

Lake Conservation Notes

Northeast Glacial Lakes Watershed Project
600 East Hwy 12, Suite 1
Webster, SD 57274



Enemy Swim Lake Elevations 1933 - 2009

The South Dakota Department of Environment & 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 DENR 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 lakes 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 on back page). 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 DENR and Day Conservation District.

<u>Year/Month</u>	<u>Water Level</u>	<u>Year/Month</u>	<u>Water Level</u>	<u>Year/Month</u>	<u>Water Level</u>
1933 August	1843.0	1945 October	1851.4	1962 June	1849.7
1934 July	1841.7	1946 May	1850.0	1962 December	1850.8
1934 August	1841.1	1946 October	1849.5	1963 May	1851.1
1935 October	1840.1	1947 May	1851.9	1964 May	1851.7
1936 April	1840.2	1948 May	1852.3	1966 May	1852.3
1936 November	1838.1	1949 May	1849.4	1966 November	1851.3
1937 May	1841.9	1949 November	1849.5	1967 May	1852.0
1937 October	1840.9	1950 May	1851.2	1968 May	1850.4
1938 June	1841.1	1951 January	1849.8	1968 November	1849.6
1938 October	1840.2	1951 May	1851.2	1969 May	1852.5
1939 May	1841.5	1952 February	1850.9	1969 November	1851.4
1939 November	1839.6	1952 May	1853.9	1970 May	1853.2
1940 May	1840.3	1952 October	1852.0	1970 December	1851.0
1940 October	1838.0*	1953 November	1852.1	1975 May	1852.5
1941 June	1840.4	1954 April	1852.8	1976 November	1847.2
1941 November	1840.2	1954 September	1852.4	1982 July	1851.7
1942 May	1841.5	1955 May	1852.1	1982 October	1851.2
1942 November	1840.5	1956 May	1851.3	1983 May	1851.4
1943 June	1845.8	1956 November	1849.9	1983 October	1850.2
1943 November	1845.4	1957 September	1850.5	1984 June	1851.9
1944 July	1846.7	1960 April	1849.1	1984 September	1851.2
1944 November	1846.9	1961 June	1847.9	1985 May	1852.3
1945 May	1848.1	1961 December	1846.9	1985 October	1851.5

<u>Year/Month</u>	<u>Water Level</u>	<u>Year/Month</u>	<u>Water Level</u>	<u>Year/Month</u>	<u>Water Level</u>
1986 May	1854.6	1994 May	1855.1	2001 May 7	1854.72
1986 September	1854.2	1994 September	1853.9	2001 August 22	1853.26
1987 April	1854.4	1995 May	1854.7	2002 April 19	1853.6
1987 October	1852.5	1995 October	1853.8	2002 October 9	1852.84
1988 April	1852.3	1996 May	1854.6	2003 April 29	1853.2
1988 September	1850.7	1996 June	1854.6	2003 Sept. 17	1852.6
1989 April	1852.2	1996 July	1854.3	2004 May 4	1852.52
1989 October	1851.2	1996 October 9	1853.4	2004 Sept. 14	1852.4
1990 May	1851.2	1997 April 16	1856.27**	2005 May 11	1852.7
1990 September	1850.7	1997 Oct. 29	1853.32	2005 Sept. 23	1852.6
1991 May	1850.7	1998 May 18	1854.85	2006 April 18	1853.5
1991 October	1852.1	1998 Sept 5	1853.43	2006 Sept. 20	1852.7
1992 April	1852.4	1999 June 10	1854.16	2007 May 9	1854.9
1992 September	1852.0	1999 Nov 2	1853.32	2007 October 17	1853.6
1993 May	1853.4	2000 May 1	1853.72	2008 May 7	1854.47
1993 September	1854.8	2000 October 13	1852.46	2008 October 21	1853.64
				2009 April 29	1854.67
				2009 Sept 30	1853.54

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 Environment and Natural Resources.



Outlet weir at Campbell Slough and high water overflow to Blue Dog Lake