

# Lake Conservation Notes

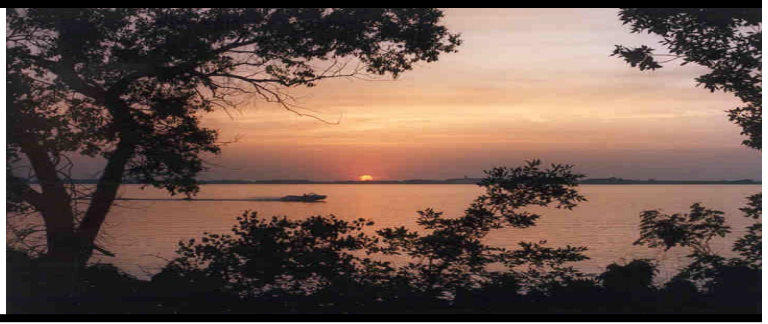
## Northeast Glacial Lakes Watershed Project

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## Enemy Swim Lake Elevations 1933—2021

|                |               |                |               |                |                  |
|----------------|---------------|----------------|---------------|----------------|------------------|
| 1933 August    | 1843.0        | 1955 May       | 1852.1        | 1990 September | 1850.7           |
| 1934 July      | 1841.7        | 1956 May       | 1851.3        | 1991 May       | 1850.7           |
| 1934 August    | 1841.1        | 1956 November  | 1849.9        | 1991 October   | 1852.1           |
| 1935 October   | 1840.1        | 1957 September | 1850.5        | 1992 April     | 1852.4           |
| 1936 April     | 1840.2        | 1960 April     | 1849.1        | 1992 September | 1852.0           |
| 1936 November  | 1838.1        | 1961 June      | 1847.9        | 1993 May       | 1853.4           |
| 1937 May       | 1841.9        | 1961 December  | 1846.9        | 1993 September | <b>1854.8</b>    |
| 1937 October   | 1840.9        | 1962 June      | 1849.7        | 1994 May       | <b>1855.1</b>    |
| 1938 June      | 1841.1        | 1962 December  | 1850.8        | 1994 September | <b>1853.9</b>    |
| 1938 October   | 1840.2        | 1963 May       | 1851.1        | 1995 May       | <b>1854.7</b>    |
| 1939 May       | 1841.5        | 1964 May       | 1851.7        | 1995 October   | <b>1853.8</b>    |
| 1939 November  | 1839.6        | 1966 May       | 1852.3        | 1996 May       | <b>1854.6</b>    |
| 1940 May       | 1840.3        | 1966 November  | 1851.3        | 1996 June      | <b>1854.6</b>    |
| 1940 October   | 1838.0*       | 1967 May       | 1852.0        | 1996 October   | 1853.4           |
| 1941 June      | 1840.4        | 1968 May       | 1850.4        | 1997 April     | <b>1856.27**</b> |
| 1941 November  | 1840.2        | 1968 November  | 1849.6        | 1997 October   | 1853.32          |
| 1942 May       | 1841.5        | 1969 May       | 1852.5        | 1998 May       | <b>1854.85</b>   |
| 1942 November  | 1840.5        | 1969 November  | 1851.4        | 1998 September | 1853.43          |
| 1943 June      | 1845.8        | 1970 May       | 1853.2        | 1999 June      | <b>1854.16</b>   |
| 1943 November  | 1845.4        | 1970 December  | 1851.0        | 1999 November  | 1853.32          |
| 1944 July      | 1846.7        | 1975 May       | 1852.5        | 2000 May       | <b>1853.72</b>   |
| 1944 November  | 1846.9        | 1976 November  | 1847.2        | 2000 October   | 1852.46          |
| 1945 May       | 1848.1        | 1982 July      | 1851.7        | 2001 May       | <b>1854.72</b>   |
| 1945 October   | 1851.4        | 1982 October   | 1851.2        | 2001 August    | 1853.26          |
| 1946 May       | 1850.0        | 1983 May       | 1851.4        | 2002 April     | 1853.6           |
| 1946 October   | 1849.5        | 1983 October   | 1850.2        | 2002 October   | 1852.84          |
| 1947 May       | 1851.9        | 1984 June      | 1851.9        | 2003 April     | 1853.2           |
| 1948 May       | 1852.3        | 1984 September | 1851.2        | 2003 September | 1852.6           |
| 1949 May       | 1849.4        | 1985 May       | 1852.3        | 2004 May       | 1852.52          |
| 1949 November  | 1849.5        | 1985 October   | 1851.5        | 2004 September | 1852.4           |
| 1950 May       | 1851.2        | 1986 May       | <b>1854.6</b> | 2005 May       | 1852.7           |
| 1951 January   | 1849.8        | 1986 September | <b>1854.2</b> | 2005 September | 1852.6           |
| 1951 May       | 1851.2        | 1987 April     | <b>1854.4</b> | 2006 April     | 1853.5           |
| 1952 February  | 1850.9        | 1987 October   | 1852.5        | 2006 September | 1852.7           |
| 1952 May       | <b>1853.9</b> | 1988 April     | 1852.3        | 2007 May       | <b>1854.9</b>    |
| 1952 October   | 1852.0        | 1988 September | 1850.7        | 2007 October   | 1853.6           |
| 1953 November  | 1852.1        | 1989 April     | 1852.2        | 2008 May       | <b>1854.47</b>   |
| 1954 April     | 1852.8        | 1989 October   | 1851.2        | 2008 October   | <b>1853.64</b>   |
| 1954 September | 1852.4        | 1990 May       | 1851.2        | 2009 April     | <b>1854.67</b>   |

|                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|
| 2009 September | 1853.54        | 2014 May       | <b>1854.62</b> | 2018 October   | 1853.52        |
| 2010 April     | <b>1855.3</b>  | 2014 October   | 1853.05        | 2019 June      | <b>1854.62</b> |
| 2010 October   | <b>1853.78</b> | 2015 April     | <b>1853.69</b> | 2019 October   | <b>1854.41</b> |
| 2011 April     | <b>1855.3</b>  | 2015 October   | 1852.66        | 2020 September | 1853.48        |
| 2011 October   | <b>1853.68</b> | 2016 April     | 1853.3         | 2021 May       | <b>1853.78</b> |
| 2012 May       | <b>1854.52</b> | 2016 September | 1852.7         | 2021 September | 1853.31        |
| 2012 September | 1852.83        | 2017 April     | <b>1853.74</b> |                |                |
| 2013 May       | <b>1854.01</b> | 2017 October   | 1853.12        |                |                |
| 2013 October   | 1853.06        | 2018 May       | <b>1854.35</b> |                |                |

The South Dakota Department of Agriculture & Natural Resources Water Management Board is mandated by law to establish Ordinary High-Water Marks (OHWM) on all public lakes in the state of South Dakota. The OHWM is established by DANR after examination of the lake's shoreline and bed for distinct marks left by the continuous action of water on shoreline vegetation, and erosion of the lake's banks. The OHWM of Enemy Swim is determined to be 1854.4 feet above mean sea level. The high water level for Enemy Swim is controlled by a concrete weir located on the southwest shore of Campbell Slough (pictured below). The existing outlet structure was constructed in 1973 at an elevation of 1853.6 feet above mean sea level, 0.8 feet below the OHWM of 1854.4. According to accounts, the Campbell Slough outlet was lowered by 3.5 feet in the early 1920's from an elevation of 1857.1. The following elevations are from the records of the SD DANR and Day Conservation District.

Note: Bold elevations denote when lake levels were higher than the Campbell Slough outlet elevation of 1853.6. At these elevations water normally flows to Blue Dog Lake.

Lowest recorded elevation 1838.0\* (October 1940)

Highest recent elevation: 1856.27\*\* (April 1997)

Highest recorded elevation: 1857.1 (1918)

Average elevation: 1849.1

Lake elevations are taken every spring and fall by the Water Rights Division of the SD Dept. of Agriculture and Natural Resources.



The outlet weir located on the southwest corner of Campbell Slough. High water flows south to Blue Dog Lake.