



Minnesota Department of Natural Resources  
 Fisheries Management  
 STANDARD LAKE SURVEY REPORT



Lake Name: Sabre  
 DOW Number: 40-0014-00

Survey Type: Population Assessment  
 Survey ID Date: 06/15/2009

**Lake Identification**

Alternate Lake Name: N/A  
 Primary Lake Class ID: 43  
 DNR Sounding Map Number: C1917  
 Alternate Lake Class ID: 43

**Lake Location**

Primary County: Le Sueur  
 Nearest Town: Cordova

**Legal Descriptions**

Lake Center: Township - 110N Range - 23W Section - 30  
 PLS Section Lake Center: 11002330

**All Legal Descriptions:**

Le Sueur County: Township - 110N Range - 23W Sections - 29, 30

**Area Office**

Area Name: Waterville  
 Region Name: Southern  
 ORG Code: F417  
 Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 07/06/2004)

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): 263.00	GIS Shoreline Length (miles): 2.70
GIS Lake Area (acres): 258.11	Maximum Fetch (miles): 1.00
DOW Lake Area (acres): 253.00	Fetch Orientation (degrees): N/A
Littoral Area (acres): 263.00	USGS Quad Map Number: U15c
Area in MN (acres): 258.11	USGS Quad 24K GIS Index: 4129
Maximum Depth (feet): 13.0	
Mean Depth (feet): N/A	

**Watershed Characteristics**

Major Watershed	Minor Watershed
Name: Cannon River	Name: Cannon R
Watershed Number: 39	Watershed Number: 103
Watershed size (acres): 940,540	Watershed size (acres): 22,872

**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

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**Surveys And Investigations**

**Initial Survey:** 08/07/1968.  
**Re-Survey:** 07/06/2004, 07/06/1999, 07/21/1994, 07/31/1989, 08/05/1986, 05/28/1981.  
**Population Assessment:** 06/15/2009, 09/08/1981.  
**Special Assessment:** 09/29/2005, 09/28/2004, 10/14/2003, 10/10/2002, 10/16/2001, 10/18/2000,  
10/28/1999, 10/22/1998, 10/02/1997, 09/23/1996, 10/23/1995, 10/12/1994,  
09/29/1993, 10/22/1992, 10/16/1991, 10/16/1990, 10/12/1989, 10/11/1988.  
**Dissolved Oxygen Check:** 01/14/2010.  
**Natural Reproduction Check:** 10/25/2007.

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**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	06/15/2009	N/A	Surface	69.4	5.9
			1.0	69.4	6.1
			2.0	69.4	6.0
			3.0	69.4	6.1
			4.0	69.4	6.1
			5.0	69.3	5.9
			6.0	69.3	5.9
			7.0	68.7	5.2
			8.0	64.8	3.7
			9.0	63.7	2.7
			10.0	63.5	2.6

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**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	06/15/2009	Surface	7.1	N/A	N/A	N/A	N/A

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**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

**Net Catch Summary by Numbers for GN**

**Standard gill net sets**

**Number of Sets:** 6  
**First Set Date:** 06/15/2009  
**Last Lift Date:** 06/18/2009  
**Target Species:** N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BLB	Black Bullhead	4	0.67	30.34	75.58	150.62
BLG	Bluegill	9	1.50	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	17	2.83	0.17	0.35	0.54
CCF	Channel Catfish	7	1.17	N/A	N/A	N/A
CAP	Common Carp	1	0.17	1.00	3.33	13.75
FRD	Freshwater Drum	14	2.33	0.50	2.56	8.33
HFS	Highfin Carpsucker	1	0.17	N/A	N/A	N/A
NOP	Northern Pike	40	6.67	1.08	3.00	8.00
WAE	Walleye	8	1.33	2.28	6.83	18.06
WHB	White Bass	31	5.17	0.28	5.50	9.94
WTS	White Sucker	27	4.50	0.81	2.33	6.50
YEB	Yellow Bullhead	12	2.00	0.50	1.50	3.50
YEP	Yellow Perch	28	4.67	2.65	8.00	25.00
Total Fish/Set:			33.17	* 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%
BLB	Black Bullhead	3.63	0.61	0.91	0.17	0.26	0.39
BLG	Bluegill	2.16	0.36	0.24	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	89.56	14.93	5.27	1.79	2.58	3.05
CCF	Channel Catfish	66.43	11.07	9.49	N/A	N/A	N/A
CAP	Common Carp	5.38	0.90	5.38	0.81	1.98	3.70
FRD	Freshwater Drum	18.17	3.03	1.30	0.40	0.82	1.67
HFS	Highfin Carpsucker	N/A	N/A	N/A	N/A	N/A	N/A
NOP	Northern Pike	145.41	24.23	3.64	1.82	2.50	3.35
WAE	Walleye	12.73	2.12	1.59	1.01	1.53	2.30
WHB	White Bass	39.58	6.60	1.28	N/A	N/A	N/A
WTS	White Sucker	63.59	10.60	2.36	0.93	1.58	2.02
YEB	Yellow Bullhead	17.89	2.98	1.49	0.31	0.53	0.73
YEP	Yellow Perch	7.21	1.20	0.26	0.13	0.21	0.31
Total Pounds Fish/Set:			78.63	* Quartiles for Mean Weight			

**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

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**Net Catch Summary by Numbers for TN**

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

Number of Sets: 8  
 First Set Date: 06/15/2009  
 Last Lift Date: 06/18/2009  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BLB	Black Bullhead	22	2.75	11.50	42.00	132.61
BLG	Bluegill	20	2.50	1.17	3.89	20.00
BOF	Bowfin (Dogfish)	29	3.63	0.33	0.50	0.92
CAP	Common Carp	28	3.50	1.00	2.44	5.51
FRD	Freshwater Drum	44	5.50	0.23	0.92	3.25
NOP	Northern Pike	3	0.38	N/A	N/A	N/A
WHB	White Bass	2	0.25	0.17	0.37	0.70
WTS	White Sucker	4	0.50	0.34	0.88	2.58
YEB	Yellow Bullhead	62	7.75	0.50	1.13	2.50
YEP	Yellow Perch	1	0.13	0.33	1.37	3.76
Total Fish/Set:			26.88	* 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%
BLB	Black Bullhead	28.12	3.52	1.28	0.18	0.28	0.40
BLG	Bluegill	5.32	0.67	0.27	0.13	0.24	0.39
BOF	Bowfin (Dogfish)	133.41	16.68	4.60	2.71	3.31	3.78
CAP	Common Carp	152.30	19.04	5.44	1.42	2.92	4.58
FRD	Freshwater Drum	63.11	7.89	1.43	0.28	0.60	0.95
NOP	Northern Pike	10.12	1.27	3.37	N/A	N/A	N/A
WHB	White Bass	3.07	0.38	1.54	0.23	0.35	0.60
WTS	White Sucker	14.60	1.82	3.65	1.05	1.47	2.04
YEB	Yellow Bullhead	83.61	10.45	1.35	0.31	0.48	0.67
YEP	Yellow Perch	0.35	0.04	0.35	0.11	0.18	0.30
Total Pounds Fish/Set:			61.75	* Quartiles for Mean Weight			

**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

**Length Frequency Distribution For GN**

**Standard gill net sets**

(Field work conducted between 06/15/2009 and 06/18/2009)

	<u>BLB</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>HFS</u>	<u>NOP</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<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	-	2	-	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-	-	-	2
6.50 - 6.99	-	3	-	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	-	2	-	-	-	-	-	-	-	-	-	-	7
7.50 - 7.99	-	2	-	-	-	-	-	-	-	-	-	-	1
8.00 - 8.49	-	-	-	-	-	-	-	-	-	-	-	-	10
8.50 - 8.99	1	-	-	-	-	-	-	-	-	-	-	-	3
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-	-	-	5
9.50 - 9.99	-	-	-	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	-	-	-	-
10.50 - 10.99	-	-	-	-	-	1	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-	-	-	-	-	-	-	1	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-	2	-	-	-
12.00 - 12.99	3	-	-	-	-	1	-	-	-	5	2	1	-
13.00 - 13.99	-	-	-	-	-	3	-	-	1	10	2	6	-
14.00 - 14.99	-	-	-	-	-	4	1	-	3	5	5	2	-
15.00 - 15.99	-	-	-	-	-	4	-	1	1	7	-	2	-
16.00 - 16.99	-	-	-	-	-	1	-	-	1	2	4	-	-
17.00 - 17.99	-	-	-	-	-	-	-	3	1	-	2	-	-
18.00 - 18.99	-	-	-	-	-	-	-	1	-	-	1	-	-
19.00 - 19.99	-	-	-	-	-	-	-	5	-	-	5	-	-
20.00 - 20.99	-	-	-	-	-	-	-	3	1	-	4	-	-
21.00 - 21.99	-	-	-	-	-	-	-	1	-	-	-	-	-
22.00 - 22.99	-	-	4	1	-	-	-	4	-	-	2	-	-
23.00 - 23.99	-	-	4	-	-	-	-	4	-	-	-	-	-
24.00 - 24.99	-	-	4	-	-	-	-	2	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	1	-	-	-	-	-
26.00 - 26.99	-	-	-	-	3	-	-	2	-	-	-	-	-
27.00 - 27.99	-	-	3	-	1	-	-	3	-	-	-	-	-
28.00 - 28.99	-	-	1	-	2	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	1	-	-	-	-	4	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	3	-	-	-	-	-
31.00 - 31.99	-	-	-	-	1	-	-	1	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	1	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	1	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>4</b>	<b>9</b>	<b>17</b>	<b>1</b>	<b>7</b>	<b>14</b>	<b>1</b>	<b>40</b>	<b>8</b>	<b>31</b>	<b>27</b>	<b>12</b>	<b>28</b>
Min. Length	8.86	5.91	22.20	22.64	26.18	10.94	14.06	15.04	13.78	11.65	12.83	11.26	6.22
Max. Length	12.60	7.56	29.53	22.64	31.65	16.73	14.06	34.65	20.67	16.26	22.32	15.24	9.29
Mean Length	11.52	6.81	24.75	22.64	28.00	14.28	14.06	24.30	16.00	13.95	17.40	13.80	8.16
# Measured	4	5	17	1	7	13	1	40	8	31	26	12	21
No Lengths for	0	3	0	0	0	1	0	0	0	0	1	0	7

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**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

**Length Frequency Distribution For TN**

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

(Field work conducted between 06/15/2009 and 06/18/2009)

	<u>BLB</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	1	-	-	1	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	1	-	-	-	-	-	-	-	-
4.50 - 4.99	-	2	-	-	-	-	-	-	-	-
5.00 - 5.49	-	1	-	-	-	-	-	-	-	-
5.50 - 5.99	-	2	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	6	-	-	-	-	-	-	-	-
7.00 - 7.49	-	4	-	-	-	-	-	-	-	-
7.50 - 7.99	-	1	-	-	-	-	-	-	-	-
8.00 - 8.49	-	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	1	-	-	-	-	-	-	-	1
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-
9.50 - 9.99	-	1	-	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	2	-	-	-	2	-
10.50 - 10.99	1	-	-	-	2	-	-	-	1	-
11.00 - 11.49	1	-	-	-	-	-	-	-	1	-
11.50 - 11.99	1	-	-	-	-	-	-	-	3	-
12.00 - 12.99	6	-	-	-	5	-	-	-	19	-
13.00 - 13.99	12	-	-	-	2	-	-	-	13	-
14.00 - 14.99	1	-	-	-	7	-	1	-	19	-
15.00 - 15.99	-	-	-	1	14	-	1	-	4	-
16.00 - 16.99	-	-	1	3	9	-	-	-	-	-
17.00 - 17.99	-	-	1	3	2	-	-	-	-	-
18.00 - 18.99	-	-	-	1	-	-	-	1	-	-
19.00 - 19.99	-	-	-	1	-	-	-	-	-	-
20.00 - 20.99	-	-	1	2	-	-	-	2	-	-
21.00 - 21.99	-	-	4	4	-	1	-	-	-	-
22.00 - 22.99	-	-	2	4	-	-	-	1	-	-
23.00 - 23.99	-	-	8	2	-	1	-	-	-	-
24.00 - 24.99	-	-	5	1	-	-	-	-	-	-
25.00 - 25.99	-	-	2	2	-	-	-	-	-	-
26.00 - 26.99	-	-	2	-	-	-	-	-	-	-
27.00 - 27.99	-	-	3	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	2	-	1	-	-	-	-
30.00 - 30.99	-	-	-	2	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>22</b>	<b>20</b>	<b>29</b>	<b>28</b>	<b>44</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>62</b>	<b>1</b>
Min. Length	10.94	2.68	16.22	15.87	0.00	21.46	14.96	18.90	10.24	8.90
Max. Length	14.76	9.69	27.76	30.31	17.72	29.69	15.04	22.05	15.75	8.90
Mean Length	13.01	6.43	23.57	21.97	14.45	24.79	15.00	20.43	13.32	8.90
# Measured	22	20	29	28	44	3	2	4	62	1
No Lengths for	0	0	0	0	0	0	0	0	0	0

**STANDARD LAKE SURVEY REPORT**  
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**Age Class Frequency Distribution**

Species and Gear (1)	Number of Fish (2)			Number of Fish in Year Class ('yy) and Age Class																
	Aged	Keyed	Unaged	'09	'08	'07	'06	'05	'04	'03	'02	'01	'00	'99	'98	'97	'96	'95	<'95	
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+	
<b>Channel Catfish</b>																				
GN	7	0	0	0	0	0	0	0	0	0	1	0	2	2	2	0	0	0	0	0

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

GN = Standard gill net sets

**(2) Notes:**

Number of Fish Aged: Fish that were aged from bony parts.

Number of Fish Keyed: Fish assigned an age with an age-length key or by expansion of mesh or station age distributions.

Number of Fish Unaged: Fish that were not aged and were not assigned an age.

**Other Species**

Gear Type (1)	Other Species (Gender) (2)	Total Num	Number Measured	Length (inches)			Number Weighed	Weight (pounds)		
				Min	Mean	Max		Min	Mean	Max
TN	Painted Turtle	18	0	N/A			0	N/A		
	Snapping Turtle	2	0	N/A			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.

**Discussion**

Sabre Lake's aging structures are cataloged and available if needed for future use. Staff and timing shortfalls did not leave enough room for fish aging.

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**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

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### **Status Of The Fishery**

Sabre Lake in Le Sueur County is a 263 acre lake located west of Kilkenny. A public access is located on the north side of the lake, next to the Cannon River inlet. The turn to the public access is located off Dodd Road/Le Sueur County Road 2/440th Street.

Sabre Lake was surveyed the week of June 15th, 2009 to monitor the fish community. Northern pike were the most abundant fish in the gill net catches at 6.7 fish per lift. Average northern pike weight was 3.6 pounds and average pike length was 24 inches. Pike ranged between 15 and 35 inches. Northern pike abundance has picked up since 2004 test netting, when pike averaged 2.2 fish per gill net. Pike have many prey options in Sabre Lake, including an abundance of white sucker (4.5 per gill net lift), yellow perch (4.7 per gill net lift), or young freshwater drum (sheepshead).

Walleye continue a low level of abundance in Sabre Lake. Walleye averaged 1.3 fish per lift. Better angling options for walleye exist in the area, as well as within the Cannon River chain of lakes.

Bluegills also hold a low level of abundance in Sabre Lake. Bluegill averaged 2.5 fish per trap net. A few large individuals are scattered throughout the lake; one bluegill measured 9.7 inches. No crappies were caught in the assessment. Crappie abundance has historically been low on this lake, but large (greater than 10 inches) individuals have been captured during netting assessments in the past thirty years.

Seven channel catfish were caught during the assessment. Size was large; channel catfish ranged between 26 and 32 inches with an average of 28 inches, a memorable fish by length-based stock indices. Channel catfish occur throughout the Cannon River chain of lakes.

White bass averaged 5.2 fish per gill net lift. White bass averaged 14 inches in length but fish up to 16 inches were netted. White Bass are found throughout the Cannon River chain of lakes but their abundance can fluctuate wildly due to inconsistent recruitment.

Yellow perch fit into the interquartile range for lakes within Sabre's classification (class 43). Perch averaged 4.7 fish per gill net lift. Average length was 8.2 inches and ranged from 6.2 to 9.3 inches.

Most of the total fish numbers and biomass netted in 2009 consisted of nongame underutilized species, including black bullhead, bowfin (dogfish), common carp, freshwater drum (sheepshead), highfin carpsucker, white sucker, and yellow bullhead. Many of these fish are well adapted to riverine environments, so a river-influenced lake like Sabre is a good fit for these species. This lake may be a good destination for "rough fish" niche anglers or, given its clear water, bowfishermen.

Anglers can help maintain or improve the quality of fishing by practicing selective harvest. Selective harvest allows for the harvest of smaller fish for table fare, but encourages release of medium- to large-sized fish. Releasing these fish can help maintain balance in the fish community in Sabre Lake and provide anglers the opportunity to catch more and larger fish in the future.

Shoreline areas on the land and into the shallow water provide essential habitat for fish and wildlife that live in or near Minnesota's lakes. Overdeveloped shorelines cannot support the fish, wildlife, and clean water that are associated with natural undeveloped lakes. Shoreline habitat consists of aquatic plants, woody plants, and natural lake bottom soils. Plants in the water and at the water's edge provide habitat, prevent erosion, and absorb excess nutrients. Shrubs, trees, and woody debris such as fallen trees or limbs provide good habitat both above and below the water and should be left in place. By leaving a buffer strip of natural vegetation along the shoreline, property owners can reduce erosion, help maintain water quality, and provide habitat and travel corridors for wildlife.

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**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 06/15/2009 FOR DOW NUMBER 40-0014-00**

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**Approval Dates And Notices**

Date Approved By Waterville Area Fisheries Supervisor: 04/23/2010

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



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Standard Lake Survey Report revision: 04/15/2010-RJE. Data Date: 04/23/2010 at 12:34 pm .