

Water-Data Report 2013

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, May 8, gage height, 542.99, minimum contents, 24,748 acre-feet, Feb. 10,11, gage height, 533.36 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	542.32	44,943	--
October 31	541.44	42,769	-2174
November 30	539.18	37,388	-5,381
December 31	538.87	36,668	-720
Calendar Year 2012	--	--	+4,826
January 31	533.65	25,322	-11,346
February 28	533.73	25,480	+158
March 31	541.56	43,062	+17,582
April 30	542.16	44,540	+1,478
May 31	542.67	45,824	+1,284
June 30	542.68	45,849	+25
July 31	542.64	45,749	-100
August 31	542.65	45,774	+25
September 30	542.64	45,749	-25
Water Year 2013	--	--	+806

12101000 LAKE TAPPS NEAR SUMNER, WA—Continued

CORRECTIONS.--Years reported in month-end content tables for water years 2010, 2011, 2012 are in error and are corrected with the following month-end content tables.

MONTH-END GAGE HEIGHT AND CONTENTS AT 2400
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	541.84	43,746	--
October 31	541.14	42,036	-1,710
November 30	537.65	33,878	-8,158
December 31	532.95	23,939	-9,939
Calendar Year 2009	--	--	-1,442
January 31	529.66	18,013	-5,926
February 28	534.28	26,594	+8,581
March 31	536.10	30,435	+3,841
April 30	542.38	45,094	+14,659
May 31	542.77	46,076	+982
June 30	542.58	45,597	-479
July 31	542.71	45,925	+328
August 31	542.42	45,195	-730
September 30	542.10	44,389	-806
Water Year 2010	--	--	+643

MONTH-END GAGE HEIGHT 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 2011	--	--	+151

12101000 LAKE TAPPS NEAR SUMNER, WA—ContinuedMONTH-END GAGE HEIGHT AND CONTENTS AT 2400
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	542.16	44,540	--
October 31	542.12	44,439	-101
November 30	537.64	33,855	-10,584
December 31	536.74	31,842	-2,013
Calendar Year 2011	--	--	-2,756
January 31	534.70	27,461	-4,381
February 29	534.16	26,346	-1,115
March 31	541.39	42,647	+16,301
April 30	542.67	45,824	+3,177
May 31	542.64	45,749	-75
June 30	542.72	45,950	+201
July 31	542.64	45,749	-201
August 31	542.71	45,925	+176
September 30	542.32	44,943	-982
Water Year 2012	--	--	+403