

# Minnesota Department of Natural Resources

### **Fisheries Management**



### STANDARD LAKE SURVEY REPORT

**DRAFT VERSION** - PRELIMINARY DATA (AS OF 06/20/2014)

Lake Name: Yankton **Survey Type: Population Assessment** 

DOW Number: 42-0047-00 Survey ID Date: 06/16/2014

Lake Identification

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

Lake Location

Primary County: Lyon Nearest Town: Balaton

**Legal Descriptions** 

Section - 14 Lake Center: Township - 109N Range - 42W

PLS Section Lake Center: 10904214

**All Legal Descriptions:** 

Lyon County: Township - 109N Range - 42W Sections - 11, 13, 14, 23

Area Office

Area Name: Windom ORG Code: F418 Region Name: Southern Region Number: 4

**Lake Access** 

(Information based on Re-Survey dated 06/14/1994)

| Station ID | <u>Ownership</u> | Public Use         | Type     | Location / Comments                          |
|------------|------------------|--------------------|----------|--|
| AC - 1     | DNR              | Open to Public use | Concrete | STATE OWNED PUBLIC BOAT ACCESS ON SOUTH END. |
|            |                  |                    |          |  |

(Data excludes records where public use is not designated or is designated "No Public Use")

**Lake Characteristics** 

Lake Area (planimetered acres): 387.00 GIS Shoreline Length (miles): 4.75 GIS Lake Area (acres): 401.33 Maximum Fetch (miles): 1.21 DOW Lake Area (acres): 382.00 Fetch Orientation (degrees): 45 Littoral Area (acres): 401.33 USGS Quad Map Number: V06a Area in MN (acres): 401.33 USGS Quad 24K GIS Index: 4212

Maximum Depth (feet): 8.0 Mean Depth (feet): N/A

**Watershed Characteristics** 

**Major Watershed Minor Watershed** 

Name: From L Yankton Name: Des Moines-Headwaters Watershed Number: 51 Watershed Number:

798,595 3,643 Watershed size (acres): Watershed size (acres):



### **Surveys And Investigations**

Initial Survey: 06/10/1985.

**Re-Survey:** 06/19/2006, 06/14/1994.

**Population Assessment:** <u>06/16/2014</u>, 06/21/2010, 06/17/2002, 06/15/1998, 06/11/1990.

Special Assessment: 03/29/1995.

**Dissolved Oxygen Check:** 12/31/2013, 02/06/2013, 01/03/2013, 01/11/2012, 12/28/2010, 01/04/2010.

#### **Current Water Level**

| Station ID | Date       | Level | Reading (feet) | Reading Type             |
|------------|------------|-------|----------------|--------------------------|
| BM - 1     | 06/17/2014 | High  | -0.20          | Above or below Benchmark |

### **Benchmark and Gauge Descriptions / Locations**

| Station ID | Location Description  |
|------------|---|
| BM - 1     | Top of west wing on lake side of cement walkway that crosses outlet 5 feet from the lake. |

#### Water Level History - Readings

| Station ID | Date       | Level  | Reading (feet) | Reading Type             |
|------------|------------|--------|----------------|--------------------------|
| BM - 1     | 06/17/2014 | High   | -0.20          | Above or below Benchmark |
|            | 06/24/2010 | High   | -0.75          | Above or below Benchmark |
|            | 06/19/2006 | Normal | -1.20          | Above or below Benchmark |
| GA - 1     | 06/24/2010 | High   | 12.10          | Direct Gauge Reading     |
|            | 06/19/2006 | Normal | 2.58           | Direct Gauge Reading     |

### **Water Level History - Station Summary**

|            | Minimum Level |            | Maximum Level |            | Range  | Average      | Reading Type                 |  |
|------------|---------------|------------|---------------|------------|--------|--------------|------------------------------|--|
| Station ID | Feet          | Date       | Feet          | Date       | (feet) | Level (feet) | (and number of readings)     |  |
| BM - 1     | -1.20         | 06/19/2006 | -0.20         | 06/17/2014 | 1.00   | -0.72        | Above or below Benchmark (3) |  |
| GA - 1     | 2.58          | 06/19/2006 | 12.10         | 06/24/2010 | 9.52   | 7.34         | Direct Gauge Reading (2)     |  |

#### Dissolved Oxygen And Temperature Profile Of Lake Water

| Station ID | Sampling<br>Date      | Bottom Depth<br>(Feet) | Sample<br>Depth (Feet) | Water<br>Temperature (°F) | Dissolved Oxygen (ppm) |
|------------|-----------------------|------------------------|------------------------|---------------------------|------------------------|
| WQ - 1     | NQ - 1 06/17/2014 N/A |                        | Surface                | 67.1                      | 8.5                    |
|            |                       |                        | 2.0                    | 66.9                      | 8.4                    |
|            |                       |                        | 4.0                    | 66.7                      | 8.4                    |
|            |                       |                        | 6.0                    | 66.6                      | 8.0                    |
|            |                       |                        | 8.0                    | 66.2                      | 7.2                    |
|            |                       |                        | 8.8                    | 66.2                      | 7.1                    |

#### **Field Measurements Of Water Quality**

|            |            |              | Secchi |       |            |             |             |  |
|------------|------------|--------------|--------|-------|------------|-------------|-------------|--|
| Otation ID | Sampling   | Sample       | Depth  | Field | Alkalinity | W-4 0-l     | 0-10        |  |
| Station ID | Date       | Depth (Feet) | (Feet) | рН    | (ppm)      | Water Color | Color Cause |  |
| WQ - 1     | 06/17/2014 | Surface      | 0.8    | 8.24  | 220        | Brown Grn   | Algae       |  |

### Net Catch Summary by Numbers for **GN**

### Standard gill net sets

Number of Sets: 3

First Set Date: 06/16/2014 Last Lift Date: 06/19/2014 Target Species: N/A

### Quartiles for Lake Class 43\*

| Abbr | Species          | Total Fish      | Number Per Set | 25%         | 50%            | 75%    |
|------|------------------|-----------------|----------------|-------------|----------------|--------|
| BIB  | Bigmouth Buffalo | 33              | 11.00          | 0.75        | 2.58           | 6.96   |
| BLB  | Black Bullhead   | 311             | 103.67         | 30.34       | 75.58          | 150.62 |
| BLC  | Black Crappie    | 4               | 1.33           | 1.41        | 3.71           | 13.75  |
| CAP  | Common Carp      | 17              | 5.67           | 1.00        | 3.33           | 13.75  |
| NOP  | Northern Pike    | 13              | 4.33           | 1.08        | 3.00           | 8.00   |
| WAE  | Walleye          | 25              | 8.33           | 2.28        | 6.83           | 18.06  |
| WTS  | White Sucker     | 9               | 3.00           | 0.81        | 2.33           | 6.50   |
| YEB  | Yellow Bullhead  | 1               | 0.33           | 0.50        | 1.50           | 3.50   |
| YEP  | Yellow Perch     | 13              | 4.33           | 2.65        | 8.00           | 25.00  |
|      |                  | Total Fish/Set: | 142.00         | * Quartiles | s for Number P | er Set |

### Net Catch Summary by Weight for **GN**

### Standard gill net sets

|      |                  | Total Weight           | Pounds  | Mean   | Quartiles | for Lake Clas  | s 43* |
|------|------------------|------------------------|---------|--------|-----------|----------------|-------|
| Abbr | Species          | (Pounds)               | Per Set | Weight | 25%       | 50%            | 75%   |
| BIB  | Bigmouth Buffalo | 8.52                   | 2.84    | 0.26   | N/A       | N/A            | N/A   |
| BLB  | Black Bullhead   | 66.60                  | 22.20   | 0.21   | 0.17      | 0.26           | 0.39  |
| BLC  | Black Crappie    | 0.19                   | 0.06    | 0.05   | 0.16      | 0.25           | 0.35  |
| CAP  | Common Carp      | 59.15                  | 19.72   | 3.48   | 0.81      | 1.98           | 3.70  |
| NOP  | Northern Pike    | 32.84                  | 10.95   | 2.53   | 1.82      | 2.50           | 3.35  |
| WAE  | Walleye          | 75.69                  | 25.23   | 3.03   | 1.01      | 1.53           | 2.30  |
| WTS  | White Sucker     | 24.97                  | 8.32    | 2.77   | 0.93      | 1.58           | 2.02  |
| YEB  | Yellow Bullhead  | 0.32                   | 0.11    | 0.32   | 0.31      | 0.53           | 0.73  |
| YEP  | Yellow Perch     | 1.52                   | 0.51    | 0.12   | 0.13      | 0.21           | 0.31  |
|      |                  | Total Pounds Fish/Set: | 89.93   |        | * Quarti  | les for Mean W | eight |



### Net Catch Summary by Numbers for TN

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

Number of Sets: 9

First Set Date: 06/16/2014 Last Lift Date: 06/19/2014 Target Species: N/A

### Quartiles for Lake Class 43\*

| Abbr | Species          | Total Fish      | Total Fish Number Per Set |             | 50%            | 75%    |
|------|------------------|-----------------|---------------------------|-------------|----------------|--------|
| BIB  | Bigmouth Buffalo | 1               | 0.11                      | 0.17        | 0.38           | 1.04   |
| BLB  | Black Bullhead   | 128             | 14.22                     | 11.50       | 42.00          | 132.61 |
| BLC  | Black Crappie    | 17              | 1.89                      | 1.17        | 4.88           | 20.50  |
| CAP  | Common Carp      | 12              | 1.33                      | 1.00        | 2.44           | 5.51   |
| NOP  | Northern Pike    | 4               | 0.44                      | N/A         | N/A            | N/A    |
| WAE  | Walleye          | 2               | 0.22                      | 0.50        | 1.33           | 2.95   |
| WTS  | White Sucker     | 1               | 0.11                      | 0.34        | 0.88           | 2.58   |
| YEB  | Yellow Bullhead  | 1               | 0.11                      | 0.50        | 1.13           | 2.50   |
| YEP  | Yellow Perch     | 4               | 0.44                      | 0.33        | 1.37           | 3.76   |
|      |                  | Total Fish/Set: | 18.89                     | * Quartiles | s for Number P | er Set |

### Net Catch Summary by Weight for TN

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

|      |                  | Total Weight           | Pounds  | Mean   | Quartiles | for Lake Clas  | s 43* |
|------|------------------|------------------------|---------|--------|-----------|----------------|-------|
| Abbr | Species          | (Pounds)               | Per Set | Weight | 25%       | 50%            | 75%   |
| BIB  | Bigmouth Buffalo | 8.88                   | 0.99    | 8.88   | 2.56      | 3.75           | 5.83  |
| BLB  | Black Bullhead   | 42.50                  | 4.72    | 0.33   | 0.18      | 0.28           | 0.40  |
| BLC  | Black Crappie    | 10.17                  | 1.13    | 0.60   | 0.22      | 0.34           | 0.50  |
| CAP  | Common Carp      | 91.18                  | 10.13   | 7.60   | 1.42      | 2.92           | 4.58  |
| NOP  | Northern Pike    | 15.69                  | 1.74    | 3.92   | N/A       | N/A            | N/A   |
| WAE  | Walleye          | 4.30                   | 0.48    | 2.15   | 0.82      | 1.44           | 2.28  |
| WTS  | White Sucker     | 2.87                   | 0.32    | 2.87   | 1.05      | 1.47           | 2.04  |
| YEB  | Yellow Bullhead  | 0.83                   | 0.09    | 0.83   | 0.31      | 0.48           | 0.67  |
| YEP  | Yellow Perch     | 0.32                   | 0.04    | 0.08   | 0.11      | 0.18           | 0.30  |
|      |                  | Total Pounds Fish/Set: | 19.64   |        | * Quarti  | les for Mean W | eight |

### Length Frequency Distribution For **GN**

### Standard gill net sets

(Field work conducted between 06/16/2014 and 06/19/2014)

|                                | BIB  | BLB   | BLC  | CAP   | NOP   | WAE   | <u>wts</u> | YEB  | YEP        |
|--------------------------------|------|-------|------|-------|-------|-------|------------|------|------------|
| < 3.00                         | -    | -     | -    | -     | -     | -     | -          | -    | -          |
| 3.00 - 3.49                    | -    | -     | -    | -     | -     | -     | -          | -    | -          |
| 3.50 - 3.99                    | -    | -     | -    | -     | -     | -     | -          | -    | -          |
| 4.00 - 4.49                    | -    | -     | 3    | -     | -     | -     | -          | -    | -          |
| 4.50 - 4.99                    | -    | 2     | 1    | -     | -     | -     | -          | -    | -          |
| 5.00 - 5.49                    | -    | 8     | -    | -     | -     | -     | -          | -    | 4          |
| 5.50 - 5.99                    | -    | 9     | -    | -     | -     | -     | -          | -    | 8          |
| 6.00 - 6.49                    | -    | 18    | -    | -     | -     | -     | -          | -    | -          |
| 6.50 - 6.99                    | 4    | 69    | -    | -     | -     | -     | -          | -    | -          |
| 7.00 - 7.49                    | 18   | 107   | _    | _     | _     | _     | -          | _    | _          |
| 7.50 - 7.99                    | 7    | 68    | _    | _     | _     | 1     | -          | _    | _          |
| 8.00 - 8.49                    | 4    | 12    | _    | 1     | _     | 1     | _          | _    | _          |
| 8.50 - 8.99                    | _    | 5     | _    | 2     | _     | _     | -          | 1    | _          |
| 9.00 - 9.49                    | _    | 1     | _    | 3     | _     | _     | _          | _    | _          |
| 9.50 - 9.99                    | _    | 4     | _    | 3     | _     | _     | _          | _    | _          |
| 10.00 - 10.49                  | _    | _     | _    | 1     | _     | _     | _          | _    | 1          |
| 10.50 - 10.99                  | _    | 9     | _    | _     | _     | _     | _          | _    | _          |
| 11.00 - 11.49                  | _    | -     | _    | _     | _     | _     | _          | _    | _          |
| 11.50 - 11.99                  | _    | _     | _    | _     | _     | _     | _          | _    | _          |
| 12.00 - 12.99                  | _    | _     | _    | _     | _     | 4     | _          | _    | _          |
| 13.00 - 13.99                  | _    | _     | _    | _     | _     | 1     | _          | _    | _          |
| 14.00 - 14.99                  | _    | _     | _    | _     | _     | 1     | _          | _    | _          |
| 15.00 - 15.99                  | _    | _     | _    | _     | _     | 1     | _          | _    | _          |
| 16.00 - 16.99                  | _    | _     | _    | 1     | 1     | 1     | 2          | _    | _          |
| 17.00 - 17.99                  | _    | _     | _    |       |       | 2     | 3          | _    | _          |
| 18.00 - 18.99                  | _    | _     | _    | _     | 2     | -     | 4          | _    | _          |
| 19.00 - 19.99                  | _    | _     | _    | _     | 4     | 1     | _          | _    | _          |
| 20.00 - 20.99                  | _    | _     | _    | _     | 2     | 1     | _          | _    | _          |
| 21.00 - 21.99                  | _    | _     | _    | _     | -     | 3     | _          | _    | _          |
| 22.00 - 22.99                  | _    | _     | _    | _     | 1     | 2     | _          | _    | _          |
| 23.00 - 23.99                  | _    | _     | _    | 1     |       | 2     | _          | _    | _          |
| 24.00 - 24.99                  | _    | _     | _    | 1     | _     | -     | _          | _    | _          |
| 25.00 - 25.99                  | _    | _     | _    | 1     | 2     | 1     | _          | _    | _          |
| 26.00 - 26.99<br>26.00 - 26.99 | _    | _     | _    |       | _     | 2     | _          | _    | _          |
| 27.00 - 26.99<br>27.00 - 27.99 | _    | _     | _    | _     | _     | 1     | _          | _    | _          |
| 28.00 - 27.99<br>28.00 - 28.99 | -    | -     | -    | 1     | -     | '     | -          | -    | -          |
| 29.00 - 26.99<br>29.00 - 29.99 | -    | -     | -    | 2     | -     | -     | -          | -    | -          |
|                                | -    | -     | -    | _     | 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                      |      |       |      |       |       |       |            |      |            |
|                                | BIB  | BLB   | BLC  | CAP   | NOP   | WAE   | <u>wts</u> | YEB  | <u>YEP</u> |
| Total                          | 33   | 312   | 4    | 17    | 13    | 25    | 9          | 1    | 13         |
| Min. Length                    | 6.54 | 4.65  | 4.02 | 8.03  | 16.38 | 7.83  | 16.97      | 8.74 | 5.08       |
| Max. Length                    | 8.35 | 10.75 | 4.80 | 29.88 | 30.47 | 27.56 | 18.74      | 8.74 | 10.39      |
| Mean Length                    | 7.41 | 7.08  | 4.37 | 15.95 | 21.30 | 18.59 | 17.74      | 8.74 | 5.92       |
| # Measured                     | 33   | 138   | 3    | 15.95 | 13    | 25    | 9          | 1    | 12         |
|                                |      |       |      |       |       |       |            |      |            |
| No Lengths for                 | 0    | 173   | 1    | 0     | 0     | 0     | 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 06/16/2014 and 06/19/2014)

|                                | BIB   | BLB   | BLC   | CAP   | NOP      | WAE   | WTS   | <u>YEB</u> | <u>YEP</u> |
|--------------------------------|-------|-------|-------|-------|----------|-------|-------|------------|------------|
| < 3.00                         | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 3.00 - 3.49                    | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 3.50 - 3.99                    | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 4.00 - 4.49                    | -     | -     | 3     | -     | -        | -     | -     | -          | -          |
| 4.50 - 4.99                    | -     | 1     | 1     | -     | -        | -     | -     | -          | -          |
| 5.00 - 5.49                    | -     | -     | 1     | -     | -        | -     | -     | -          | 3          |
| 5.50 - 5.99                    | -     | 1     | -     | -     | -        | -     | -     | -          | 1          |
| 6.00 - 6.49                    | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 6.50 - 6.99                    | -     | 7     | -     | -     | -        | -     | -     | -          | -          |
| 7.00 - 7.49                    | -     | 20    | -     | -     | -        | -     | -     | -          | -          |
| 7.50 - 7.99                    | -     | 36    | -     | -     | -        | -     | -     | -          | -          |
| 8.00 - 8.49                    | -     | 26    | -     | -     | -        | -     | -     | -          | -          |
| 8.50 - 8.99                    | -     | 6     | -     | -     | -        | -     | -     | -          | -          |
| 9.00 - 9.49                    | -     | 2     | -     | -     | -        | -     | -     | -          | -          |
| 9.50 - 9.99                    | _     | 7     | _     | _     | _        | _     | _     | -          | _          |
| 10.00 - 10.49                  | _     | 10    | 1     | _     | _        | _     | _     | -          | -          |
| 10.50 - 10.99                  | _     | 9     | 5     | _     | _        | _     | _     | 1          | _          |
| 11.00 - 11.49                  | _     | 2     | 2     | _     | _        | _     | _     | _          | _          |
| 11.50 - 11.99                  | _     | _     | 2     | _     | _        | _     | _     | _          | _          |
| 12.00 - 12.99                  | _     | _     | 2     | _     | _        | _     | _     | _          | _          |
| 13.00 - 13.99                  | _     | _     | _     | _     | _        | _     | _     | _          | _          |
| 14.00 - 14.99                  | _     | _     | _     | _     | _        | _     | _     | _          | _          |
| 15.00 - 15.99                  | _     | _     | _     | _     | _        | _     | _     | _          | _          |
| 16.00 - 16.99                  | _     | _     | _     | _     | _        | _     | _     | _          | _          |
| 17.00 - 17.99                  | _     | _     | _     | _     | _        | _     | 1     | _          | _          |
| 18.00 - 18.99                  | _     | _     | _     | 1     | _        | 1     |       | _          | _          |
| 19.00 - 19.99                  | _     | _     | _     |       | 1        |       | _     | _          | _          |
| 20.00 - 20.99                  | _     | _     | _     | 2     | 1        | _     | _     | _          | _          |
| 21.00 - 21.99                  | _     | _     | _     | 1     | <u>'</u> | _     | _     | _          |            |
| 22.00 - 22.99                  | _     | _     | _     | -     | _        | _     | _     | _          |            |
| 23.00 - 23.99                  |       |       | _     |       |          |       |       |            |            |
| 24.00 - 24.99                  | 1     | _     | _     | 2     | _        | _     | _     | _          | _          |
| 25.00 - 25.99                  |       | _     |       | _     | _        | _     | _     | _          | _          |
| 26.00 - 26.99<br>26.00 - 26.99 | _     | _     | _     | _     | _        | _     | _     | _          | _          |
| 27.00 - 27.99<br>27.00 - 27.99 | _     | _     | _     | 1     | _        | _     | _     | _          | _          |
|                                | -     | -     | _     | 4     | -        | -     | -     | -          | _          |
| 28.00 - 28.99                  | -     | -     | -     | 1     | 1        | -     | -     | -          | -          |
| 29.00 - 29.99                  | -     | -     | -     | ı     | 1        | -     | -     | -          | -          |
| 30.00 - 30.99                  | -     | -     | -     | -     | 1        | -     | -     | -          | -          |
| 31.00 - 31.99                  | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 32.00 - 32.99                  | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 33.00 - 33.99                  | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 34.00 - 34.99                  | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| 35.00 - 35.99                  | -     | -     | -     | -     | -        | -     | -     | -          | -          |
| = > 36.00                      |       |       | -     | -     |          | -     |       |            |            |
|                                | BIB   | BLB   | BLC   | CAP   | NOP      | WAE   | WTS   | YEB        | <u>YEP</u> |
| Total                          | 1     | 127   | 17    | 12    | 4        | 1     | 1     | 1          | 4          |
| Min. Length                    | 24.41 | 4.96  | 4.06  | 18.43 | 19.88    | 18.66 | 17.60 | 10.94      | 5.28       |
| Max. Length                    | 24.41 | 11.30 | 12.60 | 29.21 | 30.51    | 18.66 | 17.60 | 10.94      | 5.87       |
| Mean Length                    | 24.41 | 8.33  | 9.18  | 25.04 | 24.99    | 18.66 | 17.60 | 10.94      | 5.49       |
| -                              | 24.41 | 126   | 9.10  | 12    |          |       |       |            |            |
| # Measured                     |       |       |       |       | 4        | 1     | 1     | 1          | 3          |
| No Lengths for                 | 0     | 2     | 0     | 0     | 0        | 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



### Other Species

| Gear     |                            | Total | Number   | Length (inches)  | Number  | Weight (pounds)  |   |
|----------|----------------------------|-------|----------|------------------|---------|------------------|---|
| Type (1) | Other Species (Gender) (2) | Num   | Measured | Min - Mean - Max | Weighed | Min - Mean - Max | _ |
| TN       | Snapping Turtle            | 1     | 1        | 12.60            | 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 Standard Lake Survey Report contains preliminary data (as of 06/20/2014), 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.

#### REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Yankton Survey Type: Population Assessment

DOW Number: 42-0047-00 Survey ID Date: 06/16/2014

Survey Status: Field Work Complete

The following 18 (of 31) report components are not included in this 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 Observations<sup>2</sup>
- 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. Water Quality (Winter Observations) (added to revision 01/21/2010)
- <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 Standard 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 06/20/2014 may not be reflected in the Distribution tables until after 12:30 pm on 06/20/2014.