

Lake Name: Star
DOW Number: 56-0385-00

Survey Type: Targeted Survey
Survey ID Date: 07/16/2018

TARGETED SURVEY
Gill Netting targeting Northern Pike All Ages
Gill Netting targeting Walleye All Ages
Gill Netting targeting Yellow Perch All Ages
Lake Access Observation
Water Quality Measurement

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 22

DNR Sounding Map Number: B0231
Alternate Lake Class ID: N/A

Lake Location

Primary County: Otter Tail

Nearest Town: Dent

Legal Descriptions

Lake Center: Township - 135N Range - 41W Section - 11
PLS Section Lake Center: 13504111

All Legal Descriptions:

Otter Tail County: Township - 135N Range - 40W Sections - 6, 7, 18
Township - 135N Range - 41W (Seventeen various sections)
Township - 136N Range - 41W Sections - 34, 35, 36

Area Office

Area Name: Fergus Falls
Region Name: Northwest

ORG Code: F115
Region Number: 1

Lake Access

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 State Highway 108 along the north shoreline of the lake.
AC - 2	DNR	Open to Public use	Concrete	A state owned public access is located off of the township road along the east shoreline of the lake.

LAKE SURVEY REPORT
TARGETED SURVEY DATED 07/16/2018 FOR DOW NUMBER 56-0385-00

Lake Characteristics

Lake Area (planimetered acres): 4,721.00	GIS Shoreline Length (miles): 38.49
GIS Lake Area (acres): 4,485.87	Maximum Fetch (miles): 2.70
DOW Lake Area (acres): 4,809.00	Fetch Orientation (degrees): 67
Littoral Area (acres): 2,813.00	USGS Quad Map Number: L06d
Area in MN (acres): 4,454.01	USGS Quad 24K GIS Index: 2312
Maximum Depth (feet): 94.0	
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: From Star L
Watershed Number: 31
Watershed size (acres): 23,684

Surveys and Investigations

Initial Survey: 09/11/1961.
Re-Survey: 07/15/1991, 07/16/1982, 07/06/1973.
Population Assessment: 07/16/2012, 07/13/2009, 07/17/2006, 07/14/2003, 07/17/2000, 07/14/1997, 07/18/1994, 07/12/1988, 07/09/1985.
Special Assessment: 04/04/2006, 04/05/2004, 04/08/2002, 03/22/2000, 04/06/1998, 05/19/1997, 04/10/1996, 08/30/1995, 05/24/1994, 10/06/1993, 07/20/1987.
Creel Survey: 05/16/1987.
External Management Survey: 06/16/2008.
Targeted Survey: 07/16/2018, 05/21/2018, 07/10/2017, 07/13/2015.

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	07/13/2009	Normal	-4.00	Above or below Benchmark
	07/17/2006	Normal	-4.10	Above or below Benchmark
BM - 2	07/16/2012	Normal	-8.55	Above or below Benchmark
	07/13/2009	Normal	-6.80	Above or below Benchmark
GA - 1	07/13/2015	Normal	2.20	Direct Gauge Reading
	07/16/2012	Normal	1.70	Direct Gauge Reading
	07/13/2009	Normal	2.17	Direct Gauge Reading
	07/17/2006	Normal	2.04	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	-4.10	07/17/2006	-4.00	07/13/2009	0.10	-4.05	Above or below Benchmark (2)
BM - 2	-8.55	07/16/2012	-6.80	07/13/2009	1.75	-7.68	Above or below Benchmark (2)
GA - 1	2.04	07/17/2006	2.04	07/17/2006	0.00	2.04	Above or below Benchmark (1)
GA - 1	1.70	07/16/2012	2.20	07/13/2015	0.50	2.02	Direct Gauge Reading (3)

LAKE SURVEY REPORT
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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	07/16/2018	45.0	Surface	77.5	9.6
			3.0	77.4	9.6
			6.0	77.4	9.6
			9.0	77.4	9.6
			12.0	77.5	9.5
			15.0	77.4	9.5
			18.0	77.4	9.6
			21.0	77.4	9.3
			24.0	76.1	8.3
			27.0	64.4	3.8
			30.0	60.1	3.2
			33.0	55.8	2.3
			36.0	53.4	2.4
			39.0	50.0	2.4
			42.0	48.9	2.2

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	07/16/2018	Surface	9.8	N/A	N/A	Green	Algae

LAKE SURVEY REPORT
TARGETED SURVEY DATED 07/16/2018 FOR DOW NUMBER 56-0385-00

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 12

First Set Date: 07/16/2018

Last Lift Date: 07/20/2018

Target Species: All ages yellow perch, All ages northern pike, All ages walleye

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 22*		
				25%	50%	75%
BLB	Black Bullhead	3	0.25	0.46	1.63	4.11
BLC	Black Crappie	5	0.42	0.22	0.42	1.14
BLG	Bluegill	55	4.58	N/A	N/A	N/A
BRB	Brown Bullhead	20	1.67	0.25	0.50	1.62
CAP	Common Carp	1	0.08	0.13	0.30	0.46
LMB	Largemouth Bass	6	0.50	0.25	0.62	1.20
NOP	Northern Pike	103	8.58	3.00	5.00	7.89
PMK	Pumpkinseed	20	1.67	N/A	N/A	N/A
RKB	Rock Bass	25	2.08	1.00	2.93	6.63
TLC	Tullibee (Cisco)	3	0.25	0.50	1.56	5.20
WAE	Walleye	120	10.00	4.01	6.61	9.63
WTS	White Sucker	11	0.92	1.02	2.00	3.49
YEB	Yellow Bullhead	21	1.75	0.65	2.59	6.43
YEP	Yellow Perch	101	8.42	7.06	17.14	33.87
Total Fish/Set:			41.17	* 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 22*		
					25%	50%	75%
BLB	Black Bullhead	3.25	0.27	1.08	0.55	0.70	0.95
BLC	Black Crappie	3.74	0.31	0.75	0.24	0.38	0.55
BLG	Bluegill	21.84	1.82	0.40	N/A	N/A	N/A
BRB	Brown Bullhead	27.17	2.26	1.36	0.67	0.90	1.19
CAP	Common Carp	9.13	0.76	9.13	3.11	5.21	7.10
LMB	Largemouth Bass	7.85	0.65	1.31	0.55	0.77	1.05
NOP	Northern Pike	186.91	15.58	1.81	1.68	2.25	2.80
PMK	Pumpkinseed	6.13	0.51	0.31	N/A	N/A	N/A
RKB	Rock Bass	12.30	1.02	0.49	0.30	0.41	0.52
TLC	Tullibee (Cisco)	3.04	0.25	1.01	0.37	0.69	1.04
WAE	Walleye	143.49	11.96	1.20	1.12	1.43	1.90
WTS	White Sucker	22.51	1.88	2.05	1.52	1.89	2.28
YEB	Yellow Bullhead	20.01	1.67	0.95	0.62	0.75	0.95
YEP	Yellow Perch	11.85	0.99	0.12	0.12	0.15	0.21
Total Pounds Fish/Set:			39.94	* Quartiles for Mean Weight			

LAKE SURVEY REPORT
TARGETED SURVEY DATED 07/16/2018 FOR DOW NUMBER 56-0385-00

Length Frequency Distribution for GN

Standard gill net sets

(Field work conducted between 07/16/2018 and 07/20/2018)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BRB</u>	<u>CAP</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>TLC</u>	<u>WAE</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	-	-	-	-	-	-	-	1	1	-	-	-	-	6
5.50 - 5.99	-	-	-	-	-	-	-	2	1	-	-	-	-	21
6.00 - 6.49	-	2	-	-	-	-	-	3	-	-	-	-	-	37
6.50 - 6.99	-	-	7	-	-	-	-	2	1	-	-	-	-	26
7.00 - 7.49	-	-	6	-	-	-	-	6	2	-	1	-	-	6
7.50 - 7.99	-	-	18	-	-	-	-	4	3	-	-	-	-	3
8.00 - 8.49	-	-	17	-	-	-	-	2	2	-	1	-	-	1
8.50 - 8.99	-	-	6	-	-	-	-	-	4	-	2	1	-	1
9.00 - 9.49	-	-	1	-	-	-	-	-	7	-	5	-	-	-
9.50 - 9.99	-	-	-	-	-	-	-	-	4	-	2	-	2	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	-	7	1	1	-
10.50 - 10.99	-	-	-	-	-	-	-	-	-	-	9	-	5	-
11.00 - 11.49	-	-	-	1	-	1	-	-	-	-	2	-	2	-
11.50 - 11.99	-	1	-	-	-	1	-	-	-	-	8	-	2	-
12.00 - 12.99	3	2	-	3	-	3	-	-	-	-	11	-	4	-
13.00 - 13.99	-	-	-	6	-	-	1	-	-	1	6	-	4	-
14.00 - 14.99	-	-	-	9	-	-	1	-	-	2	14	1	1	-
15.00 - 15.99	-	-	-	1	-	-	2	-	-	-	18	-	-	-
16.00 - 16.99	-	-	-	-	-	1	5	-	-	-	7	1	-	-
17.00 - 17.99	-	-	-	-	-	-	21	-	-	-	8	1	-	-
18.00 - 18.99	-	-	-	-	-	-	20	-	-	-	5	4	-	-
19.00 - 19.99	-	-	-	-	-	-	19	-	-	-	5	2	-	-
20.00 - 20.99	-	-	-	-	-	-	6	-	-	-	5	-	-	-
21.00 - 21.99	-	-	-	-	-	-	6	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	5	-	-	-	1	-	-	-
23.00 - 23.99	-	-	-	-	-	-	1	-	-	-	1	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	5	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	1	-	4	-	-	-	1	-	-	-
28.00 - 28.99	-	-	-	-	-	-	2	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	2	-	-	-	1	-	-	-
30.00 - 30.99	-	-	-	-	-	-	2	-	-	-	-	-	-	-
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>BRB</u>	<u>CAP</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>RKB</u>	<u>TLC</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	3	5	55	20	1	6	103	20	25	3	120	11	21	101
Min. Length	12.13	6.38	6.54	11.10	27.17	11.02	13.86	5.20	5.20	13.82	7.40	8.62	9.65	5.20
Max. Length	12.83	12.76	9.09	15.39	27.17	16.81	31.93	8.27	9.88	14.37	29.02	19.61	14.33	8.90
Mean Length	12.39	9.92	7.87	13.77	27.17	12.78	20.26	6.95	8.41	14.12	14.47	16.31	11.85	6.35
# Measured	3	5	55	20	1	6	103	20	25	3	120	11	21	101
No Lengths for	0	0	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

LAKE SURVEY REPORT
TARGETED SURVEY DATED 07/16/2018 FOR DOW NUMBER 56-0385-00

Length At Capture with Last Incremental Length

(Body-Scale constant, all lengths, and all length increments in inches)

Species: Northern Pike
Body-Scale Constant: 2.09
Total Sample Size: 76

Length at Capture in 2018 for Each Age Class, with Incremental Lengths for 2018

Year Class	Age	Sample Size	Length At Capture			Standard Error	Length Increments	
			Average Length	Maximum Length	Minimum Length		Increment	Standard Error
2016	2	24	17.43	20.59	13.86	0.277	1.16	0.048
2015	3	24	19.61	25.31	14.80	0.440	1.00	0.052
2014	4	15	21.32	25.43	17.13	0.588	0.80	0.036
2013	5	5	26.96	28.11	25.71	0.485	0.74	0.046
2012	6	5	27.60	30.98	22.28	1.455	0.73	0.041
2011	7	2	29.21	29.72	28.70	0.512	0.84	0.036
2010	8	1	31.93	31.93	31.93	N/A	0.86	N/A

Species: Walleye
Body-Scale Constant: 1.10
Total Sample Size: 88

Length at Capture in 2018 for Each Age Class, with Incremental Lengths for 2018

Year Class	Age	Sample Size	Length At Capture			Standard Error	Length Increments	
			Average Length	Maximum Length	Minimum Length		Increment	Standard Error
2017	1	14	9.38	10.87	7.40	0.225	2.78	0.225
2016	2	30	11.87	14.02	10.28	0.200	1.87	0.082
2015	3	19	14.81	15.63	13.82	0.124	1.58	0.054
2014	4	7	16.41	17.95	15.31	0.409	1.16	0.045
2013	5	16	17.55	19.33	15.91	0.277	1.19	0.088
2012	6	1	18.82	18.82	18.82	N/A	0.93	N/A
2011	7	1	17.60	17.60	17.60	N/A	0.33	N/A

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Back-Calculated Lengths for Each Age Class and Average Annual Increments of Back-Calculated Lengths

Species: Northern Pike

Gear Type: Combined Gear Types (GN)

Class	Age	N	1	2	3	4	5	6	7	8
2016	2	24	11.23	16.27	-	-	-	-	-	-
			11.23	5.04	-	-	-	-	-	-
2015	3	24	10.65	15.58	18.61	-	-	-	-	-
			10.65	4.93	3.03	-	-	-	-	-
2014	4	15	10.52	15.31	18.52	20.52	-	-	-	-
			10.52	4.79	3.21	2.00	-	-	-	-
2013	5	5	11.84	17.65	21.49	24.34	26.22	-	-	-
			11.84	5.81	3.84	2.85	1.88	-	-	-
2012	6	5	11.83	17.26	20.70	23.41	25.47	26.87	-	-
			11.83	5.44	3.44	2.71	2.06	1.40	-	-
2011	7	2	11.18	15.17	18.24	20.95	24.07	26.88	28.37	-
			11.18	3.99	3.07	2.72	3.12	2.82	1.49	-
2010	8	1	11.39	16.96	20.22	22.53	24.73	27.23	29.43	31.07
			11.39	5.57	3.26	2.31	2.20	2.50	2.20	1.64
Mean Length			10.99	16.00	19.08	21.82	25.49	26.92	28.72	31.07
Mean Increment			10.99	5.01	3.20	2.34	2.17	1.89	1.73	1.64
Total N			76	76	52	28	13	8	3	1

Species: Walleye

Gear Type: Combined Gear Types (GN)

Class	Age	N	1	2	3	4	5	6	7
2017	1	14	6.59	-	-	-	-	-	-
			6.59	-	-	-	-	-	-
2016	2	30	6.31	9.99	-	-	-	-	-
			6.31	3.68	-	-	-	-	-
2015	3	19	6.48	10.25	13.23	-	-	-	-
			6.48	3.77	2.98	-	-	-	-
2014	4	7	5.47	9.20	12.34	15.25	-	-	-
			5.47	3.73	3.14	2.91	-	-	-
2013	5	16	5.54	8.96	11.66	14.32	16.36	-	-
			5.54	3.41	2.70	2.66	2.04	-	-
2012	6	1	6.74	9.36	11.53	15.07	16.93	17.89	-
			6.74	2.62	2.17	3.54	1.86	0.96	-
2011	7	1	5.86	9.90	11.68	13.38	15.43	16.71	17.27
			5.86	4.04	1.78	1.70	2.05	1.28	0.56
Mean Length			6.19	9.75	12.44	14.57	16.34	17.30	17.27
Mean Increment			6.19	3.64	2.86	2.73	2.03	1.12	0.56
Total N			88	74	44	25	18	2	1

LAKE SURVEY REPORT
TARGETED SURVEY DATED 07/16/2018 FOR DOW NUMBER 56-0385-00

Age Class Frequency Distribution

Species & SS Type (1)	Number of Fish (2)			Number of Fish in Year Class ('yy) and Age Class															
	Aged	Keyed	Unaged	'18 0	'17 1	'16 2	'15 3	'14 4	'13 5	'12 6	'11 7	'10 8	'09 9	'08 10	'07 11	'06 12	'05 13	'04 14	<'04 15+
Northern Pike																			
GN	76	27	0	0	0	35	35	19	5	6	2	1	0	0	0	0	0	0	0
Walleye																			
GN	97	21	2	0	15	39	25	9	22	1	2	3	0	0	0	1	0	0	1

(1) Key to Sampling Station (SS) Type 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.

LAKE SURVEY REPORT
TARGETED SURVEY DATED 07/16/2018 FOR DOW NUMBER 56-0385-00

Discussion

A target survey (special gillnetting) was conducted to analyze the Walleye, Northern Pike, and Yellow Perch populations of Star Lake. Twelve gill nets were utilized to obtain a standardized fish sample. The initial survey of Star Lake was conducted in 1961 and fifteen surveys have been conducted since then. Star Lake is included in lake class 22 of the MN DNR lake classification scheme.

Northern Pike gill net catch per unit effort (CPUE) was 8.6 per net, which exceeds the third quartile of the normal range for lake class 22 (interquartile range = 3.0 - 7.9). Historically, Northern Pike gill net CPUE has ranged from 3.8 to 12.6 per net. Age and length data from recent surveys indicate that Northern Pike recruitment is consistent and that total annual mortality (A) is low to moderate. Pike ranged in length from 13.9 to 31.9 inches with a mean length and weight of 20.3 inches and 1.8 pounds. Eleven percent of the pike were within the 22.0 to 26.0-inch protected slot limit while 11% exceeded 26.0 inches. Northern Pike attain a mean length of 25.5 inches at age-V. Growth rate estimates exceed mean Northern Pike growth rates for class 22 lakes in the Fergus Falls Management Area.

Yellow Perch gill net CPUE was 8.4 per net, which slightly exceeds the first quartile (interquartile range = 7.1 - 33.9). This is the lowest Yellow Perch gill net CPUE recorded for this lake. Historically, Yellow Perch gill net CPUE has fluctuated, ranging from 8.5 to 47.5 per net.

Walleye gill net CPUE was 10.0 per net, which is equivalent to the third quartile (interquartile range = 4.0 - 9.6). Since the 1973 lake survey, the general trend has been an increase in Walleye gill net CPUE. Age data from recent surveys indicate that Walleye natural reproduction and recruitment can be substantial in some years; however, it historically has not occurred consistently. The strongest year classes have consistently corresponded to years of fry stocking/natural reproduction which suggests that fry stocking is supplementing natural reproduction by increasing abundance or by offsetting weak natural year classes. Walleyes ranged in length from 7.4 to 29.0 inches with a mean length and weight of 14.5 inches and 1.2 pounds. Walleyes attain a mean length of 14.6 inches at age-IV. Growth rate estimates are equivalent to mean Walleye growth rates for class 22 lakes in the Fergus Falls Management Area.

Status Of The Fishery

Star Lake is a 4,721-acre mesotrophic (moderately fertile) lake located in north-central Otter Tail County approximately four miles west of Dent, MN. Star Lake is connected to Dead and Round Lakes via non-navigable streams. The immediate watershed is composed primarily of agricultural land interspersed with hardwood woodlots. Extensive marsh areas are located in the south bay and the west arm of the lake. The maximum depth is 94 feet; however, 59% of the lake is 15 feet or less in depth. The secchi disk reading was 9.8 feet. Previous secchi disk readings have ranged from 5.8 to 14.0 feet.

Development is scattered around the entire shoreline of Star Lake. Homes, cottages, and resorts compose the majority of the development. DNR owned public water accesses are located along the north and east shorelines. Stands of hardstem bulrush, wild rice, and common cattail are scattered along the shoreline of the entire lake; however, the largest stands are located in the south bay and the west arm. Emergent aquatic plants provide valuable fish and wildlife habitat, and are critical for maintaining good water quality. They protect shorelines and lake bottoms, and can actually absorb and break down polluting chemicals. Emergent plants provide spawning areas for fish such as Northern Pike, Largemouth Bass, and panfish. They also serve as important nursery areas for all species of fish. Because of their ecological value, emergent plants may not be removed without a DNR permit. To maintain the excellent water quality and angling that this lake has to offer, it is imperative to preserve the quality of the aquatic habitat.

Walleye and Northern Pike are the dominant gamefish species in the fish community of Star Lake.

The long-term trend has been an increase in Walleye abundance. Walleyes ranged in length from 7.4 to 29.0 inches with an average length and weight of 14.5 inches and 1.2 pounds. Walleyes attain an average length of 14.6 inches at four years of age.

Northern Pike abundance has remained high in recent surveys. Age and length data indicate that Northern Pike reproduction is consistently good. Northern Pike ranged in length from 13.9 to 31.9 inches with an average length and weight of 20.3 inches and 1.8 pounds. Pike attain an average length of 25.5 inches at five years of age.

Anglers can maintain the quality of angling by practicing selective harvest. Selective harvest encourages the release of medium to large size fish while allowing the harvest of more abundant smaller fish for table fare. Releasing the medium to large fish will ensure that the lake has enough spawning age fish on an annual basis and will provide anglers with more opportunities to catch large fish in the future.

Star Lake is not listed as an infested water. Aquatic invasive species are threatening Minnesota waters. Aquatic invasive species can potentially harm water quality, water recreation, aquatic habitat, native species, and fish populations. Anglers can help prevent the introduction and spread of invasive species by following watercraft transportation laws.

Approval Dates And Notices

Date Approved By Fergus Falls Area Fisheries Supervisor: 03/12/2019

Date Approved By Northwest Region Fisheries Manager: _____



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