

Water-Data Report 2011

12101000 LAKE TAPPS NEAR SUMNER, WA

Puget Sound Basin
Puyallup Subbasin

LOCATION.--Lat 47°14'28", long 122°11'26" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.8, T.20 N., R.5 E., Pierce County, WA, Hydrologic Unit 17110014, 1.7 mi east of Dieringer, and 3.5 mi northeast of Sumner.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1911 to current year. October 1934 to October 1950, change in contents published with records for Puyallup River at Puyallup. Monthend contents only November 1911 to September 1950, published in WSP 1316.

REVISED RECORDS.--WDR-WA-09-1: Elevation of gage datum.

GAGE.--Water-stage recorder. Datum of gage is 0.5 ft below NGVD of 1929.

COOPERATION.--Prior to October 1, 1990, and July 1996 to May 1997, gage-height record furnished by Puget Sound Energy. Contents curve furnished by Puget Sound Energy.

REMARKS.--Reservoir is formed by a diked natural lake into which a large part of the low-water flow of White River is diverted. Construction of dike began June 1910; storage began in 1911. Usable capacity (based on 1959 resurvey; capacity table dated July 28, 1959, put into use Oct. 1, 1958), 46,660 acre-ft between gage heights of 515 ft, normal minimum pool, and 543 ft, normal maximum pool. Storage below 515 ft unknown. Figures given herein represent usable contents. Reservoir was used for power development at the White River Powerplant at Dieringer until January 15, 2004. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 51,710 acre-ft, June 30, 1958, gage height, 541.57 ft, capacity table dated Jan. 19, 1920; maximum gage height observed, 543.07 ft, July 8, 1990; minimum contents observed, not determined (below normal minimum pool) Mar. 14, 2003, gage height, 498.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 46,630 acre-ft Sept. 22, gage height 542.99, minimum contents 28,743 acre-feet Mar. 18, gage height 535.31 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents |
|--------------------|------------------|----------------------|--------------------|
| September 30 | 542.10 | 44,389 | -- |
| October 31 | 541.81 | 43,673 | -716 |
| November 30 | 539.81 | 38,862 | -4,811 |
| December 31 | 537.97 | 34,598 | -4,264 |
| Calendar Year 2010 | -- | -- | 10,659 |
| January 31 | 536.95 | 32,303 | -2,295 |
| February 28 | 536.15 | 30,545 | -1,758 |
| March 31 | 538.89 | 36,714 | 6,169 |
| April 30 | 542.20 | 44,641 | 7,927 |
| May 31 | 542.60 | 45,648 | 1,007 |
| June 30 | 542.45 | 45,270 | -378 |
| July 31 | 542.34 | 44,993 | -277 |
| August 31 | 542.47 | 45,320 | 327 |
| September 30 | 542.16 | 44,540 | -780 |
| Water Year 2010 | -- | -- | 151 |