

Lake Name: Little Spirit
DOW Number: 32-0024-00

Survey Type: Standard Survey
Survey ID Date: 07/27/2020

Lake Identification

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

DNR Sounding Map Number: C2523
Alternate Lake Class ID: N/A

Lake Location

Primary County: Jackson

Nearest Town: Jackson

Legal Descriptions

Lake Center: Township - 101N Range - 36W Section - 35
PLS Section Lake Center: 10103635

All Legal Descriptions:

Jackson County: Township - 101N Range - 36W Sections - 26, 34, 35

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Re-Survey dated 07/26/1993)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	Bordering State	Open to Public use	Concrete	N/A
AC - 2	Bordering State	Open to Public use	Gravel	STATE OF IOWA PUBLIC ACCESS ON SOUTH SIDE OF THE LAKE.

Lake Characteristics

Lake Area (planimetered acres): 572.00
GIS Lake Area (acres): 624.28
DOW Lake Area (acres): 452.00
Littoral Area (acres): 419.38
Area in MN (acres): 418.47
Maximum Depth (feet): 8.0
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 10.60
Maximum Fetch (miles): 1.50
Fetch Orientation (degrees): 22
USGS Quad Map Number: X09c
USGS Quad 24K GIS Index: 4717

Watershed Characteristics

Major Watershed

Name: Little Sioux River
Watershed Number: 84
Watershed size (acres): 205,753

Minor Watershed

Name: unknown DNR Minor Wshd
Watershed Number: 28
Watershed size (acres): 23,506

Surveys and Investigations

Initial Survey: 07/29/1985.
Re-Survey: 07/23/2001, 07/26/1993, 07/30/1990.
Population Assessment: 06/11/2012, 06/16/2008, 07/26/2004, 07/28/1997.
Special Assessment: 10/10/2004, 06/17/2002, 05/11/1995.
Dissolved Oxygen Check: 02/10/2016, 02/25/2015, 01/02/2014, 02/07/2013, 01/04/2013, 02/17/2012, 01/26/2012, 12/28/2010, 01/04/2010.
Natural Reproduction Check: 09/24/2014, 10/09/2013.
External Management Survey: 07/16/2014.
Standard Survey: 07/27/2020, 06/13/2016.
Targeted Survey: 01/10/2019, 01/19/2018, 09/27/2017, 09/28/2016, 10/13/2015.

Current Water Level

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	07/27/2020	Normal	-5.10	Above or below Benchmark

Benchmark and Gauge Descriptions / Locations

Station ID	Location Description
BM - 1	top or cement road box culvert

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	07/27/2020	Normal	-5.10	Above or below Benchmark
	06/17/2016	High	-4.60	Above or below Benchmark
	06/14/2012	Normal	-5.30	Above or below Benchmark
	06/17/2008	High	-4.90	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	-5.30	06/14/2012	-4.60	06/17/2016	0.70	-4.98	Above or below Benchmark (4)

Dissolved Oxygen and Temperature Profile of Lake Water

Station ID	Sampling Date	Bottom Depth (Feet)	Sample Depth (Feet)	Water	Dissolved
				Temperature (°F)	Oxygen (ppm)
WQ - 1	07/27/2020	8.5	Surface	79.2	7.0
			1.0	79.2	7.1
			2.0	79.2	6.9
			3.0	79.2	6.9
			4.0	79.2	6.8
			5.0	79.2	6.5
			6.0	79.0	5.7
			7.0	78.8	5.2
			8.0	78.8	4.9
			9.0	78.8	4.8

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	07/27/2020	Surface	0.9	8.50	260	Brown	N/A

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 3
 First Set Date: 07/27/2020
 Last Lift Date: 07/30/2020
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42*		
				25%	50%	75%
BIB	Bigmouth Buffalo	4	1.33	N/A	6.00	N/A
BLB	Black Bullhead	90	30.00	9.63	39.75	91.42
BLC	Black Crappie	16	5.33	1.50	5.50	14.69
CCF	Channel Catfish	14	4.67	N/A	N/A	N/A
CAP	Common Carp	1	0.33	0.33	1.25	4.20
FRD	Freshwater Drum	13	4.33	2.63	5.00	5.50
SNG	Shortnose Gar	47	15.67	N/A	N/A	N/A
WAE	Walleye	57	19.00	1.00	2.50	7.33
WHB	White Bass	6	2.00	N/A	0.25	N/A
WTS	White Sucker	1	0.33	0.50	2.00	7.44
YEB	Yellow Bullhead	1	0.33	0.63	3.00	6.75
YEP	Yellow Perch	9	3.00	3.00	8.00	26.50
Total Fish/Set:			86.33	* 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%
BIB	Bigmouth Buffalo	35.03	11.68	8.76	N/A	N/A	N/A
BLB	Black Bullhead	72.75	24.25	0.81	0.18	0.28	0.49
BLC	Black Crappie	14.17	4.72	0.89	0.12	0.18	0.29
CCF	Channel Catfish	37.63	12.54	2.69	N/A	N/A	N/A
CAP	Common Carp	7.82	2.61	7.82	0.78	2.00	5.00
FRD	Freshwater Drum	19.23	6.41	1.48	0.43	1.05	2.64
SNG	Shortnose Gar	103.68	34.56	2.21	N/A	N/A	N/A
WAE	Walleye	91.88	30.63	1.61	0.95	1.58	2.80
WHB	White Bass	8.96	2.99	1.49	N/A	-0.51	N/A
WTS	White Sucker	2.37	0.79	2.37	0.99	1.78	2.24
YEB	Yellow Bullhead	1.17	0.39	1.17	0.40	0.48	0.63
YEP	Yellow Perch	3.37	1.12	0.37	0.14	0.20	0.28
Total Pounds Fish/Set:			132.68	* Quartiles for Mean Weight			

Net Catch Summary by Numbers for TN

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

Number of Sets: 12
 First Set Date: 07/27/2020
 Last Lift Date: 07/30/2020
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42*		
				25%	50%	75%
BIB	Bigmouth Buffalo	7	0.58	N/A	0.30	N/A
BLB	Black Bullhead	157	13.08	2.20	17.30	60.46
BLC	Black Crappie	119	9.92	2.36	5.60	15.10
BLG	Bluegill	9	0.75	1.88	10.80	29.50
CCF	Channel Catfish	16	1.33	N/A	N/A	N/A
CAP	Common Carp	15	1.25	1.00	2.06	3.56
FRD	Freshwater Drum	12	1.00	0.11	1.33	7.00
LMB	Largemouth Bass	2	0.17	0.25	0.60	1.20
MUE	Muskellunge	2	0.17	N/A	N/A	N/A
NOP	Northern Pike	2	0.17	N/A	N/A	N/A
SNG	Shortnose Gar	26	2.17	N/A	N/A	N/A
WAE	Walleye	3	0.25	0.40	0.86	1.94
WHB	White Bass	5	0.42	0.06	0.13	1.17
WTS	White Sucker	1	0.08	0.28	0.67	2.20
YEB	Yellow Bullhead	1	0.08	0.83	2.43	6.15
YEP	Yellow Perch	1	0.08	0.48	1.29	3.45
Total Fish/Set:			31.50	* 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%
BIB	Bigmouth Buffalo	57.07	4.76	8.15	N/A	3.83	N/A
BLB	Black Bullhead	129.57	10.80	0.83	0.19	0.30	0.50
BLC	Black Crappie	79.40	6.62	0.67	0.17	0.25	0.36
BLG	Bluegill	3.67	0.31	0.41	0.15	0.20	0.30
CCF	Channel Catfish	59.88	4.99	3.74	N/A	N/A	N/A
CAP	Common Carp	95.47	7.96	6.36	2.10	3.55	5.29
FRD	Freshwater Drum	24.51	2.04	2.04	0.25	1.09	1.25
LMB	Largemouth Bass	9.42	0.79	4.71	0.37	0.61	1.20
MUE	Muskellunge	17.09	1.42	8.54	N/A	N/A	N/A
NOP	Northern Pike	9.75	0.81	4.88	N/A	N/A	N/A
SNG	Shortnose Gar	53.29	4.44	2.05	N/A	N/A	N/A
WAE	Walleye	4.52	0.38	1.51	0.59	1.53	2.56
WHB	White Bass	7.78	0.65	1.56	1.13	1.55	2.35
WTS	White Sucker	2.07	0.17	2.07	1.14	1.79	2.50
YEB	Yellow Bullhead	0.86	0.07	0.86	0.43	0.56	0.69
YEP	Yellow Perch	0.08	0.01	0.08	0.10	0.17	0.27
Total Pounds Fish/Set:			46.20	* Quartiles for Mean Weight			

Length Frequency Distribution for GN

Standard gill net sets

(Field work conducted between 07/27/2020 and 07/30/2020)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>SNG</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	1	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-	-	-	1
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-	-	-	-	-	-	-	-
7.50 - 7.99	-	-	-	-	-	-	-	-	-	-	-	-
8.00 - 8.49	-	1	-	-	-	-	-	-	-	-	-	1
8.50 - 8.99	-	-	1	-	-	-	-	-	-	-	-	1
9.00 - 9.49	-	1	-	-	-	-	-	-	-	-	-	2
9.50 - 9.99	-	6	1	-	-	-	-	-	-	-	-	1
10.00 - 10.49	-	5	6	-	-	-	-	2	-	-	-	1
10.50 - 10.99	-	26	1	-	-	-	-	1	-	-	-	1
11.00 - 11.49	-	19	1	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	19	4	-	-	-	-	2	-	-	-	-
12.00 - 12.99	-	10	2	-	-	-	-	6	-	-	1	-
13.00 - 13.99	-	2	-	-	-	1	-	10	1	-	-	-
14.00 - 14.99	-	1	-	-	-	4	-	4	4	-	-	-
15.00 - 15.99	-	-	-	-	1	5	-	7	-	-	-	-
16.00 - 16.99	-	-	-	-	-	1	-	4	1	-	-	-
17.00 - 17.99	-	-	-	-	1	1	-	5	-	1	-	-
18.00 - 18.99	-	-	-	-	5	-	-	3	-	-	-	-
19.00 - 19.99	-	-	-	-	4	-	-	5	-	-	-	-
20.00 - 20.99	-	-	-	-	2	-	-	3	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	2	-	-	-	-
22.00 - 22.99	1	-	-	-	-	-	2	-	-	-	-	-
23.00 - 23.99	1	-	-	-	-	-	6	-	-	-	-	-
24.00 - 24.99	1	-	-	-	-	-	5	-	-	-	-	-
25.00 - 25.99	-	-	-	1	-	-	17	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	10	1	-	-	-	-
27.00 - 27.99	1	-	-	-	1	-	6	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	1	-	-	-	-	-
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>FRD</u>	<u>SNG</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	4	90	16	1	14	13	47	55	6	1	1	8
Min. Length	22.64	8.03	8.70	25.75	15.08	2.80	22.83	10.31	13.62	17.80	12.83	5.98
Max. Length	27.17	14.49	12.99	25.75	27.95	17.72	29.09	26.38	16.77	17.80	12.83	10.83
Mean Length	24.54	11.21	10.95	25.75	19.48	14.39	25.67	15.81	14.67	17.80	12.83	9.06
# Measured	4	90	16	1	14	13	47	54	5	1	1	8
No Lengths for	0	0	0	0	0	0	0	3	1	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 07/27/2020 and 07/30/2020)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>MUE</u>	<u>NOP</u>	<u>SNG</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
7.50 - 7.99	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
8.00 - 8.49	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	3	6	1	-	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	-	7	32	-	-	-	-	-	-	-	-	-	-	-	-
9.50 - 9.99	-	9	14	-	-	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	16	25	-	-	-	-	-	-	-	-	-	-	-	-
10.50 - 10.99	-	26	13	-	-	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	20	4	-	-	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	39	4	-	-	-	-	-	-	-	-	-	-	-	1
12.00 - 12.99	-	25	12	-	-	-	-	-	-	-	-	-	-	-	-
13.00 - 13.99	-	7	-	-	-	-	-	-	-	-	-	-	2	-	-
14.00 - 14.99	-	1	-	-	-	-	3	-	-	-	-	-	1	-	-
15.00 - 15.99	1	1	-	-	-	-	4	-	-	-	-	2	-	-	-
16.00 - 16.99	1	-	-	-	1	1	3	-	-	-	-	1	1	-	-
17.00 - 17.99	-	-	-	-	-	1	1	-	-	-	-	-	1	1	-
18.00 - 18.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	4	-	2	-	-	1	-	-	-	-
20.00 - 20.99	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-
22.00 - 22.99	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-
23.00 - 23.99	1	-	-	-	2	1	-	-	-	-	1	-	-	-	-
24.00 - 24.99	-	-	-	-	5	-	-	-	-	-	8	-	-	-	-
25.00 - 25.99	1	-	-	-	2	1	-	-	-	-	6	-	-	-	-
26.00 - 26.99	2	-	-	-	3	1	-	-	-	-	6	-	-	-	-
27.00 - 27.99	-	-	-	-	-	1	-	-	-	2	2	-	-	-	-
28.00 - 28.99	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
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>FRD</u>	<u>LMB</u>	<u>MUE</u>	<u>NOP</u>	<u>SNG</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>
Total	7	156	118	9	15	16	12	2	2	2	26	3	5	1	1
Min. Length	15.91	8.15	5.20	4.45	16.73	16.81	14.49	19.33	28.58	27.36	19.33	15.00	13.23	17.05	11.61
Max. Length	28.15	15.20	12.87	8.98	26.22	27.17	22.44	19.76	34.17	27.48	27.48	16.57	17.17	17.05	11.61
Mean Length	23.23	11.21	9.94	7.58	23.75	21.46	16.36	19.55	31.38	27.42	24.99	15.72	14.90	17.05	11.61
# Measured	7	135	115	9	15	16	12	2	2	2	26	3	5	1	1
No Lengths for	0	22	4	0	0	0	0	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 TN (Continued)

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

(Field work conducted between 07/27/2020 and 07/30/2020)

	<u>YEP</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	1
6.00 - 6.49	-
6.50 - 6.99	-
7.00 - 7.49	-
7.50 - 7.99	-
8.00 - 8.49	-
8.50 - 8.99	-
9.00 - 9.49	-
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	-
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>YEP</u>
Total	1
Min. Length	5.67
Max. Length	5.67
Mean Length	5.67
# Measured	1
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 Windom Area Fisheries Supervisor: _____

Date Approved By Southern Region Fisheries Manager: _____

This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 07/31/2020), 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.

Lake Survey Report revision: 20190410-RJE. Data Date: 07/31/2020 at 9:06 am .

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REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Little Spirit
DOW Number: 32-0024-00

Survey Type: Standard Survey
Survey ID Date: 07/27/2020

Survey Status: Field Work Complete

The following 20 (of 32) report components are not included in this Lake Survey Report:

1. Water Level History¹
2. Lake Inlets
3. Additional Inlet Information
4. Lake Outlets
5. Additional Outlet Information
6. Water Control Structure (Dam)
7. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations²
8. Resorts And Campgrounds
9. Fish Spawning Conditions
10. Erosion And Pollution
11. Fish Diseases And Parasites
12. Aquatic Vegetation And Shoalwater Substrates
13. Laboratory Analysis Of Water Chemistry
14. Length At Capture With Last Incremental Length*
15. Back-Calculated Lengths
16. Age Class Frequency Distributions
17. Status Of Fishery And Field Notes
18. Other Species (added to revision 03/24/2009)
19. Water Quality (Winter Observations) (added to revision 01/21/2010)
20. Survey Attachments (added to revision 20150622)

¹ 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.

² 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 07/31/2020 may not be reflected in the Distribution tables until after 12:30 pm on 07/31/2020.

FOR OFFICE USE ONLY: As of revision 20150622, this page is automatically suppressed on signed versions of this report (area supervisor, region manager, research biologist, research supervisor, program staff, or program manager signed).