



Minnesota Department of Natural Resources
 Fisheries Management
LAKE SURVEY REPORT



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

Lake Name: Rebecca
 DOW Number: 27-0192-00

Survey Type: Standard Survey
 Survey ID Date: 06/06/2016

Lake Identification

Alternate Lake Name: N/A
 Primary Lake Class ID: 24

DNR Sounding Map Number: C0957
 Alternate Lake Class ID: N/A

Lake Location

Primary County: Hennepin

Nearest Town: Rockford

Legal Descriptions

Lake Center: Township - 119N Range - 24W Section - 32
 PLS Section Lake Center: 11902432

All Legal Descriptions:

Hennepin County: Township - 118N Range - 24W Section - 5
 Township - 119N Range - 24W Sections - 31, 32

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	N/A	Open to Public use	Concrete	Within Three Rivers Park District's Lake Rebecca Park. Fee required for parking boat-trailer combinations. System-wide season passes available.

Lake Characteristics

Lake Area (planimetered acres):	254.00	GIS Shoreline Length (miles):	3.12
GIS Lake Area (acres):	263.28	Maximum Fetch (miles):	1.01
DOW Lake Area (acres):	275.00	Fetch Orientation (degrees):	360
Littoral Area (acres):	138.00	USGS Quad Map Number:	R15c
Area in MN (acres):	263.28	USGS Quad 24K GIS Index:	3529
Maximum Depth (feet):	30.0		
Mean Depth (feet):	N/A		

Watershed Characteristics

Major Watershed

Name: South Fork Crow R
 Watershed Number: 19
 Watershed size (acres): 818,100

Minor Watershed

Name: S Fork Crow R
 Watershed Number: 1
 Watershed size (acres): 14,503

Surveys and Investigations

Initial Survey: 07/15/1954.

Re-Survey: 06/07/1999, 07/13/1987, 07/19/1978, 08/03/1970.

Population Assessment: 06/06/2011, 06/06/2005, 07/01/1996, 07/06/1993, 07/10/1991, 07/16/1986, 07/01/1985, 07/09/1984, 07/11/1983, 07/06/1982, 07/13/1981, 07/14/1980, 09/11/1979, 09/05/1974, 09/24/1973, 09/12/1972.

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	06/05/2016	27.5	Surface	71.6	7.6
			2.0	72.1	9.0
			4.0	71.2	9.1
			6.0	70.3	9.3
			8.0	70.2	9.3
			10.0	69.8	9.3
			12.0	69.4	9.4
			14.0	68.5	8.7
			16.0	62.6	6.7
			18.0	59.9	3.7
			20.0	58.3	1.4
			25.0	56.8	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	06/05/2016	Surface	N/A	N/A	N/A	N/A	N/A

Net Catch Summary by Numbers for TN

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

Number of Sets: 10
First Set Date: 06/05/2016
Last Lift Date: 06/07/2016
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	1	0.10	0.71	3.75	25.65
BLC	Black Crappie	72	7.20	1.83	6.50	21.16
BLG	Bluegill	273	27.30	7.54	23.13	62.50
CAP	Common Carp	1	0.10	0.38	0.74	2.00
GOS	Golden Shiner	10	1.00	0.17	0.30	0.83
GSF	Green Sunfish	9	0.90	0.20	0.50	1.29
HSF	Hybrid Sunfish	12	1.20	N/A	N/A	N/A
LMB	Largemouth Bass	5	0.50	0.20	0.33	0.67
MUE	Muskellunge	1	0.10	0.35	0.43	0.52
NOP	Northern Pike	1	0.10	N/A	N/A	N/A
PMK	Pumpkinseed	27	2.70	0.74	2.00	4.24
YEP	Yellow Perch	4	0.40	0.25	0.60	1.67
Total Fish/Set:			41.60	* 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 24*		
					25%	50%	75%
BLB	Black Bullhead	0.44	0.04	0.44	0.28	0.43	0.62
BLC	Black Crappie	3.09	0.31	0.04	0.18	0.24	0.33
BLG	Bluegill	33.10	3.31	0.12	0.13	0.18	0.25
CAP	Common Carp	3.42	0.34	3.42	2.58	4.07	6.02
GOS	Golden Shiner	0.73	0.07	0.07	0.07	0.10	0.13
GSF	Green Sunfish	0.89	0.09	0.10	0.07	0.10	0.17
HSF	Hybrid Sunfish	1.63	0.16	0.14	N/A	N/A	N/A
LMB	Largemouth Bass	0.74	0.07	0.15	0.15	0.31	0.91
MUE	Muskellunge	0.00	0.00	0.00	1.45	3.14	6.96
NOP	Northern Pike	2.40	0.24	2.40	N/A	N/A	N/A
PMK	Pumpkinseed	2.07	0.21	0.08	0.10	0.13	0.18
YEP	Yellow Perch	0.78	0.08	0.19	0.10	0.13	0.20
Total Pounds Fish/Set:			4.93	* Quartiles for Mean Weight			

Electrofishing Catch Summary for EF

Standard electrofishing

Total run-time for all stations: 02:04:00
Total on-time for all stations: 01:57:00
First Sampling Date: 05/18/2016
Last Sampling Date: 05/19/2016
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	195	94.35	100.00	96.52	46.70	49.49	0.49

LAKE SURVEY REPORT
STANDARD SURVEY DATED 06/06/2016 FOR DOW NUMBER 27-0192-00

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Length Frequency Distribution for TN

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

(Field work conducted between 06/05/2016 and 06/07/2016)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>GOS</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>YEP</u>
< 3.00	-	-	2	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	24	-	-	1	-	-	-	-	-
3.50 - 3.99	-	1	12	-	-	2	-	-	-	7	-
4.00 - 4.49	-	58	12	-	-	1	2	-	-	6	-
4.50 - 4.99	-	8	20	-	1	2	2	-	-	4	-
5.00 - 5.49	-	1	37	-	6	1	5	-	-	8	-
5.50 - 5.99	-	2	94	-	-	-	1	-	-	1	1
6.00 - 6.49	-	1	63	-	-	-	-	-	-	1	-
6.50 - 6.99	-	-	5	-	2	2	1	3	-	-	-
7.00 - 7.49	-	-	1	-	1	-	-	2	-	-	1
7.50 - 7.99	-	-	2	-	-	-	1	-	-	-	-
8.00 - 8.49	-	1	-	-	-	-	-	-	-	-	-
8.50 - 8.99	1	-	-	-	-	-	-	-	-	-	1
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-	1
9.50 - 9.99	-	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	-	-
10.50 - 10.99	-	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	1	-	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-
Total	1	72	272	1	10	9	12	5	1	27	4
Min. Length	8.86	3.78	2.83	18.35	4.57	3.15	4.17	6.54	22.05	3.54	5.98
Max. Length	8.86	8.27	7.64	18.35	7.13	6.77	7.68	7.09	22.05	6.30	9.25
Mean Length	8.86	4.43	5.36	18.35	5.68	4.69	5.37	6.79	22.05	4.59	7.82
# Measured	1	72	272	1	10	9	12	5	1	27	4
No Lengths for	0	0	1	0	0	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 between 05/18/2016 and 05/19/2016)

	<u>LMB</u>
< 3.00	-
3.00 - 3.49	-
3.50 - 3.99	-
4.00 - 4.49	-
4.50 - 4.99	1
5.00 - 5.49	-
5.50 - 5.99	4
6.00 - 6.49	31
6.50 - 6.99	28
7.00 - 7.49	28
7.50 - 7.99	19
8.00 - 8.49	13
8.50 - 8.99	3
9.00 - 9.49	7
9.50 - 9.99	2
10.00 - 10.49	3
10.50 - 10.99	5
11.00 - 11.49	5
11.50 - 11.99	3
12.00 - 12.99	23
13.00 - 13.99	12
14.00 - 14.99	4
15.00 - 15.99	2
16.00 - 16.99	-
17.00 - 17.99	1
18.00 - 18.99	-
19.00 - 19.99	-
20.00 - 20.99	1
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	195
Min. Length	4.72
Max. Length	20.08
Mean Length	8.88
# Measured	195
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.

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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