



# Minnesota Department of Natural Resources Fisheries Management



## STANDARD LAKE SURVEY REPORT

**DRAFT VERSION - PRELIMINARY DATA (AS OF 06/21/2012)**

**Lake Name: Lucy**

**Survey Type: Population Assessment**

**DOW Number: 10-0007-00**

**Survey ID Date: 06/13/2012**

### Lake Identification

Alternate Lake Name: N/A  
Primary Lake Class ID: 42

DNR Sounding Map Number: C2906  
Alternate Lake Class ID: N/A

### Lake Location

Primary County: Carver

Nearest Town: Chanhassen

### Legal Descriptions

Lake Center: Township - 116N Range - 23W Section - 2  
PLS Section Lake Center: 11602302

**All Legal Descriptions:**

Carver County: Township - 116N Range - 23W Sections - 2, 3, 10, 11

### Area Office

Area Name: Metro West  
Region Name: Central

ORG Code: F314  
Region Number: 3

### Lake Access

(Information based on Re-Survey dated 06/07/2000)

Station ID	Ownership	Public Use	Type	Location / Comments
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(Data excludes records where public use is not designated or is designated "No Public Use")

### Lake Characteristics

Lake Area (planimetered acres): 92.00	GIS Shoreline Length (miles): 2.33
GIS Lake Area (acres): 86.61	Maximum Fetch (miles): 1.13
DOW Lake Area (acres): 127.00	Fetch Orientation (degrees): 315
Littoral Area (acres): 86.00	USGS Quad Map Number: S15a
Area in MN (acres): 86.61	USGS Quad 24K GIS Index: 3630
Maximum Depth (feet): 20.0	
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: Riley Cr  
Watershed Number: 117  
Watershed size (acres): 8,387

**Surveys And Investigations**

Initial Survey: 06/19/1958.

Re-Survey: 06/07/2000, 06/27/1990, 06/26/1980.

Population Assessment: 06/13/2012, 06/12/2006, 07/05/1995, 06/27/1985.

**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	06/13/2012	18.6	Surface	71.8	8.1
			2.0	71.8	8.0
			4.0	71.8	7.9
			6.0	71.8	7.7
			8.0	71.2	6.5
			10.0	68.9	4.6
			12.0	64.8	3.2
			14.0	59.5	2.6
			16.0	57.0	2.0
			18.0	55.0	1.8

**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	06/13/2012	Surface	4.5	N/A	N/A	Brown Grn	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 3  
 First Set Date: 06/13/2012  
 Last Lift Date: 06/15/2012  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42*		
				25%	50%	75%
BLB	Black Bullhead	7	2.33	9.63	39.75	91.42
BLC	Black Crappie	14	4.67	1.50	5.50	14.69
BLG	Bluegill	41	13.67	N/A	N/A	N/A
GOS	Golden Shiner	3	1.00	0.37	0.67	4.33
NOP	Northern Pike	52	17.33	1.54	4.29	7.00
PMK	Pumpkinseed	3	1.00	N/A	N/A	N/A
YEB	Yellow Bullhead	35	11.67	0.63	3.00	6.75
YEP	Yellow Perch	3	1.00	3.00	8.00	26.50
Total Fish/Set:			52.67	* 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 42*		
					25%	50%	75%
BLB	Black Bullhead	6.51	2.17	0.93	0.18	0.28	0.49
BLC	Black Crappie	3.30	1.10	0.24	0.12	0.18	0.29
BLG	Bluegill	8.78	2.93	0.21	N/A	N/A	N/A
GOS	Golden Shiner	0.21	0.07	0.07	0.07	0.10	0.13
NOP	Northern Pike	145.58	48.53	2.80	1.49	2.17	3.40
PMK	Pumpkinseed	0.38	0.13	0.13	N/A	N/A	N/A
YEB	Yellow Bullhead	14.40	4.80	0.41	0.40	0.48	0.63
YEP	Yellow Perch	0.25	0.08	0.08	0.14	0.20	0.28
Total Pounds Fish/Set:			59.80	* 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: 06/13/2012  
 Last Lift Date: 06/15/2012  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42*		
				25%	50%	75%
BLB	Black Bullhead	2	0.22	2.20	17.30	60.46
BLC	Black Crappie	13	1.44	2.36	5.60	15.10
BLG	Bluegill	297	33.00	1.88	10.80	29.50
CAP	Common Carp	1	0.11	1.00	2.06	3.56
HSF	Hybrid Sunfish	3	0.33	N/A	N/A	N/A
NOP	Northern Pike	4	0.44	N/A	N/A	N/A
PMK	Pumpkinseed	19	2.11	0.80	2.74	8.38
YEB	Yellow Bullhead	4	0.44	0.83	2.43	6.15
YEP	Yellow Perch	1	0.11	0.48	1.29	3.45
Total Fish/Set:			38.22	* 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 42*		
					25%	50%	75%
BLB	Black Bullhead	2.15	0.24	1.08	0.19	0.30	0.50
BLC	Black Crappie	2.31	0.26	0.18	0.17	0.25	0.36
BLG	Bluegill	58.35	6.48	0.20	0.15	0.20	0.30
CAP	Common Carp	4.58	0.51	4.58	2.10	3.55	5.29
HSF	Hybrid Sunfish	0.77	0.09	0.26	N/A	N/A	N/A
NOP	Northern Pike	11.25	1.25	2.81	N/A	N/A	N/A
PMK	Pumpkinseed	2.88	0.32	0.15	0.09	0.14	0.20
YEB	Yellow Bullhead	2.30	0.26	0.57	0.43	0.56	0.69
YEP	Yellow Perch	0.11	0.01	0.11	0.10	0.17	0.27
Total Pounds Fish/Set:			9.41	* Quartiles for Mean Weight			

**Length Frequency Distribution For GN**

**Standard gill net sets**

(Field work conducted between 06/13/2012 and 06/15/2012)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>GOS</u>	<u>NOP</u>	<u>PMK</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	-	-	3	-	-	-	-	-
5.00 - 5.49	-	-	6	-	-	2	1	-
5.50 - 5.99	-	-	4	3	-	-	-	-
6.00 - 6.49	-	1	5	-	-	2	-	3
6.50 - 6.99	-	6	10	-	-	-	-	-
7.00 - 7.49	-	1	6	-	-	-	6	-
7.50 - 7.99	-	1	4	-	-	-	8	-
8.00 - 8.49	2	2	3	-	-	-	2	-
8.50 - 8.99	-	-	-	-	-	-	4	-
9.00 - 9.49	-	-	-	-	-	-	3	-
9.50 - 9.99	-	2	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	3	-
10.50 - 10.99	-	-	-	-	-	-	2	-
11.00 - 11.49	1	-	-	-	1	-	2	-
11.50 - 11.99	-	-	-	-	-	-	3	-
12.00 - 12.99	3	-	-	-	-	-	-	-
13.00 - 13.99	1	-	-	-	2	-	1	-
14.00 - 14.99	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	1	-	-	-
16.00 - 16.99	-	-	-	-	6	-	-	-
17.00 - 17.99	-	-	-	-	4	-	-	-
18.00 - 18.99	-	-	-	-	1	-	-	-
19.00 - 19.99	-	-	-	-	4	-	-	-
20.00 - 20.99	-	-	-	-	4	-	-	-
21.00 - 21.99	-	-	-	-	1	-	-	-
22.00 - 22.99	-	-	-	-	5	-	-	-
23.00 - 23.99	-	-	-	-	2	-	-	-
24.00 - 24.99	-	-	-	-	4	-	-	-
25.00 - 25.99	-	-	-	-	6	-	-	-
26.00 - 26.99	-	-	-	-	2	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	2	-	-	-
29.00 - 29.99	-	-	-	-	2	-	-	-
30.00 - 30.99	-	-	-	-	1	-	-	-
31.00 - 31.99	-	-	-	-	2	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	1	-	-	-
34.00 - 34.99	-	-	-	-	1	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-
	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>GOS</u>	<u>NOP</u>	<u>PMK</u>	<u>YEB</u>	<u>YEP</u>
Total	7	14	41	3	52	4	35	3
Min. Length	8.35	4.45	4.61	5.71	11.10	5.39	5.47	6.02
Max. Length	13.50	9.72	8.27	5.91	34.84	6.26	13.07	6.02
Mean Length	11.31	7.34	6.51	5.80	22.44	5.83	8.97	6.02
# Measured	7	14	36	3	52	2	35	1
No Lengths for	0	0	5	0	0	1	0	2

**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 06/13/2012 and 06/15/2012)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>HSF</u>	<u>NOP</u>	<u>PMK</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	2	-	-	-	-	-	-
3.00 - 3.49	-	-	7	-	-	-	-	-	-
3.50 - 3.99	-	-	11	-	-	-	-	-	-
4.00 - 4.49	-	-	13	-	-	-	1	-	-
4.50 - 4.99	-	3	20	-	-	-	4	-	-
5.00 - 5.49	-	1	30	-	-	-	4	-	-
5.50 - 5.99	-	-	34	-	1	-	5	-	-
6.00 - 6.49	-	-	35	-	-	-	3	-	1
6.50 - 6.99	-	1	44	-	1	-	3	-	-
7.00 - 7.49	-	4	69	-	-	-	-	-	-
7.50 - 7.99	-	-	30	-	1	-	-	-	-
8.00 - 8.49	-	1	-	-	-	-	-	-	-
8.50 - 8.99	-	3	1	-	-	-	-	-	-
9.00 - 9.49	-	-	1	-	-	-	-	-	-
9.50 - 9.99	-	-	-	-	-	-	-	1	-
10.00 - 10.49	-	-	-	-	-	1	-	1	-
10.50 - 10.99	-	-	-	-	-	-	-	1	-
11.00 - 11.49	-	-	-	-	-	-	-	1	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-
12.00 - 12.99	1	-	-	-	-	-	-	-	-
13.00 - 13.99	1	-	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-	2	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	1	-	-	-	-	-
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	-	-	-	-	-	1	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-
	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>HSF</u>	<u>NOP</u>	<u>PMK</u>	<u>YEB</u>	<u>YEP</u>
Total	2	13	297	1	3	4	20	4	1
Min. Length	12.68	4.65	2.83	21.42	5.55	10.28	4.45	9.61	6.18
Max. Length	13.31	8.78	9.02	21.42	7.56	33.11	6.89	11.22	6.18
Mean Length	12.99	6.88	6.18	21.42	6.56	20.27	5.59	10.47	6.18
# Measured	2	13	297	1	3	4	18	4	1
No Lengths for	0	0	0	0	0	0	1	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

Approval Dates And Notices

Date Approved By Metro West Area Fisheries Supervisor: \_\_\_\_\_

Date Approved By Central Region Fisheries Manager: \_\_\_\_\_

**This Draft version of the Standard Lake Survey Report contains preliminary data (as of 06/21/2012), 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.

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## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

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**Lake Name: Lucy**

**Survey Type: Population Assessment**

**DOW Number: 10-0007-00**

**Survey ID Date: 06/13/2012**

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**Survey Status:** Active

The following 23 (of 31) report components are not included in this report:

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

\* 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.

\* 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 after noon on 06/21/2012 may not be reflected in the Distribution tables until 06/22/2012.**