

LAKE MANAGEMENT STATUS REPORT

Date of Report: 12/31/2024	Fisheries Manager: Brennan Caputo	District: 1
Lake Name: Olson Lake	County: Winnebago	Water No: 4106
Ownership (STATE, PUBC, PUBO): State		Acreage: 45

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)
 Muskellunge. 1 Fish Daily Creel Limit (36" Minimum Length Limit)
 White, Black, or Hybrid Crappie No Fish Daily Creel Limit (No Minimum Length Limit)

2. FISH STOCKING:

2024:

09/17/2024	Muskellunge	49	12.85"	Jake Wolf Hatchery
09/10/2024	Channel Catfish	760	4.1"	Little Grassy Hatchery

2023:

09/28/2023	Muskellunge	45	12.25"	Jake Wolf Hatchery
08/08/2023	Channel Catfish	760	7.5"	Little Grassy Hatchery

2022:

09/28/2022	Muskellunge	58	12.5"	Jake Wolf Hatchery
09/02/2022	Channel Catfish	761	8.0"	Jake Wolf Hatchery

3. AQUATIC VEGETATION TREATMENTS:

A vegetation treatment was completed on 06/05/2024, 06/10/24 and 06/27/24. A table below contains a list of chemicals that were applied.

06/05/24	Tribune	5 gal.	Curlyleaf Pondweed
06/05/24	Cleargate	10 gal.	Algae
06/10/24	AquaNear	4 gal.	Cattails
06/10/24	2-4D Amine	2.5 gal.	Cattails
06/27/24	AquaNeat	4 gal.	Cattails
06/27/24	2-4D Amine	2.5 gal.	Cattails

4. FISH SURVEYS:

A spring Muskie trap net survey took place on 04/15/24 – 04/17/24 on Olson Lake. The lake was sampled with 5 – 4x6 ft. 1.5in. mesh trap nets for Muskie on 4/15/2024. The nets were fished for two nights with water temperature around 62 F. A total of 2 Muskie were collected during this survey.

A community assessment survey took place on 05/08/24 and consisted of 1 daytime DC-electrofishing run for a total of 30 minutes of sampling effort. Overall, 7 species and 286 individual fish were collected.

5. LAKE MANAGEMENT PLAN PROGRESS TABLES:

Muskellunge:

A total of 2 Muskellunge were collected ranging from 705 – 706 mm (27.8 – 27.8 in), with 2 of those fish \geq Stock size (510 mm [20.1 in]). Average length was 705 mm (27.8 in). The 2 Muskellunge collected were quality sized fish. This is to be expected from a newly stocked lake. As the population ages, future analysis will be done to accurately quantify population demographics as set forth in the Lake Management Plan (LMP).

<u>Lake Management Plan:</u>	<u>Goal</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Net nights: (# nets)	2(3)	2(3)	NS	2(3)	2(3)
CPUE (fish/nn)	>1.0	1.7		.7	.3
PSD	>80	20		75	N/A
RSD 36	>25	0.0		0.0	N/A
Wr	90-110	46		96	97

Spring trap net CPUE (fish/nn) of each length group of Muskellunge collected.

<u>Year</u>	<u><20.1"</u>	<u>20.1-29.9"</u>	<u>29.9-38.2"</u>	<u>38.2-42.1"</u>	<u>42.1-50"</u>	<u>>50.0"</u>	<u>Total Fish</u>
2021	0	1.3	.3	0	0	0	10
2022	NS						
2023	0	.2	.5	0	0	0	4
2024	0	.3	0	0	0	0	2

Largemouth Bass:

A total of 82 Largemouth bass were collected ranging from 207 – 500 mm (8.1 – 19.7 in), with 82 of those fish \geq Stock size (200 mm [7.9 in]). Average length was 330 mm (13.0 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). The PSD exceeded its respective target ranges while the PSD-P fell just below its respective ranges. Body condition (as indexed by relative weight) exceeded the 90th percentile. A high body condition indicates sufficient forage for fish growth. Despite Largemouth densities being high, and good Largemouth body condition, very few preferred sized Largemouth were collected (as indicated by low the RSD-14 value). It's possible that larger fish are present but were difficult to collect due to the large amount of vegetation in the water during the survey.

<u>Lake Management Plan:</u>	<u>Goal</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
# Stock (200mm)	>100	NS	53	NS	72	82
PSD	40-60		68		74	79
RSD 14	20-40		59		43	18
Wr	90-110		99		96	97

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
2020	No Sample					
2021	60	34	34	38	0	166
2022	No Sample					
2023	8	38	56	50	0	152
2024	0	34	108	22	0	164

Bluegill:

A total of 151 Bluegills were collected ranging from 30 – 200 mm (1.2 – 7.9 in), with 116 \geq Stock size (80 mm [3.1 in]). Average length was 123 mm (4.8 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 exceeded its respective target ranges while the PSD-P fell below its respective ranges. Body condition (as indexed by relative weight) exceeded the 90th percentile. A high body condition indicates sufficient forage for fish growth. Despite Bluegill densities being high, and good Bluegill body condition, very few preferred sized Bluegill were collected (as indicated by low the PSD-P value). It's possible that larger fish are present but were difficult to collect due to the large amount of vegetation in the water during the survey.

<u>Lake Management Plan:</u>	<u>Goal</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
#Stock(80mm)	>100	NS	95	NS	97	116
PSD	20-40		24		67	51
PSD-P	05-20		0		0	1
Wr	90-110		105		109	106

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"	Total
2020	No Sample				
2021	46	144	46	0	236
2022	No Sample				
2023	0	64	130	0	194
2024	70	114	116	2	302

6. RECOMMENDATIONS FOR OBSERVED PROBLEM TRENDS:

1. A possible March or early April herbicide treatment for Curlyleaf pondweed
2. Continue winter drawdowns to aid in Largemouth bass condition
3. Spring herbicide treatment to control Water Lilies and Cattails