

Lake Name: Fox  
DOW Number: 51-0043-00

Survey Type: Standard Survey  
Survey ID Date: 07/06/2020

**Lake Identification**

Alternate Lake Name: N/A  
Primary Lake Class ID: 43

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

**Lake Location**

Primary County: Murray

Nearest Town: Currie

**Legal Descriptions**

Lake Center: Township - 108N Range - 40W Section - 28  
PLS Section Lake Center: 10804028

**All Legal Descriptions:**

Murray County: Township - 108N Range - 40W Sections - 21, 22, 27, 28

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Population Assessment dated 07/08/1996)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	STATE OWNED ACCESS ON SOUTHWEST SIDE OF LAKE.

**Lake Characteristics**

Lake Area (planimetered acres):	174.00	GIS Shoreline Length (miles):	2.74
GIS Lake Area (acres):	172.12	Maximum Fetch (miles):	1.00
DOW Lake Area (acres):	174.00	Fetch Orientation (degrees):	67
Littoral Area (acres):	183.30	USGS Quad Map Number:	V07b
Area in MN (acres):	172.12	USGS Quad 24K GIS Index:	4213
Maximum Depth (feet):	8.5		
Mean Depth (feet):	N/A		

**Watershed Characteristics**

**Major Watershed**

Name: Des Moines-Headwaters  
Watershed Number: 51  
Watershed size (acres): 798,595

**Minor Watershed**

Name: L Shetek  
Watershed Number: 78  
Watershed size (acres): 21,416

**Surveys and Investigations**

**Re-Survey:** 07/08/2002.  
**Population Assessment:** 07/07/2014, 07/08/1996.  
**Special Assessment:** 07/07/2014.  
**Dissolved Oxygen Check:** 02/16/2016, 02/18/2015, 12/31/2013, 01/02/2013, 01/11/2012, 12/28/2010.  
**Targeted Survey:** 02/14/2018, 01/18/2018.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	07/09/2014	High	-6.80	Above or below Benchmark

**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			
BM - 1	-6.80	07/09/2014	-6.80	07/09/2014	0.00	-6.80	Above or below Benchmark (1)

**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	07/06/2020	9.0	Surface	81.0	6.2
			1.0	80.8	6.3
			2.0	80.8	6.3
			3.0	80.8	6.3
			4.0	80.8	6.0
			5.0	80.8	5.9
			6.0	80.8	5.9
			7.0	80.8	5.8
			8.0	80.8	5.6
			9.0	80.8	5.5

**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	07/06/2020	Surface	0.7	8.60	240	Brown Grn	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 2  
 First Set Date: 07/06/2020  
 Last Lift Date: 07/08/2020  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	4	2.00	0.75	2.58	6.96
BLB	Black Bullhead	33	16.50	30.34	75.58	150.62
BLC	Black Crappie	57	28.50	1.41	3.71	13.75
CCF	Channel Catfish	25	12.50	N/A	N/A	N/A
CAP	Common Carp	1	0.50	1.00	3.33	13.75
NOP	Northern Pike	2	1.00	1.08	3.00	8.00
WAE	Walleye	7	3.50	2.28	6.83	18.06
YEP	Yellow Perch	3	1.50	2.65	8.00	25.00
Total Fish/Set:			66.00	* 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 43*		
					25%	50%	75%
BIB	Bigmouth Buffalo	32.56	16.28	8.14	N/A	N/A	N/A
BLB	Black Bullhead	21.58	10.79	0.65	0.17	0.26	0.39
BLC	Black Crappie	16.18	8.09	0.28	0.16	0.25	0.35
CCF	Channel Catfish	49.80	24.90	1.99	N/A	N/A	N/A
CAP	Common Carp	7.37	3.69	7.37	0.81	1.98	3.70
NOP	Northern Pike	5.68	2.84	2.84	1.82	2.50	3.35
WAE	Walleye	19.23	9.62	2.75	1.01	1.53	2.30
YEP	Yellow Perch	0.69	0.35	0.23	0.13	0.21	0.31
Total Pounds Fish/Set:			76.55	* Quartiles for Mean Weight			

**Net Catch Summary by Numbers for TN**

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

**Number of Sets:** 8  
**First Set Date:** 07/06/2020  
**Last Lift Date:** 07/09/2020  
**Target Species:** N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	12	1.50	0.17	0.38	1.04
BLB	Black Bullhead	48	6.00	11.50	42.00	132.61
BLC	Black Crappie	242	30.25	1.17	4.88	20.50
BLG	Bluegill	19	2.38	1.17	3.89	20.00
CCF	Channel Catfish	27	3.38	N/A	N/A	N/A
CAP	Common Carp	5	0.63	1.00	2.44	5.51
NOP	Northern Pike	2	0.25	N/A	N/A	N/A
WAE	Walleye	11	1.38	0.50	1.33	2.95
WHC	White Crappie	6	0.75	0.25	1.83	5.96
WTS	White Sucker	1	0.13	0.34	0.88	2.58
Total Fish/Set:			46.63	* 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 43*		
					25%	50%	75%
BIB	Bigmouth Buffalo	54.34	6.79	4.53	2.56	3.75	5.83
BLB	Black Bullhead	34.80	4.35	0.72	0.18	0.28	0.40
BLC	Black Crappie	87.26	10.91	0.36	0.22	0.34	0.50
BLG	Bluegill	8.34	1.04	0.44	0.13	0.24	0.39
CCF	Channel Catfish	114.18	14.27	4.23	N/A	N/A	N/A
CAP	Common Carp	34.93	4.37	6.99	1.42	2.92	4.58
NOP	Northern Pike	12.87	1.61	6.43	N/A	N/A	N/A
WAE	Walleye	42.90	5.36	3.90	0.82	1.44	2.28
WHC	White Crappie	2.11	0.26	0.35	0.27	0.40	0.63
WTS	White Sucker	1.74	0.22	1.74	1.05	1.47	2.04
Total Pounds Fish/Set:			49.18	* Quartiles for Mean Weight			

**Length Frequency Distribution for GN**

**Standard gill net sets**

(Field work conducted between 07/06/2020 and 07/08/2020)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>NOP</u>	<u>WAE</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	1	-	-	-	-	-
4.00 - 4.49	-	-	4	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	1	-	-	-	-	-
6.00 - 6.49	-	-	2	-	-	-	-	-
6.50 - 6.99	-	-	5	-	-	-	-	-
7.00 - 7.49	-	-	4	-	-	-	-	1
7.50 - 7.99	-	1	5	-	-	-	-	1
8.00 - 8.49	-	2	8	-	-	-	-	-
8.50 - 8.99	-	-	16	-	-	-	-	1
9.00 - 9.49	-	-	8	-	-	-	-	-
9.50 - 9.99	-	2	4	-	-	-	-	-
10.00 - 10.49	-	6	-	-	-	-	-	-
10.50 - 10.99	-	16	-	-	-	-	-	-
11.00 - 11.49	-	4	-	-	-	-	1	-
11.50 - 11.99	-	2	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	1	-	-	-
13.00 - 13.99	-	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	3	-	1	-
15.00 - 15.99	-	-	-	-	2	-	1	-
16.00 - 16.99	-	-	-	-	1	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	9	-	-	-
19.00 - 19.99	-	-	-	-	7	-	-	-
20.00 - 20.99	-	-	-	-	1	-	-	-
21.00 - 21.99	-	-	-	-	1	-	1	-
22.00 - 22.99	2	-	-	-	-	-	2	-
23.00 - 23.99	-	-	-	-	-	1	-	-
24.00 - 24.99	1	-	-	-	-	1	1	-
25.00 - 25.99	1	-	-	1	-	-	-	-
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>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>NOP</u>	<u>WAE</u>	<u>YEP</u>
Total	4	33	58	1	25	2	7	3
Min. Length	22.48	7.72	3.98	25.24	12.40	23.62	11.14	7.17
Max. Length	25.75	11.81	9.76	25.24	21.81	24.88	24.09	8.82
Mean Length	23.99	10.47	7.83	25.24	17.87	24.25	18.85	7.89
# Measured	4	33	50	1	25	2	7	3
No Lengths for	0	0	7	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 TN**

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

(Field work conducted between 07/06/2020 and 07/09/2020)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	5	-	-	-	-	-	-	-
4.00 - 4.49	-	-	10	-	-	-	-	-	-	-
4.50 - 4.99	-	-	1	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	1	-	-	-	-	-	-
6.00 - 6.49	-	-	-	2	-	-	-	-	-	-
6.50 - 6.99	-	1	25	-	-	-	-	-	-	-
7.00 - 7.49	-	-	20	-	-	-	-	-	-	-
7.50 - 7.99	-	-	17	4	-	-	-	-	-	-
8.00 - 8.49	-	2	12	5	-	-	-	-	-	-
8.50 - 8.99	-	-	48	5	-	-	-	-	4	-
9.00 - 9.49	-	-	39	2	-	-	-	-	2	-
9.50 - 9.99	1	1	45	-	-	-	-	-	-	-
10.00 - 10.49	-	9	6	-	-	-	-	-	-	-
10.50 - 10.99	-	11	13	-	-	-	-	-	-	-
11.00 - 11.49	-	17	2	-	-	-	-	-	-	-
11.50 - 11.99	-	3	-	-	-	-	-	-	-	-
12.00 - 12.99	-	3	-	-	-	-	-	-	-	-
13.00 - 13.99	2	1	-	-	-	-	-	-	-	-
14.00 - 14.99	2	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	1	-	1	-	-
16.00 - 16.99	1	-	-	-	-	-	-	1	-	1
17.00 - 17.99	-	-	-	-	-	3	-	-	-	-
18.00 - 18.99	-	-	-	-	-	4	-	1	-	-
19.00 - 19.99	-	-	-	-	-	4	-	1	-	-
20.00 - 20.99	-	-	-	-	-	3	-	2	-	-
21.00 - 21.99	1	-	-	-	2	2	-	-	-	-
22.00 - 22.99	3	-	-	-	-	1	-	1	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	1	-	-	-	-	3	-	-	-	-
25.00 - 25.99	1	-	-	-	1	-	-	1	-	-
26.00 - 26.99	-	-	-	-	1	1	-	3	-	-
27.00 - 27.99	-	-	-	-	1	2	-	-	-	-
28.00 - 28.99	-	-	-	-	-	1	-	-	-	-
29.00 - 29.99	-	-	-	-	-	1	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	1	-	-	-
31.00 - 31.99	-	-	-	-	-	1	1	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>
Total	12	48	243	19	5	27	2	11	6	1
Min. Length	9.88	6.61	3.78	5.94	21.50	15.20	30.79	15.20	8.50	16.10
Max. Length	25.00	13.23	11.06	9.29	27.24	31.14	31.06	26.89	9.02	16.10
Mean Length	18.54	10.80	8.56	8.04	24.56	21.89	30.93	21.61	8.86	16.10
# Measured	12	48	148	19	5	27	2	11	6	1
No Lengths for	0	0	94	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

**Other Species**

Gear Type (1)	Other Species (Gender) (2)	Total Num	Number Measured	Length (inches) Min - Mean - Max	Number Weighed	Weight (pounds) Min - Mean - Max
TN	Painted Turtle	7	0	N/A	0	N/A
	Snapping Turtle	1	1	14.17	0	N/A

**(1) Key to sampling gear abbreviations:**

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

**(2) Gender:** If identified and reported.

**Approval Dates And Notices**

Date Approved By Windom Area Fisheries Supervisor: \_\_\_\_\_

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

**This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 07/10/2020), 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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Lake Survey Report revision: 20190410-RJE. Data Date: 07/10/2020 at 6:45 am .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Fox

Survey Type: Standard Survey

DOW Number: 51-0043-00

Survey ID Date: 07/06/2020

Survey Status: Proposed

The following 21 (of 32) report components are not included in this Lake Survey Report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History<sup>1</sup>
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 Observations<sup>2</sup>
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Laboratory Analysis Of Water Chemistry
16. Length At Capture With Last Incremental Length\*
17. Back-Calculated Lengths
18. Age Class Frequency Distributions
19. Status Of Fishery And Field Notes
20. Water Quality (Winter Observations) (added to revision 01/21/2010)
21. Survey Attachments (added to revision 20150622)

<sup>1</sup> 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.

<sup>2</sup> 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 07/10/2020 may not be reflected in the Distribution tables until after 12:30 pm on 07/10/2020.**

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