WILL INCLUDE THE FOLLOWING SECTIONS:

1. List of the Sport Fish Regulations in Effect
2. Listing of Stocked Fish
3. Vegetation Treatments
4. Fish Surveys
5. Lake Management Plan Progress Table
6. Recommendations for Observed Problem Trends

1. SPORT FISH REGULATIONS IN EFFECT:

All Fish 2 Pole and Line Fishing Only
 Large or Smallmouth Bass 1 Fish Daily Creel Limit (14" Minimum Length Limit)
 Bluegill or Redear Sunfish No Fish Daily Creel Limit (No Minimum Length Limit)
 Channel Catfish 6 Fish Daily Creel Limit (No Minimum Length Limit)

2. FISH STOCKING:

2024:
 9/10/2024 Channel Catfish 516 4.1" Little Grassy Hatchery

 2022:
 09/01/22 Channel Catfish 522 8.0" Jake Wolf Hatchery

3. AQUATIC VEGETATION TREATMENTS:

No vegetation treatments were required at Baumann Lake

4. FISH SURVEYS:

05/08/2024: Spring Community Sample
 Annual electrofishing survey using one DC electrofishing boat for 2 runs, 30 minutes of total electrofishing time utilizing 1 dipper. Water temp was 68.7 F. A total of 140 fish were sampled from 4 species.

5. LAKE MANAGEMENT PROGRESS TABLES:

Largemouth Bass:

A total of 59 Largemouth Bass were collected ranging from 118 – 475 mm (4.6 – 18.7 in), with 43 \geq Stock size (200 mm [7.9 in]). Average length was 249 mm (9.8 in). This survey met the minimum required number of fish \geq Stock size (n = 30) to accurately quantify population demographics as set forth in the Lake Management Plan (LMP). Both the PSD and RSD-14 fell below their respective target ranges. A lower PSD and RSD-14 value indicate an under abundance of large-sized Largemouth Bass and a high number of small sized Largemouth. Body condition (as indexed by relative weight) exceeded the 90th percentile. A high body

condition indicates sufficient forage for fish growth. A lower PSD and RSD-14 value coupled with the good body condition indicate lower quality bass fishery. It's also possible that larger fish are present but were difficult to collect due to water clarity and water depth. Future evaluations will need to be made to determine if the conditions improve.

Lake Management Plan:	Goal	2020	2021	2022	2023	2024
# Stock (200mm)	>100	NS	28	10	50	43
PSD	40-60		57	90	80	23
RSD 14	20-40		29	80	68	16
Wr	90-110		88	98	94	90

Spring diurnal DC electrofishing CPUE (fish/hr.) of each length group of Largemouth bass collected.

Year	<7.9"	7.9-11.8"	11.8-15"	15-20.1"	> 20.1"	Total CPUE
2020	No Sample					
2021	52.0	24.0	30.0	2.0	0.0	108.0
2022	50.0	2.0	6.0	10.0	2.0	70.0
2023	40.0	20.0	30.0	50.0	0.0	140.0
2024	32.0	66.0	8.0	12.0	0.0	118.0

Bluegill:

A total of 71 Bluegills were collected ranging from 80 – 195 mm (3.1 – 7.7 in), with 71 \geq Stock size (80 mm [3.1 in]). Average length was 149 mm (5.9 in.). This survey met the minimum required number of fish \geq Stock size (n = 50) to quantify population demographics as set forth in the Lake Management Plan (LMP). The PSD fell well above and PSD-P value fell below their respective ranges. Body condition (as indexed by relative weight) was within its respective range. Despite Bluegill densities being high, very few smaller Bluegill were collected (as indicated by the low PSD-P value). This could be due to a poor spawning year for bluegill. It's also possible that smaller fish are present but were difficult to collect due to water clarity and water depth.

Lake Management Plan:	Goal	2020	2021	2022	2023	2024
#Stock(80mm)	>100	NS	43	30	110	71
PSD	20-40		34	20	4	51
PSD-P (8 in)	5-20		7	0	0	0
Wr	90-110		101	82	96	90

Spring diurnal DC electrofishing CPUE (fish/hr.) of each length group of Bluegill collected.

Year	<3.1"	3.1-5.9"	5.9-7.9"	7.9-9.8"	9.8-11.8"	Total CPUE
2020	No Sample					
2021	86.0	118.0	48.0	12.0	0.0	264.0
2022	60.0	98.0	24.0	0.0	0.0	182.0
2023	2.0	212.0	6.0	2.0	0.0	222.0
2024	0.0	70.0	72.0	0.0	0.0	142.0

6. RECOMMENDATIONS FOR OBSERVED PROBLEM TRENDS:

1. Continue requesting Non-vulnerable Channel Catfish (NVC) on an annual basis
2. Continue fish population surveys on a routine basis