

Water-Data Report 2007

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.

GAGE.--Water-stage recorder. Datum of gage is 0.7 ft above NGVD of 1929 (levels by Puget Sound Energy).

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) Jan. 23 to Apr. 16, 2003; minimum gage height, 498.91 ft, Mar. 14, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous contents, 45,849 acre-ft on Jul 25, gage height of 542.68ft at 15:00; Minimum instantaneous contents 7,609 acre-feet on Dec 08, gage height of 522.43ft at 09:00.

MONTH-END GAGE HEIGHT AND CONTENTS AT 2400
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Gage Height (feet)	Contents (acre-feet)	Change in contents
September 30	541.47	42,842	--
October 31	532.78	23,614	-19,228
November 30	523.56	8,987	-14,627
December 31	524.01	9,579	+592
Calendar Year 2006	--	--	-18,068
January 31	522.81	8,037	-1,542
February 28	522.86	8,093	+56
March 31	523.33	8,685	+592
April 30	523.93	9,473	+788
May 31	535.06	28,209	+18,736
June 30	540.86	41,360	+13,151
July 31	542.59	45,623	+4,263
August 31	542.34	44,993	-630
September 30	541.91	43,917	-1,076
Water Year 2007	--	--	+1,075