



Minnesota Department of Natural Resources
 Fisheries Management
LAKE SURVEY REPORT



DRAFT VERSION - PRELIMINARY DATA (AS OF 06/27/2016)

Lake Name: Reitz
DOW Number: 10-0052-00

Survey Type: Standard Survey
Survey ID Date: 05/12/2016

Lake Identification

Alternate Lake Name: Kleins
 Primary Lake Class ID: 30
 DNR Sounding Map Number: C1072
 Alternate Lake Class ID: N/A

Lake Location

Primary County: Carver
 Nearest Town: Coney Island

Legal Descriptions

Lake Center: Township - 116N Range - 24W Section - 19
 PLS Section Lake Center: 11602419

All Legal Descriptions:

Carver County: Township - 116N Range - 24W Sections - 19, 20

Area Office

Area Name: Metro West
 Region Name: Central
 ORG Code: F314
 Region Number: 3

Lake Access

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	DNR Parks/Trails-owned access on northwest shore. Listed # of vehicle-trailer parking spaces: 3.

Lake Characteristics

Lake Area (planimetered acres): 79.30	GIS Shoreline Length (miles): 2.08
GIS Lake Area (acres): 92.42	Maximum Fetch (miles): 0.75
DOW Lake Area (acres): 101.00	Fetch Orientation (degrees): 90
Littoral Area (acres): 45.70	USGS Quad Map Number: S15C
Area in MN (acres): 92.42	USGS Quad 24K GIS Index: 3729
Maximum Depth (feet): 36.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

Name: Lower Minnesota River
 Watershed Number: 33
 Watershed size (acres): 1,174,348

Minor Watershed

Name: unknown DNR Minor Wshd
 Watershed Number: 108
 Watershed size (acres): 4,501

Surveys and Investigations

Initial Survey: 06/19/1961.

Re-Survey: 07/23/1993, 08/17/1983.

Population Assessment: 06/28/2010, 06/14/2004, 06/15/1998, 08/15/1988, 06/19/1978.

Special Assessment: 04/26/1989, 05/22/1979.

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	06/20/2016	35.0	Surface	77.9	10.5
			2.0	77.9	10.5
			4.0	77.7	10.4
			6.0	77.7	10.1
			8.0	77.2	9.0
			10.0	74.3	5.9
			12.0	69.8	1.8
			14.0	65.8	0.1

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	06/20/2016	Surface	6.0	N/A	N/A	Brown Grn	N/A

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 6
 First Set Date: 06/20/2016
 Last Lift Date: 06/23/2016
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 30*		
				25%	50%	75%
BLB	Black Bullhead	1	0.17	5.19	18.42	56.19
BLC	Black Crappie	185	30.83	1.88	6.25	18.00
BLG	Bluegill	11	1.83	N/A	N/A	N/A
FRD	Freshwater Drum	19	3.17	1.38	7.75	16.25
LMB	Largemouth Bass	3	0.50	0.33	0.50	1.06
NOP	Northern Pike	48	8.00	2.50	5.00	7.94
PMK	Pumpkinseed	1	0.17	N/A	N/A	N/A
WTS	White Sucker	1	0.17	0.50	1.00	2.00
YEB	Yellow Bullhead	2	0.33	1.00	2.50	6.88
YEP	Yellow Perch	17	2.83	1.50	4.00	12.75
Total Fish/Set:			48.00	* 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	Quartiles for Lake Class 30*		
					25%	50%	75%
BLB	Black Bullhead	1.24	0.21	1.24	0.17	0.31	0.49
BLC	Black Crappie	39.11	6.52	0.21	0.11	0.18	0.25
BLG	Bluegill	4.14	0.69	0.38	N/A	N/A	N/A
FRD	Freshwater Drum	20.37	3.39	1.07	0.25	0.55	1.25
LMB	Largemouth Bass	10.05	1.68	3.35	0.40	0.78	1.45
NOP	Northern Pike	146.43	24.40	3.05	1.76	2.47	3.30
PMK	Pumpkinseed	0.41	0.07	0.41	N/A	N/A	N/A
WTS	White Sucker	2.02	0.34	2.02	0.99	1.80	2.20
YEB	Yellow Bullhead	2.91	0.48	1.45	0.37	0.50	0.67
YEP	Yellow Perch	3.97	0.66	0.23	0.10	0.12	0.17
Total Pounds Fish/Set:			38.44	* Quartiles for Mean Weight			

Net Catch Summary by Numbers for TN

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

Number of Sets: 9
 First Set Date: 06/20/2016
 Last Lift Date: 06/23/2016
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 30*		
				25%	50%	75%
BLB	Black Bullhead	1	0.11	1.25	6.20	26.00
BLC	Black Crappie	126	14.00	1.75	5.00	18.08
BLG	Bluegill	40	4.44	6.54	24.60	59.60
CAP	Common Carp	8	0.89	0.33	0.80	2.55
FRD	Freshwater Drum	24	2.67	0.77	2.97	6.65
LMB	Largemouth Bass	3	0.33	0.25	0.40	0.75
NOP	Northern Pike	7	0.78	N/A	N/A	N/A
YEB	Yellow Bullhead	1	0.11	0.75	1.61	5.00
Total Fish/Set:			23.33	* 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	Quartiles for Lake Class 30*		
					25%	50%	75%
BLB	Black Bullhead	1.57	0.17	1.57	0.17	0.32	0.50
BLC	Black Crappie	25.69	2.85	0.20	0.15	0.21	0.30
BLG	Bluegill	9.96	1.11	0.25	0.11	0.15	0.23
CAP	Common Carp	27.54	3.06	3.44	2.00	3.20	4.50
FRD	Freshwater Drum	46.31	5.15	1.93	0.73	1.33	3.75
LMB	Largemouth Bass	6.16	0.68	2.05	0.15	0.36	1.13
NOP	Northern Pike	12.99	1.44	1.86	N/A	N/A	N/A
YEB	Yellow Bullhead	1.42	0.16	1.42	0.40	0.53	0.71
Total Pounds Fish/Set:			14.63	* Quartiles for Mean Weight			

Electrofishing Catch Summary for EF

Standard electrofishing

Total run-time for all stations: 02:05:00
Total on-time for all stations: 01:54:28
First Sampling Date: 05/12/2016
Last Sampling Date: 05/12/2016
Daylight Sampling: No
Target Species: All ages largemouth bass

Abbr	Species	Summary By Numbers			Summary By Weight (pounds)			Mean Weight
		Total Number	Number per Hour Run-Time	On-Time	Total Weight	Lbs per Hour Run-Time	On-Time	
LMB	Largemouth Bass	62	29.76	32.50	59.34	28.48	31.11	0.96

Length Frequency Distribution for GN

Standard gill net sets

(Field work conducted between 06/20/2016 and 06/23/2016)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>FRD</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	1	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	6	-	-	-	-	-	-	-	-
6.00 - 6.49	-	17	1	-	-	-	-	-	-	1
6.50 - 6.99	-	68	4	-	-	-	-	-	-	4
7.00 - 7.49	-	67	2	-	-	-	-	-	-	1
7.50 - 7.99	-	10	-	-	-	-	1	-	-	1
8.00 - 8.49	-	1	1	-	-	-	-	-	-	7
8.50 - 8.99	-	1	1	-	-	-	-	-	-	2
9.00 - 9.49	-	2	1	-	-	-	-	-	-	-
9.50 - 9.99	-	2	1	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	1
10.50 - 10.99	-	7	-	-	-	-	-	-	-	-
11.00 - 11.49	-	3	-	1	-	-	-	-	-	-
11.50 - 11.99	-	-	-	5	-	-	-	-	-	-
12.00 - 12.99	1	-	-	6	-	-	-	-	-	-
13.00 - 13.99	-	-	-	1	-	-	-	-	2	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	5	-	-	-	1	-	-
16.00 - 16.99	-	-	-	-	1	-	-	-	-	-
17.00 - 17.99	-	-	-	1	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	1	1	-	-	-	-
19.00 - 19.99	-	-	-	-	1	3	-	-	-	-
20.00 - 20.99	-	-	-	-	-	8	-	-	-	-
21.00 - 21.99	-	-	-	-	-	7	-	-	-	-
22.00 - 22.99	-	-	-	-	-	6	-	-	-	-
23.00 - 23.99	-	-	-	-	-	5	-	-	-	-
24.00 - 24.99	-	-	-	-	-	4	-	-	-	-
25.00 - 25.99	-	-	-	-	-	3	-	-	-	-
26.00 - 26.99	-	-	-	-	-	2	-	-	-	-
27.00 - 27.99	-	-	-	-	-	3	-	-	-	-
28.00 - 28.99	-	-	-	-	-	1	-	-	-	-
29.00 - 29.99	-	-	-	-	-	3	-	-	-	-
30.00 - 30.99	-	-	-	-	-	1	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>FRD</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	1	185	11	19	3	47	1	1	2	17
Min. Length	12.76	4.13	6.18	11.22	16.14	18.11	7.68	15.94	13.58	6.42
Max. Length	12.76	11.02	9.65	17.13	19.13	30.71	7.68	15.94	13.86	10.04
Mean Length	12.76	7.18	7.56	13.34	17.83	23.41	7.68	15.94	13.72	7.86
# Measured	1	175	11	19	3	47	1	1	2	16
No Lengths for	0	10	0	0	0	1	0	0	0	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 06/20/2016 and 06/23/2016)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>FRD</u>	<u>LMB</u>	<u>NOP</u>	<u>YEB</u>
< 3.00	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-
3.50 - 3.99	-	1	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-
4.50 - 4.99	-	1	-	-	-	-	-	-
5.00 - 5.49	-	-	3	-	-	-	-	-
5.50 - 5.99	-	7	7	-	-	-	-	-
6.00 - 6.49	-	14	6	-	-	-	-	-
6.50 - 6.99	-	40	10	-	-	-	-	-
7.00 - 7.49	-	33	8	-	-	-	-	-
7.50 - 7.99	-	11	2	-	-	-	-	-
8.00 - 8.49	-	4	1	-	-	-	-	-
8.50 - 8.99	-	4	2	-	-	-	-	-
9.00 - 9.49	-	6	1	-	-	-	-	-
9.50 - 9.99	-	1	-	-	-	-	-	-
10.00 - 10.49	-	2	-	-	-	-	-	-
10.50 - 10.99	-	-	-	1	-	-	-	-
11.00 - 11.49	-	1	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	1	-	-	-
12.00 - 12.99	-	-	-	-	1	-	-	-
13.00 - 13.99	1	-	-	-	-	-	-	1
14.00 - 14.99	-	-	-	-	1	1	1	-
15.00 - 15.99	-	-	-	1	6	1	-	-
16.00 - 16.99	-	-	-	-	7	1	-	-
17.00 - 17.99	-	-	-	1	3	-	-	-
18.00 - 18.99	-	-	-	-	4	-	1	-
19.00 - 19.99	-	-	-	-	1	-	-	-
20.00 - 20.99	-	-	-	3	-	-	2	-
21.00 - 21.99	-	-	-	2	-	-	1	-
22.00 - 22.99	-	-	-	-	-	-	1	-
23.00 - 23.99	-	-	-	-	-	-	1	-
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>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>FRD</u>	<u>LMB</u>	<u>NOP</u>	<u>YEB</u>
Total	1	125	40	8	24	3	7	1
Min. Length	13.98	3.86	5.16	10.63	11.77	14.76	14.37	13.74
Max. Length	13.98	11.02	9.02	21.85	19.37	16.22	23.62	13.74
Mean Length	13.98	7.16	6.72	18.55	16.43	15.55	20.08	13.74
# Measured	1	125	40	8	24	3	7	1
No Lengths for	0	1	0	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.

Length Frequency Distribution for EF**Standard electrofishing**

(Field work conducted on 05/12/2016)

	<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	1
7.50 - 7.99	5
8.00 - 8.49	7
8.50 - 8.99	9
9.00 - 9.49	10
9.50 - 9.99	5
10.00 - 10.49	1
10.50 - 10.99	1
11.00 - 11.49	-
11.50 - 11.99	-
12.00 - 12.99	-
13.00 - 13.99	2
14.00 - 14.99	5
15.00 - 15.99	7
16.00 - 16.99	7
17.00 - 17.99	-
18.00 - 18.99	2
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	62
Min. Length	7.28
Max. Length	18.70
Mean Length	11.39
# Measured	62
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.

DRAFT

Approval Dates And Notices

Date Approved By Metro West Area Fisheries Supervisor: _____

Date Approved By Central Region Fisheries
Manager: _____

This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 06/27/2016), and is therefore subject to change at any time.



Minnesota Department of Natural Resources

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