

Lake Name: Spectacle
DOW Number: 30-0135-00

Survey Type: Targeted Survey
Survey ID Date: 08/15/2022

TARGETED SURVEY
Electrofishing targeting Largemouth Bass All Ages
Gill Netting
Trap Netting
Water Quality Measurement

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 32

DNR Sounding Map Number: C2833
Alternate Lake Class ID: 29

Lake Location

Primary County: Isanti

Nearest Town: Cambridge

Legal Descriptions

Lake Center: Township - 36N Range - 25W Section - 25
PLS Section Lake Center: 3602525

All Legal Descriptions:

Isanti County: Township - 36N Range - 25W Sections - 25, 26, 35, 36

Area Office

Area Name: Hinckley
Region Name: Central

ORG Code: F311
Region Number: 3

Lake Access

(Information based on Re-Survey dated 08/26/1996)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	State owned access off of Co. Rd. 37 on the south side of the lake; via the point road. Parking for about 10 vehicles w/ trailers.

(Data excludes records where public use is not designated or is designated "No Public Use")

Lake Characteristics

Lake Area (planimetered acres): 239.60	GIS Shoreline Length (miles): 3.74
GIS Lake Area (acres): 246.19	Maximum Fetch (miles): 0.81
DOW Lake Area (acres): 280.00	Fetch Orientation (degrees): 292
Littoral Area (acres): 157.10	USGS Quad Map Number: P16c
Area in MN (acres): 246.19	USGS Quad 24K GIS Index: 3131
Maximum Depth (feet): 51.5	
Mean Depth (feet): 8.6	

Watershed Characteristics

Major Watershed

Name: Rum River
 Watershed Number: 21
 Watershed size (acres): 1,013,790

Minor Watershed

Name: Green L Bk
 Watershed Number: 76
 Watershed size (acres): 7,376

Surveys and Investigations

Re-Survey: 08/28/2006, 08/26/1996, 08/25/1986.
Population Assessment: 08/19/2013, 08/27/2001, 08/21/1991, 08/16/1982, 09/10/1975.
Special Assessment: 07/15/2014, 07/10/2013, 06/12/2012, 06/24/2011, 06/23/2010, 06/22/2009, 07/09/2008.
External Management Survey: 06/18/2007.
Targeted Survey: 08/25/2022, 08/15/2022, 09/17/2020, 08/19/2020.

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
GA - 1	08/19/2013	Normal	1.81	Direct Gauge Reading
	08/28/2006	Low	1.30	Direct Gauge Reading

Water Level History - Station Summary

Station ID	Minimum Level		Maximum Level		Range (feet)	Average Level (feet)	Reading Type (and number of readings)
	Feet	Date	Feet	Date			
GA - 1	1.30	08/28/2006	1.81	08/19/2013	0.51	1.56	Direct Gauge Reading (2)

Dissolved Oxygen and Temperature Profile of Lake Water

Station ID	Sampling Date	Bottom Depth (Feet)	Sample Depth (Feet)	Water Temperature (°F)	Dissolved Oxygen (ppm)
WQ - 1	08/15/2022	45.0	Surface	73.8	8.0
			2.0	74.1	8.1
			4.0	74.1	8.1
			6.0	74.1	8.2
			8.0	74.1	8.2
			10.0	74.1	8.2
			12.0	74.1	8.2
			14.0	74.1	8.1
			16.0	74.1	8.1
			18.0	73.9	8.1
			20.0	73.8	7.8
			21.0	73.0	7.2
			22.0	72.7	6.7
			23.0	71.8	5.9
			24.0	70.0	2.5
			25.0	68.2	0.9
			26.0	66.2	0.6
27.0	64.8	0.5			
30.0	63.0	0.5			
35.0	54.7	0.4			
40.0	51.1	0.4			
45.0	50.2	0.3			

Field Measurements of Water Quality

Station ID	Sampling Date	Sample Depth (Feet)	Secchi Depth (Feet)	Field pH	Alkalinity (ppm)	Water Color	Color Cause
WQ - 1	08/15/2022	45.0	13.0	N/A	N/A	Clear	N/A

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 6
 First Set Date: 08/15/2022
 Last Lift Date: 08/18/2022
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 32 ¹		
				25%	50%	75%
BLC	Black Crappie	11	1.83	1.00	2.11	3.90
BLG	Bluegill	25	4.17	N/A	N/A	N/A
HSF	Hybrid Sunfish	1	0.17	N/A	N/A	N/A
LMB	Largemouth Bass	22	3.67	0.40	0.80	1.62
NOP	Northern Pike	27	4.50	3.50	6.21	8.85
PMK	Pumpkinseed	3	0.50	N/A	N/A	N/A
WAE	Walleye	11	1.83	0.50	1.25	2.33
WTS	White Sucker	1	0.17	0.33	0.75	1.67
YEB	Yellow Bullhead	180	30.00	2.10	6.00	15.83
YEP	Yellow Perch	4	0.67	1.00	3.00	10.28
Total Fish/Set:			47.50	¹ Quartiles for Number Per Set		

Net Catch Summary by Weight for GN

Standard gill net sets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight ²	Quartiles for Lake Class 32 ¹		
					25%	50%	75%
BLC	Black Crappie	2.84	0.47	0.27	0.20	0.28	0.37
BLG	Bluegill	9.01	1.50	0.36	N/A	N/A	N/A
HSF	Hybrid Sunfish	0.31	0.05	0.31	N/A	N/A	N/A
LMB	Largemouth Bass	18.02	3.00	0.83	0.50	0.81	1.30
NOP	Northern Pike	38.52	6.42	1.43	1.60	2.13	2.98
PMK	Pumpkinseed	0.61	0.10	0.20	N/A	N/A	N/A
WAE	Walleye	28.46	4.74	2.59	1.72	2.60	3.60
WTS	White Sucker	1.82	0.30	1.82	1.74	2.15	2.70
YEB	Yellow Bullhead	129.03	21.51	0.72	0.27	0.42	0.53
YEP	Yellow Perch	1.60	0.27	0.53	0.10	0.12	0.17
Total Pounds Fish/Set:			38.37	¹ Quartiles for Mean Weight			

² Mean Weights are based on measured fish counts only.

Net Catch Summary by Numbers for TN

Standard 3/4-in mesh, double frame trap net sets

Number of Sets: 18
 First Set Date: 05/19/2022
 Last Lift Date: 08/18/2022
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 32 ¹		
				25%	50%	75%
BLB	Black Bullhead	49	2.72	0.25	0.78	1.62
BLC	Black Crappie	19	1.06	0.82	2.00	3.97
BLG	Bluegill	200	11.11	9.50	23.00	57.33
GSF	Green Sunfish	7	0.39	0.50	0.70	0.92
HSF	Hybrid Sunfish	15	0.83	N/A	N/A	N/A
LMB	Largemouth Bass	7	0.39	0.28	0.74	1.38
NOP	Northern Pike	19	1.06	N/A	N/A	N/A
PMK	Pumpkinseed	28	1.56	1.50	2.81	6.75
WAE	Walleye	3	0.17	0.25	0.33	0.50
WTS	White Sucker	1	0.06	0.25	0.40	0.94
YEB	Yellow Bullhead	53	2.94	2.68	5.67	13.50
YEP	Yellow Perch	2	0.11	0.33	0.70	1.25
Total Fish/Set:			22.39	¹ Quartiles for Number Per Set		

Net Catch Summary by Weight for TN

Standard 3/4-in mesh, double frame trap net sets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight ²	Quartiles for Lake Class 32 ¹		
					25%	50%	75%
BLB	Black Bullhead	0.00	0.00	N/A	0.25	0.48	0.60
BLC	Black Crappie	7.87	0.44	0.41	0.20	0.30	0.48
BLG	Bluegill	72.92	4.05	0.36	0.11	0.14	0.19
GSF	Green Sunfish	1.44	0.08	0.21	0.13	0.20	0.36
HSF	Hybrid Sunfish	5.57	0.31	0.37	N/A	N/A	N/A
LMB	Largemouth Bass	4.54	0.25	0.65	0.24	0.40	0.75
NOP	Northern Pike	14.94	0.83	0.80	N/A	N/A	N/A
PMK	Pumpkinseed	7.60	0.42	0.27	0.13	0.18	0.25
WAE	Walleye	7.42	0.41	2.47	1.07	2.20	4.00
WTS	White Sucker	1.26	0.07	1.26	2.00	2.88	3.88
YEB	Yellow Bullhead	28.72	1.60	0.74	0.37	0.51	0.59
YEP	Yellow Perch	1.14	0.06	0.57	0.10	0.13	0.20
Total Pounds Fish/Set:			8.52	¹ Quartiles for Mean Weight			

² Mean Weights are based on measured fish counts only.

Electrofishing Catch Summary for EF

Standard electrofishing

Number of Stations: 3
Total run-time for all stations: 00:36:00
Total on-time for all stations: 00:35:35
First Sampling Date: 05/31/2022
Last Sampling Date: 05/31/2022
Daylight Sampling: No
Target Species: All ages largemouth bass

Abbr	Species	Summary By Numbers			Summary By Weight (pounds)			
		Total Number	Number per Hour		Total Weight	Lbs per Hour		Mean Weight
			Run-Time	On-Time		Run-Time	On-Time	
LMB	Largemouth Bass	29	48.33	48.90	28.89	48.15	48.71	1.00

Length Frequency Distribution for GN (for fish < 36.00 inches)

Standard gill net sets

(Field work conducted between 08/15/2022 and 08/18/2022)

	<u>BLC</u>	<u>BLG</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	1	-	-	-	-
5.50 - 5.99	1	-	-	-	-	-	-	-	-	-
6.00 - 6.49	2	1	-	-	-	1	-	-	-	-
6.50 - 6.99	2	1	-	-	-	1	-	-	-	-
7.00 - 7.49	3	13	1	-	-	-	-	-	3	-
7.50 - 7.99	-	2	-	-	-	-	-	-	5	-
8.00 - 8.49	-	2	-	1	-	-	-	-	4	-
8.50 - 8.99	1	6	-	-	-	-	-	-	13	-
9.00 - 9.49	1	-	-	3	-	-	-	-	21	1
9.50 - 9.99	-	-	-	-	-	-	-	-	11	-
10.00 - 10.49	-	-	-	1	-	-	-	-	23	-
10.50 - 10.99	-	-	-	4	-	-	-	-	30	2
11.00 - 11.49	1	-	-	2	-	-	-	-	13	-
11.50 - 11.99	-	-	-	1	-	-	-	-	20	-
12.00 - 12.99	-	-	-	8	1	-	-	-	17	-
13.00 - 13.99	-	-	-	1	3	-	-	-	15	-
14.00 - 14.99	-	-	-	1	7	-	-	-	4	-
15.00 - 15.99	-	-	-	-	9	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	1	-	-
17.00 - 17.99	-	-	-	-	1	-	-	-	-	-
18.00 - 18.99	-	-	-	-	3	-	1	-	-	-
19.00 - 19.99	-	-	-	-	-	-	8	-	-	-
20.00 - 20.99	-	-	-	-	-	-	2	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	1	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	1	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	1	-	-	-	-	-
Total	11	25	1	22	27	3	11	1	179	3
Min. Length	5.98	6.30	7.09	8.19	12.32	5.43	18.74	16.34	7.32	9.41
Max. Length	11.02	8.66	7.09	14.37	37.60	6.73	20.83	16.34	14.96	10.87
Mean Length	7.61	7.64	7.09	11.43	17.07	6.15	19.64	16.34	10.71	10.33
# Measured	9	22	1	21	27	3	11	1	178	3
No Lengths for	2	3	0	1	0	0	0	0	2	1

Note: Unless all fish were measured in the catch, totals shown for some length-frequency distributions may differ from the total number of fish in the catch, due to rounding of fractions used in the estimation of length frequency from a subsample of measured fish.

Length Frequency Distribution for GN (for fish \geq 36.00 inches)

Standard gill net sets

(Field work conducted between 08/15/2022 and 08/18/2022)

	<u>BLC</u>	<u>BLG</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 36.00	11	25	1	22	26	3	11	1	180	3
36.00 - 36.99	-	-	-	-	-	-	-	-	-	-
37.00 - 37.99	-	-	-	-	1	-	-	-	-	-
38.00 - 38.99	-	-	-	-	-	-	-	-	-	-
39.00 - 39.99	-	-	-	-	-	-	-	-	-	-
40.00 - 40.99	-	-	-	-	-	-	-	-	-	-
41.00 - 41.99	-	-	-	-	-	-	-	-	-	-
42.00 - 42.99	-	-	-	-	-	-	-	-	-	-
43.00 - 43.99	-	-	-	-	-	-	-	-	-	-
44.00 - 44.99	-	-	-	-	-	-	-	-	-	-
45.00 - 45.99	-	-	-	-	-	-	-	-	-	-
46.00 - 46.99	-	-	-	-	-	-	-	-	-	-
47.00 - 47.99	-	-	-	-	-	-	-	-	-	-
48.00 - 48.99	-	-	-	-	-	-	-	-	-	-
49.00 - 49.99	-	-	-	-	-	-	-	-	-	-
50.00 - 50.99	-	-	-	-	-	-	-	-	-	-
51.00 - 51.99	-	-	-	-	-	-	-	-	-	-
52.00 - 52.99	-	-	-	-	-	-	-	-	-	-
53.00 - 53.99	-	-	-	-	-	-	-	-	-	-
54.00 - 54.99	-	-	-	-	-	-	-	-	-	-
55.00 - 55.99	-	-	-	-	-	-	-	-	-	-
56.00 - 56.99	-	-	-	-	-	-	-	-	-	-
57.00 - 57.99	-	-	-	-	-	-	-	-	-	-
58.00 - 58.99	-	-	-	-	-	-	-	-	-	-
59.00 - 59.99	-	-	-	-	-	-	-	-	-	-
60.00 - 60.99	-	-	-	-	-	-	-	-	-	-
61.00 - 61.99	-	-	-	-	-	-	-	-	-	-
62.00 - 62.99	-	-	-	-	-	-	-	-	-	-
63.00 - 63.99	-	-	-	-	-	-	-	-	-	-
64.00 - 64.99	-	-	-	-	-	-	-	-	-	-
65.00 - 65.99	-	-	-	-	-	-	-	-	-	-
66.00 - 66.99	-	-	-	-	-	-	-	-	-	-
67.00 - 67.99	-	-	-	-	-	-	-	-	-	-
68.00 - 68.99	-	-	-	-	-	-	-	-	-	-
69.00 - 69.99	-	-	-	-	-	-	-	-	-	-
70.00 - 70.99	-	-	-	-	-	-	-	-	-	-
71.00 - 71.99	-	-	-	-	-	-	-	-	-	-
72.00 - 72.99	-	-	-	-	-	-	-	-	-	-
73.00 - 73.99	-	-	-	-	-	-	-	-	-	-
74.00 - 74.99	-	-	-	-	-	-	-	-	-	-
75.00 - 75.99	-	-	-	-	-	-	-	-	-	-
76.00 - 76.99	-	-	-	-	-	-	-	-	-	-
77.00 - 77.99	-	-	-	-	-	-	-	-	-	-
= > 78.00	-	-	-	-	-	-	-	-	-	-
Total	11	25	1	22	27	3	11	1	180	3
Min. Length	5.98	6.30	7.09	8.19	12.32	5.43	18.74	16.34	7.32	9.41
Max. Length	11.02	8.66	7.09	14.37	37.60	6.73	20.83	16.34	14.96	10.87
Mean Length	7.61	7.64	7.09	11.43	17.07	6.15	19.64	16.34	10.71	10.33
# Measured	9	22	1	21	27	3	11	1	178	3
No Lengths for	2	3	0	1	0	0	0	0	2	1

Note: Unless all fish were measured in the catch, totals shown for some length-frequency distributions may differ from the total number of fish in the catch, due to rounding of fractions used in the estimation of length frequency from a subsample of measured fish.

Length Frequency Distribution for TN

Standard 3/4-in mesh, double frame trap net sets

(Field work conducted between 05/19/2022 and 08/18/2022)

	<u>BLC</u>	<u>BLG</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	1	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	8	-	1	-	-	-	-	-	-	-
4.00 - 4.49	-	4	-	1	-	-	4	-	-	-	-
4.50 - 4.99	-	4	2	3	-	-	-	-	-	-	-
5.00 - 5.49	-	5	-	-	1	-	-	-	-	-	-
5.50 - 5.99	-	4	2	-	-	-	3	-	-	-	-
6.00 - 6.49	-	8	-	1	-	-	4	-	-	-	-
6.50 - 6.99	-	10	-	-	-	-	2	-	-	-	-
7.00 - 7.49	-	18	1	-	-	-	9	-	-	-	-
7.50 - 7.99	4	45	2	2	2	-	5	-	-	9	-
8.00 - 8.49	3	67	-	2	-	-	1	-	-	7	-
8.50 - 8.99	3	22	-	4	1	1	-	-	-	7	1
9.00 - 9.49	3	3	-	1	-	-	-	-	-	3	-
9.50 - 9.99	4	-	-	-	-	-	-	-	-	8	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	8	-
10.50 - 10.99	3	-	-	-	-	-	-	-	-	1	-
11.00 - 11.49	-	-	-	-	-	1	-	-	-	1	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-	1	1
12.00 - 12.99	-	-	-	-	1	-	-	-	-	5	-
13.00 - 13.99	-	-	-	-	2	4	-	-	-	3	-
14.00 - 14.99	-	-	-	-	-	5	-	-	1	-	-
15.00 - 15.99	-	-	-	-	-	-	-	1	-	-	-
16.00 - 16.99	-	-	-	-	-	4	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	1	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-	1	-	1	-	-	-
19.00 - 19.99	-	-	-	-	-	1	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	1	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	1	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-

	<u>BLC</u>	<u>BLG</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	20	199	7	15	7	19	28	3	1	53	2
Min. Length	7.56	3.35	4.57	3.74	5.16	8.74	4.02	15.47	14.49	7.80	8.74
Max. Length	10.75	9.45	7.68	9.37	13.90	20.04	8.31	22.68	14.49	13.90	11.93
Mean Length	8.98	7.49	6.24	6.97	9.84	15.30	6.57	18.90	14.49	10.69	10.33
# Measured	18	199	7	15	7	18	28	3	1	22	2
No Lengths for	1	1	0	0	0	1	0	0	0	31	0

Note: Unless all fish were measured in the catch, totals shown for some length-frequency distributions may differ from the total number of fish in the catch, due to rounding of fractions used in the estimation of length frequency from a subsample of measured fish.

Length Frequency Distribution for EF

Standard electrofishing

(Field work conducted between 05/31/2022 and 05/31/2022)

	<u>LMB</u>
< 3.00	-
3.00 - 3.49	-
3.50 - 3.99	-
4.00 - 4.49	-
4.50 - 4.99	-
5.00 - 5.49	-
5.50 - 5.99	-
6.00 - 6.49	-
6.50 - 6.99	-
7.00 - 7.49	-
7.50 - 7.99	-
8.00 - 8.49	-
8.50 - 8.99	-
9.00 - 9.49	2
9.50 - 9.99	4
10.00 - 10.49	-
10.50 - 10.99	-
11.00 - 11.49	1
11.50 - 11.99	3
12.00 - 12.99	11
13.00 - 13.99	6
14.00 - 14.99	1
15.00 - 15.99	-
16.00 - 16.99	1
17.00 - 17.99	-
18.00 - 18.99	-
19.00 - 19.99	-
20.00 - 20.99	-
21.00 - 21.99	-
22.00 - 22.99	-
23.00 - 23.99	-
24.00 - 24.99	-
25.00 - 25.99	-
26.00 - 26.99	-
27.00 - 27.99	-
28.00 - 28.99	-
29.00 - 29.99	-
30.00 - 30.99	-
31.00 - 31.99	-
32.00 - 32.99	-
33.00 - 33.99	-
34.00 - 34.99	-
35.00 - 35.99	-
= > 36.00	-

	<u>LMB</u>
Total	29
Min. Length	9.13
Max. Length	16.34
Mean Length	12.13
# Measured	29
No Lengths for	0

Note: Unless all fish were measured in the catch, totals shown for some length-frequency distributions may differ from the total number of fish in the catch, due to rounding of fractions used in the estimation of length frequency from a subsample of measured fish.

Age Class Frequency Distribution

Species & SS Type (1)	Number of Fish (2)			Number of Fish in Year Class ('yy) and Age Class															
	Aged	Keyed	Unaged	'22 0	'21 1	'20 2	'19 3	'18 4	'17 5	'16 6	'15 7	'14 8	'13 9	'12 10	'11 11	'10 12	'09 13	'08 14	<'08 15+
Northern Pike																			
GN	24	2	1	0	1	13	10	1	0	0	0	0	0	1	0	0	0	0	0
Walleye																			
GN	11	0	0	0	0	0	0	0	0	0	7	2	0	2	0	0	0	0	0

(1) Key to Sampling Station (SS) Type abbreviations:

GN = Standard gill net sets

(2) Notes:

Number of Fish Aged: Fish that were aged from bony parts.

Number of Fish Keyed: Fish assigned an age with an age-length key or by expansion of mesh or station age distributions.

Number of Fish Unaged: Fish that were not aged and were not assigned an age.

Approval Dates And Notices

Date Approved By Hinckley Area Fisheries Supervisor: _____

Date Approved By Central Region Fisheries Manager: _____

This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 03/27/2023), and is therefore subject to change at any time.



Minnesota Department of Natural Resources



By accepting the data in this report, the user agrees the data will be used for personal benefit and not for profit. Any other uses or publication of the data needs the consent of the Department. The Minnesota Department of Natural Resources assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on the data.

Lake Survey Report revision: 20230207-RJE. Data Date: 03/27/2023 at 11:33 am .

REPORT OVERVIEW - FOR OFFICE USE ONLY

(This page is not part of the Lake Survey Report and should be discarded)

Lake Name: Spectacle

Survey Type: Targeted Survey

DOW Number: 30-0135-00

Survey ID Date: 08/15/2022

Electrofishing targeting Largemouth Bass All Ages, Gill Netting, Trap Netting, Water Quality Measurement

Survey Status: Field Work Complete

The following 23 (of 34) report components are not included in this Lake Survey Report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History¹
4. Lake Inlets
5. Additional Inlet Information
6. Lake Outlets
7. Additional Outlet Information
8. Water Control Structure (Dam)
9. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations²
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Water Quality (Winter Observations) (added to revision 01/21/2010)
16. Laboratory Analysis Of Water Chemistry
17. Zooplankton Sampling (added to revision 20221130)
18. Catch Summary (Pre-1993 Format) (added to revision 20201001)
19. Length At Capture With Last Incremental Length*
20. Back-Calculated Lengths
21. Other Species (added to revision 03/24/2009)
22. Status Of Fishery And Field Notes
23. Survey Attachments (added to revision 20150622)

¹ Water Level History report: This data has not yet been migrated into the Fisheries LSM database. On 01/08/2009, two additional Water Level History report components (Readings and Station Summary) were added.

² Effective 03/25/2014, the Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations report component was modified to be included in the Lake Survey report if it did not include any Watershed and Shoreline characteristics and only consisted of Riparian Landscape Observations.

* Length At Capture With Last Incremental Length report: The following criteria must be met for a report to be generated:

1. The fish species must have an assigned body scale constant.
2. Fish must have an "official" age assigned.
3. Fish must have a digitized measurement marked for back calculation use.

Note: The data source for Length and Age Class Frequency Distribution tables is updated twice daily - once at noon and once overnight. Any changes to the data made before noon on 03/27/2023 may not be reflected in the Distribution tables until after 12:30 pm on 03/27/2023.

FOR OFFICE USE ONLY: As of revision 20150622, this page is automatically suppressed on signed versions of this report (area supervisor, region manager, research biologist, research supervisor, program staff, or program manager signed).