



Minnesota Department of Natural Resources
 Fisheries Management
LAKE SURVEY REPORT



DRAFT VERSION - PRELIMINARY DATA (AS OF 09/30/2015)

Lake Name: Pelican

Survey Type: Standard Survey

DOW Number: 56-0786-00

Survey ID Date: 07/27/2015

Lake Identification

Alternate Lake Name: N/A
 Primary Lake Class ID: 27

DNR Sounding Map Number: C1847
 Alternate Lake Class ID: 22

Lake Location

Primary County: Otter Tail

Nearest Town: Pelican Rapids

Legal Descriptions

Lake Center: Township - 137N Range - 42W Section - 8
 PLS Section Lake Center: 13704208

All Legal Descriptions:

Otter Tail County: Township - 137N Range - 42W (Twelve various sections)
 Township - 137N Range - 43W Sections - 1, 2, 11, 12

Area Office

Area Name: Fergus Falls
 Region Name: Northwest

ORG Code: F115
 Region Number: 1

Lake Access

(Information based on Natural Reproduction Check dated 09/25/2014)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	A state owned public access is located off of County Road 31 along the east shoreline of the lake.
AC - 2	DNR	Open to Public use	Concrete	A state owned public access is located off of County Road 9 along the southwest shoreline of the lake.

Lake Characteristics

Lake Area (planimetered acres): 3,986.00	GIS Shoreline Length (miles): 17.09
GIS Lake Area (acres): 3,962.89	Maximum Fetch (miles): 5.77
DOW Lake Area (acres): 4,314.00	Fetch Orientation (degrees): 67
Littoral Area (acres): 1,625.00	USGS Quad Map Number: L05a
Area in MN (acres): 3,962.88	USGS Quad 24K GIS Index: 2210
Maximum Depth (feet): 55.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

Name: Otter Tail River
 Watershed Number: 56
 Watershed size (acres): 1,222,024

Minor Watershed

Name: Pelican R
 Watershed Number: 7
 Watershed size (acres): 27,299

Surveys and Investigations

Initial Survey: 07/14/1947.

Re-Survey: 07/29/1996, 07/25/1983, 07/31/1972.

Population Assessment: 08/02/2011, 07/28/2008, 07/25/2005, 07/29/2002, 07/26/1999, 07/27/1992, 07/26/1989, 07/28/1986, 08/14/1978.

Special Assessment: 09/07/2006, 09/02/2004, 09/04/2003, 09/18/2001, 05/05/2001, 09/14/2000, 09/09/1998, 09/06/1994, 09/22/1992, 07/24/1987, 09/26/1985.

Natural Reproduction Check: 09/25/2014, 09/12/2007.

External Management Survey: 07/07/2008.

Water Level History - Readings

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
GA - 1	08/02/2011	Normal	2.40	Direct Gauge Reading
	07/28/2008	Normal	1.66	Direct Gauge Reading

Water Level History - Station Summary

<u>Station ID</u>	<u>Minimum Level</u>		<u>Maximum Level</u>		<u>Range (feet)</u>	<u>Average Level (feet)</u>	<u>Reading Type (and number of readings)</u>
	<u>Feet</u>	<u>Date</u>	<u>Feet</u>	<u>Date</u>			
GA - 1	1.66	07/28/2008	2.40	08/02/2011	0.74	2.03	Direct Gauge Reading (2)

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 15
First Set Date: 07/27/2015
Last Lift Date: 07/31/2015
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 27*		
				25%	50%	75%
BLC	Black Crappie	6	0.40	0.39	1.00	2.69
BLG	Bluegill	160	10.67	N/A	N/A	N/A
HSF	Hybrid Sunfish	21	1.40	N/A	N/A	N/A
LMB	Largemouth Bass	6	0.40	0.25	0.67	1.40
MUE	Muskellunge	2	0.13	0.11	0.19	0.24
NOP	Northern Pike	45	3.00	2.76	5.06	9.00
PMK	Pumpkinseed	68	4.53	N/A	N/A	N/A
RKB	Rock Bass	45	3.00	0.60	1.33	3.86
SMB	Smallmouth Bass	3	0.20	0.11	0.33	0.94
TLC	Tullibee (Cisco)	4	0.27	0.77	2.14	6.18
WAE	Walleye	153	10.20	3.25	5.50	8.81
WTS	White Sucker	13	0.87	0.88	2.00	4.00
YEB	Yellow Bullhead	2	0.13	1.17	3.49	10.92
YEP	Yellow Perch	595	39.67	7.00	18.17	46.33
Total Fish/Set:			74.87	* 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 27*		
					25%	50%	75%
BLC	Black Crappie	4.86	0.32	0.81	0.25	0.38	0.60
BLG	Bluegill	30.02	2.00	0.19	N/A	N/A	N/A
HSF	Hybrid Sunfish	4.57	0.30	0.22	N/A	N/A	N/A
LMB	Largemouth Bass	5.80	0.39	0.97	0.52	0.77	1.17
MUE	Muskellunge	18.22	1.21	9.11	2.53	5.68	7.49
NOP	Northern Pike	126.02	8.40	2.80	1.57	2.04	2.75
PMK	Pumpkinseed	9.02	0.60	0.13	N/A	N/A	N/A
RKB	Rock Bass	15.17	1.01	0.34	0.30	0.40	0.51
SMB	Smallmouth Bass	3.25	0.22	1.08	0.90	1.50	1.97
TLC	Tullibee (Cisco)	1.30	0.09	0.33	0.61	0.94	1.41
WAE	Walleye	242.17	16.14	1.58	1.16	1.56	2.05
WTS	White Sucker	19.54	1.30	1.50	1.60	2.05	2.39
YEB	Yellow Bullhead	1.20	0.08	0.60	0.60	0.72	0.88
YEP	Yellow Perch	68.30	4.55	0.11	0.11	0.14	0.20
Total Pounds Fish/Set:			36.63	* Quartiles for Mean Weight			

Net Catch Summary by Numbers for TN

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

Number of Sets: 14
 First Set Date: 07/27/2015
 Last Lift Date: 07/31/2015
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 27*		
				25%	50%	75%
BLB	Black Bullhead	1	0.07	0.25	0.67	2.56
BLC	Black Crappie	4	0.29	0.36	0.90	2.32
BLG	Bluegill	433	30.93	4.39	16.21	48.97
BOF	Bowfin (Dogfish)	7	0.50	0.28	0.64	1.07
BRB	Brown Bullhead	2	0.14	0.25	0.75	1.57
GSF	Green Sunfish	6	0.43	0.17	0.41	0.98
HSF	Hybrid Sunfish	101	7.21	N/A	N/A	N/A
LMB	Largemouth Bass	28	2.00	0.33	0.67	1.25
NOP	Northern Pike	10	0.71	N/A	N/A	N/A
PMK	Pumpkinseed	14	1.00	1.76	3.67	7.78
RKB	Rock Bass	90	6.43	0.55	1.08	2.50
SMB	Smallmouth Bass	1	0.07	0.15	0.56	0.86
WAE	Walleye	17	1.21	0.20	0.43	0.75
WTS	White Sucker	1	0.07	0.17	0.38	1.08
YEB	Yellow Bullhead	3	0.21	1.17	2.40	5.18
YEP	Yellow Perch	69	4.93	0.62	1.30	3.46
Total Fish/Set:			56.21	* 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 27*		
					25%	50%	75%
BLB	Black Bullhead	0.19	0.01	0.19	0.45	0.66	0.91
BLC	Black Crappie	1.83	0.13	0.46	0.29	0.44	0.63
BLG	Bluegill	65.93	4.71	0.15	0.11	0.16	0.25
BOF	Bowfin (Dogfish)	37.49	2.68	5.36	3.70	4.36	5.09
BRB	Brown Bullhead	2.04	0.15	1.02	0.68	0.91	1.11
GSF	Green Sunfish	0.24	0.02	0.04	0.08	0.10	0.20
HSF	Hybrid Sunfish	9.44	0.67	0.09	N/A	N/A	N/A
LMB	Largemouth Bass	2.97	0.21	0.11	0.21	0.40	0.76
NOP	Northern Pike	33.80	2.41	3.38	N/A	N/A	N/A
PMK	Pumpkinseed	1.91	0.14	0.14	0.13	0.18	0.26
RKB	Rock Bass	16.89	1.21	0.19	0.26	0.36	0.53
SMB	Smallmouth Bass	0.09	0.01	0.09	0.24	0.46	0.52
WAE	Walleye	35.00	2.50	2.06	0.95	1.58	2.73
WTS	White Sucker	3.40	0.24	3.40	1.75	2.30	3.00
YEB	Yellow Bullhead	2.56	0.18	0.85	0.62	0.78	0.94
YEP	Yellow Perch	5.34	0.38	0.08	0.11	0.15	0.21
Total Pounds Fish/Set:			15.65	* Quartiles for Mean Weight			

Net Catch Summary by Numbers for STN

Special sampling with trap nets

Number of Sets: 12
 First Set Date: 04/17/2015
 Last Lift Date: 07/18/2015
 Target Species: All ages black crappie

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 27*		
				25%	50%	75%
BLC	Black Crappie	135	11.25	N/A	N/A	N/A
Total Fish/Set:			11.25	* Quartiles for Number Per Set		

Net Catch Summary by Weight for STN

Special sampling with trap nets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight	Quartiles for Lake Class 27*		
					25%	50%	75%
BLC	Black Crappie	78.54	6.55	0.58	N/A	N/A	N/A
Total Pounds Fish/Set:			6.55	* Quartiles for Mean Weight			

Net Catch Summary by Numbers for LTN

Large-frame (5 x 6 ft) trap nets

Number of Set - Days: 120
 First Set - Day Date: 04/24/2015
 Last Set - Day Date: 05/04/2015
 Target Species: All ages muskellunge

Abbr	Species	Total Fish	Number Per Set - Day	Quartiles for Lake Class 27*		
				25%	50%	75%
MUE	Muskellunge	27	0.23	N/A	N/A	N/A
Total Fish/Set - Day:			0.23	* Quartiles for Number Per Set - Day		

Net Catch Summary by Weight for LTN

Large-frame (5 x 6 ft) trap nets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set - Day	Mean Weight	Quartiles for Lake Class 27*		
					25%	50%	75%
MUE	Muskellunge	592.07	4.93	21.93	N/A	N/A	N/A
Total Pounds Fish/Set - Day:			4.93	* Quartiles for Mean Weight			

Natural Reproduction Catch Summary for SEF

Special sampling, electrofishing

Total run-time for all stations: 833333:19:57
Total on-time for all stations: N/A
First Sampling Date: 04/29/2015
Last Sampling Date: 05/20/2015
Daylight Sampling: No
Target Species: All ages muskellunge, Adult spawners muskellunge

Abbr	Species	Age	Total Number	Number Measured	Mean Length (inches)	Length Range (inches)		Catch Rates (number per hour)	
						Min	Max	Run-Time	On-Time
MUE	Muskellunge	All	22	22	44.60	34.02	50.00	0.00	N/A

Length Frequency Distribution for GN (for fish < 36.00 inches)

Standard gill net sets

(Field work conducted between 07/27/2015 and 07/31/2015)

	<u>BLC</u>	<u>BLG</u>	<u>HSF</u>	<u>LMB</u>	<u>MUE</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>SMB</u>	<u>TLC</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	1	-	-	-	-	-	-	-	-	-	-	-	2
3.00 - 3.49	-	1	1	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	43	1	-	-	-	9	3	-	-	-	-	-	-
4.00 - 4.49	-	8	1	-	-	-	6	4	-	-	-	-	-	-
4.50 - 4.99	-	3	-	-	-	-	16	4	-	-	-	-	-	-
5.00 - 5.49	-	8	2	2	-	-	14	4	-	-	-	-	-	42
5.50 - 5.99	-	13	8	-	-	-	5	5	-	-	-	-	-	241
6.00 - 6.49	-	11	1	-	-	-	10	-	-	-	-	-	-	156
6.50 - 6.99	-	21	3	-	-	-	4	2	-	-	-	-	-	69
7.00 - 7.49	-	22	1	-	-	-	3	4	-	-	-	-	-	32
7.50 - 7.99	-	16	2	-	-	-	-	3	-	-	-	-	-	20
8.00 - 8.49	-	9	-	-	-	-	1	2	-	3	-	-	-	16
8.50 - 8.99	-	3	-	-	-	-	-	3	1	-	-	-	-	11
9.00 - 9.49	-	1	1	-	-	-	-	3	-	-	-	-	-	5
9.50 - 9.99	-	-	-	-	-	-	-	5	-	-	1	-	-	1
10.00 - 10.49	-	-	-	-	-	-	-	2	-	-	-	1	2	-
10.50 - 10.99	4	-	-	-	-	-	-	1	-	-	2	-	-	-
11.00 - 11.49	1	-	-	1	-	-	-	-	-	-	3	-	-	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-	-	8	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-	-	-	1	20	2	-	-
13.00 - 13.99	1	-	-	1	-	1	-	-	2	-	6	1	-	-
14.00 - 14.99	-	-	-	2	-	3	-	-	-	-	19	2	-	-
15.00 - 15.99	-	-	-	-	-	1	-	-	-	-	20	1	-	-
16.00 - 16.99	-	-	-	-	-	1	-	-	-	-	12	3	-	-
17.00 - 17.99	-	-	-	-	-	1	-	-	-	-	24	2	-	-
18.00 - 18.99	-	-	-	-	-	1	-	-	-	-	21	1	-	-
19.00 - 19.99	-	-	-	-	-	2	-	-	-	-	5	-	-	-
20.00 - 20.99	-	-	-	-	-	5	-	-	-	-	2	-	-	-
21.00 - 21.99	-	-	-	-	-	5	-	-	-	-	3	-	-	-
22.00 - 22.99	-	-	-	-	-	4	-	-	-	-	2	-	-	-
23.00 - 23.99	-	-	-	-	-	2	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	6	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	4	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	1	2	-	-	-	-	2	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-	-	1	-	-	-
28.00 - 28.99	-	-	-	-	-	2	-	-	-	-	2	-	-	-
29.00 - 29.99	-	-	-	-	-	2	-	-	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	2	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	1	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	1	-	-	-	-	-	-	-	-	-

	<u>BLC</u>	<u>BLG</u>	<u>HSF</u>	<u>LMB</u>	<u>MUE</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>SMB</u>	<u>TLC</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	6	160	21	6	2	45	68	45	3	4	153	13	2	595
Min. Length	10.55	2.87	3.11	5.08	26.89	13.46	3.62	3.66	8.98	8.27	9.92	10.04	10.24	0.63
Max. Length	13.15	9.13	9.17	14.29	39.29	32.09	8.15	10.59	13.86	12.87	28.46	18.19	10.47	9.53
Mean Length	11.18	5.82	6.04	10.52	33.09	22.78	5.21	6.97	11.98	9.47	16.16	15.02	10.35	6.38
# Measured	6	160	21	6	2	45	68	45	3	4	153	13	2	383
No Lengths for	0	0	0	0	0	0	0	0	0	0	0	0	0	212

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 GN (for fish ≥ 36.00 inches)

Standard gill net sets

(Field work conducted between 07/27/2015 and 07/31/2015)

	<u>BLC</u>	<u>BLG</u>	<u>HSF</u>	<u>LMB</u>	<u>MUE</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>SMB</u>	<u>TLC</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 36.00	6	160	21	6	1	45	68	45	3	4	153	13	2	595
36.00 - 36.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.00 - 37.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38.00 - 38.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39.00 - 39.99	-	-	-	-	1	-	-	-	-	-	-	-	-	-
40.00 - 40.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41.00 - 41.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42.00 - 42.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43.00 - 43.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44.00 - 44.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45.00 - 45.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46.00 - 46.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47.00 - 47.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48.00 - 48.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49.00 - 49.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50.00 - 50.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51.00 - 51.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52.00 - 52.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53.00 - 53.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54.00 - 54.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55.00 - 55.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56.00 - 56.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57.00 - 57.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58.00 - 58.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59.00 - 59.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60.00 - 60.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61.00 - 61.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62.00 - 62.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63.00 - 63.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64.00 - 64.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65.00 - 65.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66.00 - 66.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67.00 - 67.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68.00 - 68.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69.00 - 69.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70.00 - 70.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71.00 - 71.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72.00 - 72.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73.00 - 73.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74.00 - 74.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75.00 - 75.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76.00 - 76.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77.00 - 77.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 78.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	6	160	21	6	2	45	68	45	3	4	153	13	2	595
Min. Length	10.55	2.87	3.11	5.08	26.89	13.46	3.62	3.66	8.98	8.27	9.92	10.04	10.24	0.63
Max. Length	13.15	9.13	9.17	14.29	39.29	32.09	8.15	10.59	13.86	12.87	28.46	18.19	10.47	9.53
Mean Length	11.18	5.82	6.04	10.52	33.09	22.78	5.21	6.97	11.98	9.47	16.16	15.02	10.35	6.38
# Measured	6	160	21	6	2	45	68	45	3	4	153	13	2	383
No Lengths for	0	0	0	0	0	0	0	0	0	0	0	0	0	212

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 07/27/2015 and 07/31/2015)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>BRB</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>SMB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>
< 3.00	-	-	2	-	-	-	1	-	-	-	2	-	-	-	-
3.00 - 3.49	-	-	42	-	-	-	11	-	-	1	9	-	-	-	-
3.50 - 3.99	-	-	78	-	-	5	20	-	-	4	21	-	-	-	-
4.00 - 4.49	-	-	18	-	-	1	15	-	-	2	6	-	-	-	-
4.50 - 4.99	-	-	32	-	-	-	16	4	-	-	12	-	-	-	-
5.00 - 5.49	-	-	47	-	-	-	16	5	-	2	12	1	-	-	-
5.50 - 5.99	-	-	50	-	-	-	14	9	-	1	4	-	-	-	-
6.00 - 6.49	-	-	38	-	-	-	2	4	-	-	3	-	-	-	-
6.50 - 6.99	-	1	35	-	-	-	3	4	-	2	3	-	-	-	-
7.00 - 7.49	1	-	41	-	-	-	2	2	-	2	3	-	-	-	-
7.50 - 7.99	-	-	32	-	-	-	1	-	1	-	-	-	-	-	-
8.00 - 8.49	-	-	15	-	-	-	-	-	-	-	1	-	-	-	-
8.50 - 8.99	-	1	3	-	-	-	-	-	-	-	2	-	-	-	-
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
9.50 - 9.99	-	1	-	-	-	-	-	-	-	-	4	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	-	5	-	-	-	1
10.50 - 10.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
11.00 - 11.49	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
11.50 - 11.99	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
12.00 - 12.99	-	-	-	-	2	-	-	-	-	-	-	-	1	-	1
13.00 - 13.99	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
16.00 - 16.99	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
18.00 - 18.99	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-
23.00 - 23.99	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
26.00 - 26.99	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
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>BOF</u>	<u>BRB</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>SMB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>
Total	1	4	433	7	2	6	101	28	10	14	90	1	17	1	3
Min. Length	7.09	6.73	2.60	16.85	12.20	3.62	0.55	4.80	7.95	3.23	0.24	5.20	11.57	20.04	10.35
Max. Length	7.09	11.42	8.98	28.35	12.87	4.02	7.64	7.48	31.89	7.20	10.35	5.20	24.41	20.04	12.99
Mean Length	7.09	9.07	5.29	24.59	12.54	3.79	4.65	5.90	23.06	5.10	5.36	5.20	17.57	20.04	11.48
# Measured	1	4	269	7	2	6	101	28	10	14	90	1	17	1	3
No Lengths for	0	0	164	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 07/27/2015 and 07/31/2015)

	<u>YEP</u>
< 3.00	-
3.00 - 3.49	-
3.50 - 3.99	1
4.00 - 4.49	3
4.50 - 4.99	14
5.00 - 5.49	30
5.50 - 5.99	8
6.00 - 6.49	3
6.50 - 6.99	4
7.00 - 7.49	2
7.50 - 7.99	2
8.00 - 8.49	2
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	69
Min. Length	3.98
Max. Length	8.27
Mean Length	5.46
# Measured	69
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

Length Frequency Distribution for STN

Special sampling with trap nets

(Field work conducted between 04/17/2015 and 07/18/2015)

	<u>BLC</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	1
7.00 - 7.49	6
7.50 - 7.99	3
8.00 - 8.49	7
8.50 - 8.99	17
9.00 - 9.49	15
9.50 - 9.99	22
10.00 - 10.49	21
10.50 - 10.99	19
11.00 - 11.49	5
11.50 - 11.99	4
12.00 - 12.99	12
13.00 - 13.99	3
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>BLC</u>
Total	135
Min. Length	6.93
Max. Length	13.70
Mean Length	9.93
# Measured	135
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

Length Frequency Distribution for LTN (for fish < 36.00 inches)

Large-frame (5 x 6 ft) trap nets

(Field work conducted between 04/24/2015 and 05/04/2015)

	<u>MUE</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	-
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	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	26

	<u>MUE</u>
Total	27
Min. Length	25.24
Max. Length	51.73
Mean Length	43.59
# Measured	27
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

Length Frequency Distribution for LTN (for fish \geq 36.00 inches)

Large-frame (5 x 6 ft) trap nets

(Field work conducted between 04/24/2015 and 05/04/2015)

	<u>MUE</u>
< 36.00	1
36.00 - 36.99	-
37.00 - 37.99	2
38.00 - 38.99	-
39.00 - 39.99	1
40.00 - 40.99	4
41.00 - 41.99	-
42.00 - 42.99	1
43.00 - 43.99	4
44.00 - 44.99	3
45.00 - 45.99	4
46.00 - 46.99	2
47.00 - 47.99	-
48.00 - 48.99	1
49.00 - 49.99	1
50.00 - 50.99	1
51.00 - 51.99	2
52.00 - 52.99	-
53.00 - 53.99	-
54.00 - 54.99	-
55.00 - 55.99	-
56.00 - 56.99	-
57.00 - 57.99	-
58.00 - 58.99	-
59.00 - 59.99	-
60.00 - 60.99	-
61.00 - 61.99	-
62.00 - 62.99	-
63.00 - 63.99	-
64.00 - 64.99	-
65.00 - 65.99	-
66.00 - 66.99	-
67.00 - 67.99	-
68.00 - 68.99	-
69.00 - 69.99	-
70.00 - 70.99	-
71.00 - 71.99	-
72.00 - 72.99	-
73.00 - 73.99	-
74.00 - 74.99	-
75.00 - 75.99	-
76.00 - 76.99	-
77.00 - 77.99	-
= > 78.00	-

	<u>MUE</u>
Total	27
Min. Length	25.24
Max. Length	51.73
Mean Length	43.59
# Measured	27
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

Length Frequency Distribution for SEF (for fish < 36.00 inches)

Special sampling, electrofishing

(Field work conducted between 04/29/2015 and 05/20/2015)

	<u>MUE</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	-
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	1
35.00 - 35.99	-
= > 36.00	21

	<u>MUE</u>
Total	22
Min. Length	34.02
Max. Length	50.00
Mean Length	44.60
# Measured	22
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

Length Frequency Distribution for SEF (for fish \geq 36.00 inches)

Special sampling, electrofishing

(Field work conducted between 04/29/2015 and 05/20/2015)

	<u>MUE</u>
< 36.00	1
36.00 - 36.99	-
37.00 - 37.99	-
38.00 - 38.99	-
39.00 - 39.99	-
40.00 - 40.99	-
41.00 - 41.99	-
42.00 - 42.99	3
43.00 - 43.99	6
44.00 - 44.99	3
45.00 - 45.99	2
46.00 - 46.99	4
47.00 - 47.99	-
48.00 - 48.99	1
49.00 - 49.99	-
50.00 - 50.99	2
51.00 - 51.99	-
52.00 - 52.99	-
53.00 - 53.99	-
54.00 - 54.99	-
55.00 - 55.99	-
56.00 - 56.99	-
57.00 - 57.99	-
58.00 - 58.99	-
59.00 - 59.99	-
60.00 - 60.99	-
61.00 - 61.99	-
62.00 - 62.99	-
63.00 - 63.99	-
64.00 - 64.99	-
65.00 - 65.99	-
66.00 - 66.99	-
67.00 - 67.99	-
68.00 - 68.99	-
69.00 - 69.99	-
70.00 - 70.99	-
71.00 - 71.99	-
72.00 - 72.99	-
73.00 - 73.99	-
74.00 - 74.99	-
75.00 - 75.99	-
76.00 - 76.99	-
77.00 - 77.99	-
= > 78.00	-

	<u>MUE</u>
Total	22
Min. Length	34.02
Max. Length	50.00
Mean Length	44.60
# Measured	22
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 Fergus Falls Area Fisheries Supervisor: _____

Date Approved By Northwest Region Fisheries Manager: _____

This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 09/30/2015), 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 Lake Survey Report and should be discarded)

Lake Name: Pelican

Survey Type: Standard Survey

DOW Number: 56-0786-00

Survey ID Date: 07/27/2015

Survey Status: Proposed

The following 24 (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 History¹
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 Observations²
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Dissolved Oxygen And Temperature Profile Of Lake Water
16. Field Measurements Of Water Quality
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)
24. 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 after noon on 09/30/2015 may not be reflected in the Distribution tables until 10/01/2015.

The following survey component was flagged to be specifically excluded from this report: STN - 1

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