

Lake Name: Grace

Survey Type: Standard Survey

DOW Number: 29-0071-00

Survey ID Date: 07/28/2025

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 27

DNR Sounding Map Number: C2142
Alternate Lake Class ID: N/A

Lake Location

Primary County: Hubbard

Nearest Town: Bemidji

All Counties: Beltrami, Hubbard.

Legal Descriptions

Lake Center: Township - 145N Range - 32W Section - 4
PLS Section Lake Center: 14503204

All Legal Descriptions:

Beltrami County: Township - 146N Range - 32W Sections - 32, 33, 34
Hubbard County: Township - 145N Range - 32W Sections - 3, 4, 5

Area Office

Area Name: Bemidji
Region Name: Northwest

ORG Code: F112
Region Number: 1

Lake Access

(Information based on Population Assessment dated 08/15/2000)

<u>Station ID</u>	<u>Ownership</u>	<u>Public Use</u>	<u>Type</u>	<u>Location / Comments</u>
AC - 1	DNR	Open to Public use	Concrete	Approximately 15 unit parking.

Lake Characteristics

Lake Area (planimetered acres): 887.00	GIS Shoreline Length (miles): 4.31
GIS Lake Area (acres): 859.82	Maximum Fetch (miles): 1.41
DOW Lake Area (acres): 844.00	Fetch Orientation (degrees): 247
Littoral Area (acres): 340.00	USGS Quad Map Number: I11b
Area in MN (acres): 859.82	USGS Quad 24K GIS Index: 1621
Maximum Depth (feet): 42.0	
Mean Depth (feet): 17.0	

Watershed Characteristics

Major Watershed

Name: Miss R-Headwaters
Watershed Number: 7
Watershed size (acres): 1,228,884

Minor Watershed

Name: Grace L
Watershed Number: 86
Watershed size (acres): 5,822

LAKE SURVEY REPORT
STANDARD SURVEY DATED 07/28/2025 FOR DOW NUMBER 29-0071-00

Surveys and Investigations

Population Assessment: 06/29/2010 EF, GN, S58, WQ, TN, EFB, 08/15/2005 TN, GN, 08/15/2000 AC, GN, TN, 07/31/1995 GN, SSE, TN, 08/30/1984 SSE.
Special Assessment: 08/24/1988 SSE, 08/24/1983 SSE.
Standard Survey: 07/28/2025 WQ, GN, TN, 08/03/2020 GN, TN, WQ, 08/03/2015 SEF, WQ, GN, TN.
Targeted Survey: 07/11/2022 S58, TN, S18, EFB, 08/17/2020 S58, EFB, 07/07/2015 EFB, S58.

Dissolved Oxygen and Temperature Profile of Lake Water

<u>Station ID</u>	<u>Sampling Date</u>	<u>Bottom Depth (Feet)</u>	<u>Sample Depth (Feet)</u>	<u>Water Temperature (°F)</u>	<u>Dissolved Oxygen (ppm)</u>
WQ - 1	07/28/2025	38.0	Surface	75.9	10.8
			3.0	76.3	10.8
			6.0	76.1	10.8
			9.0	75.7	10.9
			12.0	74.7	10.8
			13.0	74.1	10.5
			14.0	73.2	10.1
			15.0	72.9	9.5
			16.0	72.5	9.2
			17.0	72.5	9.1
			18.0	72.3	8.9
			19.0	71.8	8.3
			20.0	71.6	7.9
			21.0	71.4	7.5
			22.0	71.1	6.5
			23.0	70.9	5.9
			24.0	70.7	5.1
			25.0	70.5	4.2
			26.0	70.2	3.1
			27.0	70.0	2.6
			28.0	69.6	2.0
			29.0	69.4	1.5
			30.0	69.1	0.8
			33.0	67.8	0.3
			36.0	66.4	0.3

Field Measurements of Water Quality

<u>Station ID</u>	<u>Sampling Date</u>	<u>Sample Depth (Feet)</u>	<u>Secchi Depth (Feet)</u>	<u>Field pH</u>	<u>Alkalinity (ppm)</u>	<u>Water Color</u>	<u>Color Cause</u>
WQ - 1	07/28/2025	Surface	11.0	N/A	N/A	Green	Algae

LAKE SURVEY REPORT
STANDARD SURVEY DATED 07/28/2025 FOR DOW NUMBER 29-0071-00

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 12
First Set Date: 07/28/2025
Last Lift Date: 07/31/2025
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 27 ¹		
				25%	50%	75%
BLC	Black Crappie	49	4.08	0.39	1.00	2.69
BLG	Bluegill	701	58.42	N/A	N/A	N/A
BRB	Brown Bullhead	8	0.67	0.32	0.75	1.84
HSF	Hybrid Sunfish	43	3.58	N/A	N/A	N/A
LMB	Largemouth Bass	78	6.50	0.25	0.67	1.40
NOP	Northern Pike	190	15.83	2.76	5.06	9.00
PMK	Pumpkinseed	210	17.50	N/A	N/A	N/A
RKB	Rock Bass	52	4.33	0.60	1.33	3.86
WAE	Walleye	64	5.33	3.25	5.50	8.81
WTS	White Sucker	10	0.83	0.88	2.00	4.00
YEB	Yellow Bullhead	17	1.42	1.17	3.49	10.92
YEP	Yellow Perch	105	8.75	7.00	18.17	46.33
Total Fish/Set:			127.25	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 27 ¹		
					25%	50%	75%
BLC	Black Crappie	25.72	2.14	0.52	0.25	0.38	0.60
BLG	Bluegill	190.63	15.89	0.27	N/A	N/A	N/A
BRB	Brown Bullhead	10.13	0.84	1.27	0.73	0.93	1.20
HSF	Hybrid Sunfish	14.79	1.23	0.34	N/A	N/A	N/A
LMB	Largemouth Bass	62.59	5.22	0.80	0.52	0.77	1.17
NOP	Northern Pike	374.00	31.17	1.98	1.57	2.04	2.75
PMK	Pumpkinseed	54.47	4.54	0.26	N/A	N/A	N/A
RKB	Rock Bass	10.66	0.89	0.21	0.30	0.40	0.51
WAE	Walleye	144.21	12.02	2.25	1.16	1.56	2.05
WTS	White Sucker	24.72	2.06	2.47	1.60	2.05	2.39
YEB	Yellow Bullhead	15.88	1.32	0.93	0.60	0.72	0.88
YEP	Yellow Perch	21.05	1.75	0.20	0.11	0.14	0.20
Total Pounds Fish/Set:			79.07	¹ Quartiles for Mean Weight			

² Mean Weights are based on measured fish counts only.

LAKE SURVEY REPORT
STANDARD SURVEY DATED 07/28/2025 FOR DOW NUMBER 29-0071-00

Net Catch Summary by Numbers for TN

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

Number of Sets: 11
 First Set Date: 07/28/2025
 Last Lift Date: 07/31/2025
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 27 ¹		
				25%	50%	75%
BLC	Black Crappie	2	0.18	0.36	0.90	2.32
BLG	Bluegill	161	14.64	4.39	16.21	48.97
BRB	Brown Bullhead	2	0.18	0.25	0.75	1.57
HSF	Hybrid Sunfish	26	2.36	N/A	N/A	N/A
LMB	Largemouth Bass	28	2.55	0.33	0.67	1.25
NOP	Northern Pike	17	1.55	N/A	N/A	N/A
PMK	Pumpkinseed	57	5.18	1.76	3.67	7.78
RKB	Rock Bass	13	1.18	0.55	1.08	2.50
WAE	Walleye	12	1.09	0.20	0.43	0.75
WTS	White Sucker	3	0.27	0.17	0.38	1.08
YEB	Yellow Bullhead	2	0.18	1.17	2.40	5.18
YEP	Yellow Perch	7	0.64	0.62	1.30	3.46
Total Fish/Set:			30.00	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 27 ¹		
					25%	50%	75%
BLC	Black Crappie	0.99	0.09	0.50	0.29	0.44	0.63
BLG	Bluegill	33.49	3.04	0.21	0.11	0.16	0.25
BRB	Brown Bullhead	2.33	0.21	1.17	0.68	0.91	1.11
HSF	Hybrid Sunfish	7.21	0.66	0.28	N/A	N/A	N/A
LMB	Largemouth Bass	35.43	3.22	1.27	0.21	0.40	0.76
NOP	Northern Pike	18.76	1.71	1.10	N/A	N/A	N/A
PMK	Pumpkinseed	9.85	0.90	0.17	0.13	0.18	0.26
RKB	Rock Bass	2.22	0.20	0.17	0.26	0.36	0.53
WAE	Walleye	18.87	1.72	1.57	0.95	1.58	2.73
WTS	White Sucker	8.50	0.77	2.83	1.75	2.30	3.00
YEB	Yellow Bullhead	1.74	0.16	0.87	0.62	0.78	0.94
YEP	Yellow Perch	1.12	0.10	0.16	0.11	0.15	0.21
Total Pounds Fish/Set:			12.77	¹ Quartiles for Mean Weight			

² Mean Weights are based on measured fish counts only.

LAKE SURVEY REPORT
STANDARD SURVEY DATED 07/28/2025 FOR DOW NUMBER 29-0071-00

Length Frequency Distribution for GN

Standard gill net sets

(Field work conducted between 07/28/2025 and 07/31/2025)

	<u>BLC</u>	<u>BLG</u>	<u>BRB</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	1	-	-	-	-	-
3.50 - 3.99	-	2	-	-	-	-	10	-	-	-	-	-
4.00 - 4.49	-	-	-	2	-	-	5	2	-	-	-	-
4.50 - 4.99	-	11	-	1	-	-	3	1	-	-	-	-
5.00 - 5.49	1	33	-	1	-	-	1	2	-	-	-	-
5.50 - 5.99	-	53	-	1	-	-	11	3	-	-	-	6
6.00 - 6.49	3	57	-	3	2	-	18	13	-	-	-	5
6.50 - 6.99	1	207	-	8	1	-	76	13	-	-	-	8
7.00 - 7.49	-	172	-	10	1	-	75	15	-	-	-	9
7.50 - 7.99	-	101	-	10	2	-	8	3	-	-	-	22
8.00 - 8.49	1	41	-	5	-	-	2	-	-	-	-	33
8.50 - 8.99	-	21	-	2	2	-	-	-	-	-	1	20
9.00 - 9.49	1	2	-	-	7	-	-	-	-	-	1	3
9.50 - 9.99	16	-	-	-	9	-	-	-	-	-	1	-
10.00 - 10.49	14	-	-	-	7	-	-	-	3	-	1	1
10.50 - 10.99	5	-	1	-	9	-	-	-	1	-	1	-
11.00 - 11.49	6	-	1	-	13	-	-	-	2	-	-	-
11.50 - 11.99	-	-	-	-	8	-	-	-	3	-	1	-
12.00 - 12.99	1	-	2	-	1	-	-	-	9	-	6	-
13.00 - 13.99	-	-	3	-	2	-	-	-	5	-	5	-
14.00 - 14.99	-	-	1	-	7	9	-	-	4	-	-	-
15.00 - 15.99	-	-	-	-	6	19	-	-	3	-	-	-
16.00 - 16.99	-	-	-	-	-	18	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	1	24	-	-	1	3	-	-
18.00 - 18.99	-	-	-	-	-	25	-	-	3	5	-	-
19.00 - 19.99	-	-	-	-	-	19	-	-	5	1	-	-
20.00 - 20.99	-	-	-	-	-	15	-	-	2	1	-	-
21.00 - 21.99	-	-	-	-	-	10	-	-	1	-	-	-
22.00 - 22.99	-	-	-	-	-	10	-	-	4	-	-	-
23.00 - 23.99	-	-	-	-	-	5	-	-	4	-	-	-
24.00 - 24.99	-	-	-	-	-	5	-	-	5	-	-	-
25.00 - 25.99	-	-	-	-	-	1	-	-	7	-	-	-
26.00 - 26.99	-	-	-	-	-	3	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	7	-	-	1	-	-	-
28.00 - 28.99	-	-	-	-	-	3	-	-	1	-	-	-
29.00 - 29.99	-	-	-	-	-	3	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	6	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	3	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	1	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	1	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	1	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-	-

	<u>BLC</u>	<u>BLG</u>	<u>BRB</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	49	700	8	43	78	188	210	52	64	10	17	107
Min. Length	5.31	3.66	10.63	4.02	6.18	14.21	3.19	4.09	10.35	17.17	8.74	5.51
Max. Length	12.13	9.09	14.57	8.98	17.05	34.41	8.27	7.76	28.54	20.16	13.66	10.28
Mean Length	9.80	6.95	12.78	7.14	11.15	20.31	6.62	6.54	18.05	18.33	11.86	7.90
# Measured	49	690	8	43	78	187	210	52	64	10	17	100
No Lengths for	0	11	0	0	0	3	0	0	0	0	0	5

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.

LAKE SURVEY REPORT
STANDARD SURVEY DATED 07/28/2025 FOR DOW NUMBER 29-0071-00

Length Frequency Distribution for TN

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

(Field work conducted between 07/28/2025 and 07/31/2025)

	<u>BLC</u>	<u>BLG</u>	<u>BRB</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	5	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	1	-	-	2	-	-	-	-	-
4.00 - 4.49	-	5	-	1	-	-	8	-	-	-	-	-
4.50 - 4.99	-	12	-	-	-	-	7	1	-	-	-	1
5.00 - 5.49	-	16	-	1	-	-	6	1	-	-	-	-
5.50 - 5.99	-	19	-	3	4	-	6	4	-	-	-	1
6.00 - 6.49	-	11	-	1	4	-	11	1	-	-	-	-
6.50 - 6.99	-	33	-	4	-	-	6	4	-	-	-	-
7.00 - 7.49	-	35	-	11	-	-	8	2	-	-	-	1
7.50 - 7.99	-	20	-	2	-	-	2	-	-	-	-	2
8.00 - 8.49	-	4	-	2	-	-	-	-	-	-	-	2
8.50 - 8.99	-	-	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	-	-	-	-	1	-	-	-	-	-	-	-
9.50 - 9.99	1	-	-	-	2	-	-	-	1	-	1	-
10.00 - 10.49	1	-	-	-	1	-	-	-	-	-	-	-
10.50 - 10.99	-	-	-	-	1	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	1	-	-	-	-	-	-	-
12.00 - 12.99	-	-	1	-	1	-	-	-	3	-	-	-
13.00 - 13.99	-	-	1	-	1	-	-	-	2	-	1	-
14.00 - 14.99	-	-	-	-	3	1	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	3	4	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	1	2	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	4	2	-	-	2	1	-	-
18.00 - 18.99	-	-	-	-	-	4	-	-	1	1	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	1	1	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	1	-	-	-	1	-	-
22.00 - 22.99	-	-	-	-	-	1	-	-	2	-	-	-
23.00 - 23.99	-	-	-	-	-	1	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-
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>BRB</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	2	160	2	26	28	17	56	13	12	3	2	7
Min. Length	9.69	3.11	12.60	3.90	5.63	14.61	3.58	4.57	9.65	17.87	9.84	4.96
Max. Length	10.04	8.35	13.90	8.35	20.16	23.43	7.80	7.24	24.06	21.02	13.27	8.46
Mean Length	9.86	6.36	13.25	6.75	11.86	18.01	5.74	6.14	16.40	19.09	11.56	7.17
# Measured	2	160	2	26	28	17	55	13	12	3	2	7
No Lengths for	0	1	0	0	0	0	2	0	0	0	0	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.

LAKE SURVEY REPORT
STANDARD SURVEY DATED 07/28/2025 FOR DOW NUMBER 29-0071-00

Length At Capture with Last Incremental Length

(Body-Scale constant, all lengths, and all length increments in inches)

Species: Black Crappie
Body-Scale Constant: 0.79
Total Sample Size: 50

Length at Capture in 2025 for Each Age Class, with Incremental Lengths for 2025

Year Class	Age	Sample Size	Length At Capture			Standard Error	Length Increments	
			Average Length	Maximum Length	Minimum Length		Increment	Standard Error
2023	2	4	6.24	6.69	6.02	0.155	1.81	0.104
2022	3	1	8.27	8.27	8.27	N/A	1.27	N/A
2021	4	32	9.94	10.47	9.17	0.054	0.60	0.032
2020	5	9	10.80	11.26	9.72	0.153	0.36	0.063
2019	6	4	10.96	11.18	10.47	0.168	0.21	0.010

Species: Bluegill
Body-Scale Constant: 0.79
Total Sample Size: 125

Length at Capture in 2025 for Each Age Class, with Incremental Lengths for 2025

Year Class	Age	Sample Size	Length At Capture			Standard Error	Length Increments	
			Average Length	Maximum Length	Minimum Length		Increment	Standard Error
2023	2	6	3.33	3.90	3.11	0.121	0.69	0.063
2022	3	1	4.17	4.17	4.17	N/A	0.82	N/A
2021	4	43	5.29	6.54	4.17	0.083	0.76	0.023
2020	5	59	6.93	8.27	5.20	0.092	0.68	0.029
2019	6	16	7.94	8.46	7.32	0.089	0.31	0.024

Species: Largemouth Bass
Body-Scale Constant: 0.79
Total Sample Size: 78

Length at Capture in 2025 for Each Age Class, with Incremental Lengths for 2025

Year Class	Age	Sample Size	Length At Capture			Standard Error	Length Increments	
			Average Length	Maximum Length	Minimum Length		Increment	Standard Error
2023	2	12	6.16	7.17	5.63	0.122	1.20	0.057
2022	3	7	8.91	10.04	7.68	0.310	0.84	0.145
2021	4	35	10.14	11.54	8.62	0.118	0.72	0.047
2020	5	14	11.37	12.87	10.55	0.155	0.45	0.041
2019	6	10	12.73	14.17	11.10	0.407	0.31	0.031

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Length At Capture with Last Incremental Length (*Continued*)

Species: Walleye
Body-Scale Constant: 1.10
Total Sample Size: 40

Length at Capture in 2025 for Each Age Class, with Incremental Lengths for 2025

Year Class	Age	Sample Size	Length At Capture			Standard Error	Length Increments	
			Average Length	Maximum Length	Minimum Length		Increment	Standard Error
2024	1	1	9.65	9.65	9.65	N/A	2.46	N/A
2023	2	12	12.07	13.78	10.35	0.297	1.76	0.223
2022	3	10	12.23	13.54	10.39	0.316	1.09	0.178
2021	4	0	-	-	-	-	-	-
2020	5	3	13.37	13.98	12.56	0.422	0.86	0.278
2019	6	14	15.69	19.17	12.83	0.513	0.71	0.090

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Back-Calculated Lengths for Each Age Class and Average Annual Increments of Back-Calculated Lengths

Species: Black Crappie

Gear Type: Combined Gear Types (GN and TN)

Class	Age	N	1	2	3	4	5	6
2023	2	4	1.79	4.43	-	-	-	-
			1.79	2.64	-	-	-	-
2022	3	1	1.81	3.59	7.00	-	-	-
			1.81	1.78	3.41	-	-	-
2021	4	32	2.24	4.80	7.26	9.34	-	-
			2.24	2.57	2.46	2.08	-	-
2020	5	9	2.22	5.42	8.23	9.68	10.44	-
			2.22	3.20	2.81	1.45	0.76	-
2019	6	4	2.27	4.71	7.65	9.35	10.12	10.76
			2.27	2.45	2.94	1.69	0.78	0.64
Mean Length			2.19	4.85	7.48	9.41	10.34	10.76
Mean Increment			2.19	2.66	2.59	1.92	0.76	0.64
Total N			50	50	46	45	13	4

Species: Bluegill

Gear Type: Combined Gear Types (GN and TN)

Class	Age	N	1	2	3	4	5	6
2023	2	6	1.56	2.65	-	-	-	-
			1.56	1.09	-	-	-	-
2022	3	1	1.58	2.31	3.36	-	-	-
			1.58	0.73	1.05	-	-	-
2021	4	43	1.66	2.50	3.24	4.53	-	-
			1.66	0.84	0.74	1.29	-	-
2020	5	59	1.63	2.68	3.76	4.68	6.25	-
			1.63	1.05	1.08	0.92	1.57	-
2019	6	16	1.73	2.93	4.55	6.00	6.86	7.63
			1.73	1.20	1.62	1.45	0.86	0.78
Mean Length			1.65	2.65	3.68	4.80	6.38	7.63
Mean Increment			1.65	1.00	1.03	1.13	1.42	0.78
Total N			125	125	119	118	75	16

Species: Largemouth Bass

Gear Type: Combined Gear Types (GN and TN)

Class	Age	N	1	2	3	4	5	6
2023	2	12	2.68	4.97	-	-	-	-
			2.68	2.28	-	-	-	-
2022	3	7	2.95	5.32	8.07	-	-	-
			2.95	2.37	2.75	-	-	-
2021	4	35	3.17	6.09	7.95	9.42	-	-
			3.17	2.92	1.86	1.47	-	-
2020	5	14	2.51	6.40	9.11	10.21	10.92	-
			2.51	3.88	2.72	1.10	0.71	-
2019	6	10	2.54	5.79	9.03	10.95	11.87	12.42
			2.54	3.25	3.24	1.91	0.92	0.55
Mean Length			2.88	5.87	8.37	9.86	11.31	12.42
Mean Increment			2.88	2.99	2.34	1.46	0.80	0.55
Total N			78	78	66	59	24	10

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Back-Calculated Lengths for Each Age Class and Average Annual Increments of Back-Calculated Lengths (Continued)

Species: Walleye

Gear Type: Combined Gear Types (GN and TN)

Class	Age	N	1	2	3	4	5	6
2024	1	1	7.19	-	-	-	-	-
			7.19	-	-	-	-	-
2023	2	12	5.86	10.32	-	-	-	-
			5.86	4.46	-	-	-	-
2022	3	10	5.24	8.83	11.14	-	-	-
			5.24	3.59	2.31	-	-	-
2020	5	3	3.92	7.19	10.46	11.66	12.51	-
			3.92	3.27	3.27	1.20	0.85	-
2019	6	14	4.26	7.98	10.68	12.62	13.86	14.98
			4.26	3.72	2.70	1.93	1.24	1.12
Mean Length			5.03	8.86	10.83	12.45	13.62	14.98
Mean Increment			5.03	3.88	2.62	1.80	1.17	1.12
Total N			40	39	27	17	17	14

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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	'25 0	'24 1	'23 2	'22 3	'21 4	'20 5	'19 6	'18 7	'17 8	'16 9	'15 10	'14 11	'13 12	'12 13	'11 14	<'11 15+
Black Crappie																			
GN	49	0	0	0	0	5	1	29	9	4	1	0	0	0	0	0	0	0	0
TN	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Totals:	51	0	0	0	0	5	1	31	9	4	1	0	0	0	0	0	0	0	0
Bluegill																			
GN	69	633	0	0	0	2	0	119	431	123	19	4	4	0	0	0	0	0	0
TN	73	89	0	0	0	5	1	51	96	9	0	0	0	0	0	0	0	0	0
Totals:	142	722	0	0	0	7	1	170	527	132	19	4	4	0	0	0	0	0	0
Largemouth Bass																			
GN	78	0	0	0	0	4	7	31	14	10	9	0	3	0	0	0	0	0	0
TN	15	0	13	0	0	8	0	4	2	1	0	0	0	0	0	0	0	0	0
Totals:	93	0	13	0	0	12	7	35	16	11	9	0	3	0	0	0	0	0	0
Walleye																			
GN	63	1	0	0	0	11	7	0	3	12	6	7	5	7	1	3	0	0	2
TN	8	0	4	0	1	1	4	0	0	2	0	0	0	0	0	0	0	0	0
Totals:	71	1	4	0	1	12	11	0	3	14	6	7	5	7	1	3	0	0	2

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

GN = Standard gill net sets
 TN = Standard 3/4-in mesh, double frame trap 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.

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Survey Crew Notes

Several fragments of curly-leafed pondweed were found in gill net 7. This was the first discovery of this species in Grace Lake.

Area Signed by user 'anthomps' on 04/15/2026

Region Signed by user 'tesledge' on 04/27/2026

Discussion

Grace Lake is a 860-acre, class 27 lake located in southern Beltrami County. Grace is within the Mississippi River (Headwaters) Watershed and within the northern lakes and forest ecoregion. Grace Lake has a maximum depth of 42.0 feet, maximum fetch of 1.4 miles, and is 39.5% littoral habitat. Grace has 4.3 miles of heavily developed shoreline, with one DNR-owned public access located on the western shore. A 4.05-acre Aquatic Management Area (AMA) is located in the southwestern corner of the lake.

A standard survey was completed on Grace Lake from 07/28/2025 to 07/30/2025 to assess the fish community. The standard survey was completed using nine experimental gill nets and twelve standard trap nets. During the survey, water clarity was 11.0 feet and sufficient dissolved oxygen (> 4.0 ppm) was present down to 25.0 feet of water in the main basin. The primary and secondary species outlined in the Lake Management Plan (LMP) include Walleye, Northern Pike, and Yellow Perch. There are no special regulations on Grace Lake.

Walleye gill net catch rate (5.3 per net) decreased from 2020 (12.1 per net) and was below the LMP goal (> 9.0 per net). Walleye total lengths ranged from 10.4 to 28.5 inches, with a mean of 18.1 inches. Walleye growth rates were slightly below normal and fish averaged 12.5 inches at age-4. Walleye proportional stock density (PSD; 58) was above and relative stock density (RSD-20; 39) was below the historical means (70 and 33, respectively). Grace Lake is stocked annually with Walleye fingerlings and/or yearlings and adults depending on availability. Thirteen-year classes were identified in 2025. It is difficult to identify which stocking events were more successful in recent years, since a mixture of fingerling, yearling, and adults were stocked.

Northern Pike gill net catch rate (15.8 per net) increased from the 2015 survey (6.1 per net), was above the historical mean (7.1 per net), and LMP goal (< 8.0 per net). Northern Pike total lengths ranged from 14.2 to 34.4 inches, with a mean of 20.3 inches. PSD (32) decreased and RSD-28 (10) increased from the 2020 survey (89 and 7, respectively) and was below and above the historical means (49 and 7, respectively). Northern Pike size structure shifted back to higher density and smaller sized fish in 2025. The percentage of Northern Pike greater than 22.0 inches (26.2%) and between 22.0 to 26.0 inches (11.2%) decreased from the last survey (72.6 and 60.2%, respectively). No aging structures from Northern Pike were collected for this survey.

Yellow Perch gill net catch rate (8.8 per net) decreased from 2020 (18.6 per net), was below the historical mean (170.9 per net), and LMP goal (50.0 per net). Yellow Perch had a mean length of 7.9 inches and ranged from 5.5 to 10.3 inches. Yellow Perch size structure appears to be poor with very few fish over 9.0 inches.

The Bluegill population was considered a low-density population until the early 2000s when catch rates in both trap and gill nets increased. Bluegill trap net catch rate (14.6 per net) was above the historical mean (10.5 per net). Bluegill total lengths ranged from 3.1 to 8.4 inches and averaged 4.8 inches at age-4. PSD (64) was above and RSD-8 (2) was below the historical means (32 and 15, respectively). The gill net catch rate (58.4 per net) was above average and similar to the record high catch rate in 2020 (63.3 per net), suggesting the Bluegill population is expanding and a portion of the population has transitioned to deeper habitats often observed during the summer months. Targeted surveys during the spring months using trap nets while the majority of Bluegill are in shallow habitat is the preferred method to collect a representative sample of the population.

A total of 51 Black Crappie were captured in trap and gill nets; total lengths ranged from 5.3 to 12.1 inches, with a mean of 9.8 inches. The trap net catch rate (0.2 per net) was below and gill net catch rate was above the historical averages (0.3 and 0.9 per net, respectively). Black Crappie age data from both gear types ranged from two to seven years old.

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Discussion (Continued)

Largemouth Bass trap and gill net catch rates (2.5 and 6.5 per net, respectively) increased from 2020 (2.3 and 2.8 per net, respectively) and were above the historical means of 0.9 per net for both gear types. Total lengths ranged from 5.6 to 20.2 inches and averaged 9.9 inches at age-4. Seven-year classes were identified and ages ranged from 2 to 9 years old. Trap and gill net catch rates in August are a poor indicator of abundance. A targeted survey (nighttime electrofishing) is recommended to obtain a representative sample the population. Targeted surveys were completed in 2015 and 2010 and catch rates were 64.2 and 74.7 per hour, respectively, indicating an abundant population.

Other species sampled during this survey include Brown Bullhead, hybrid sunfish, Pumpkinseed, Rock Bass, White Sucker, and Yellow Bullhead. The next standard survey is scheduled during the summer of 2030.

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Status Of The Fishery

Grace Lake is a 860-acre, highly developed natural lake located in southern Beltrami County, approximately 8 miles southeast of Bemidji, MN. Grace has an average water clarity of 7 feet and a maximum depth of 42 feet. There is a DNR-owned public access northwest side of the lake, and a 4-acre Aquatic Management Area (AMA) on the southwestern shore of the lake. Grace Lake is primary managed for Walleye, Northern Pike, and Yellow Perch.

A standard survey was completed on Grace Lake in 2025 to assess the fish community. Gamefish species targeted by anglers in this lake include Walleye, Northern Pike, Black Crappie, Bluegill, Largemouth Bass, and Yellow Perch.

Walleye lengths ranged from 10 to 28 inches and averaged around 18 inches. Walleye abundance decreased from 2020, was below the lake's historical average, but still within the typical range for lakes with similar morphological characteristics. The Walleye population is sustained through annual fingerling stockings. Walleye yearlings and/or adults have also been stocked if fingerlings were unavailable. A total of 13 year classes were captured and ages ranged from 3 to 17 years old.

Northern Pike abundance increased from the 2020 survey, was above average for the lake, and above the typical range for similar lakes in Minnesota. Northern Pike lengths ranged from 14 to 34 inches and averaged 20 inches. Twenty-six percent of the Northern Pike captured in gill nets were larger than 22 inches and 11% were within the north-central zone regulation's protected slot of 22-26 inches.

Bluegill abundance decreased but was within the normal range for this lake type. High numbers of Bluegill were captured by gill nets, indicating fish were using deeper habitats during the survey. Bluegill lengths averaged 6 inches, with a few Bluegill over 9 inches captured. Bluegill growth was slow with fish averaging 5 inches at 4 years old. It is recommended that anglers keep smaller sunfish and release the larger fish to help improve and maintain the population's size structure.

Black Crappie abundance was similar to the historical average for the lake and the survey in 2020. Black Crappie lengths ranged from 5 to 12 inches and averaged 9 inches. Growth rates were average compared to similar lakes in the area, and ages ranged from 2 to 7 years old.

Largemouth Bass abundance has increased in the last couple surveys and was above average compared to the typical range for similar lakes in Minnesota. Largemouth Bass total length averaged 11 inches and ranged from 5 to 20 inches. Ages ranged from 2 to 9 years old.

Yellow Perch are considered important forage species for large predators like Walleye, Northern Pike, and Largemouth Bass. Yellow Perch abundance was below average and lengths ranged from 5 to 10 inches. Other species sampled during the survey included Brown Bullhead, hybrid sunfish, Pumpkinseed, Rock Bass, White Sucker, and Yellow Bullhead.

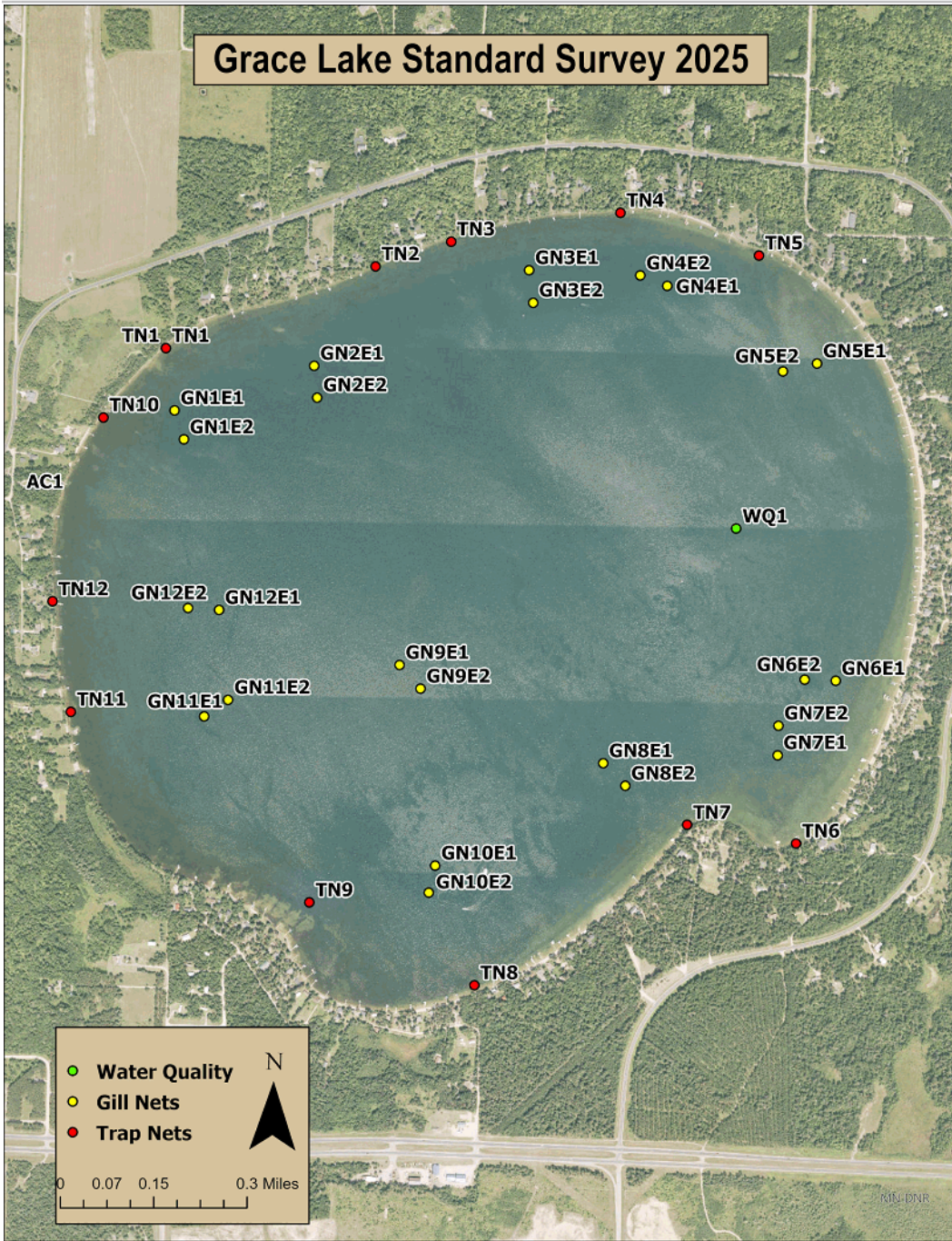
Grace Lake is infested with Curly-leaf Pondweed, an aquatic invasive species (AIS). AIS can be transferred by anglers and boats from infested to non-infested waterbodies. To avoid spreading AIS, lake users are required to remove all aquatic plants and animals from their watercraft and drain all water from their boat before leaving the access. Please follow the current AIS regulations to avoid spreading to other lakes.

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Survey Attachments

Attachment #1: Photo

Title: Grace Lake SD 2025 Map



File Name:

GraceLake_SD2025map.jpg

UTM Easting: -

UTM Northing: -

Date: 04/14/2026

Time: 11:40 am

Notes: -

Approval Dates And Notices

Date Approved By Bemidji Area Fisheries Supervisor: 04/15/2026
Date Approved By Northwest Region Fisheries Manager: 04/27/2026



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Lake Survey Report revision: 20230207-RJE. Data Date: 05/20/2026 at 12:34 pm .