



Water-Data Report 2008

12193000 LAKE SHANNON AT CONCRETE, WA

Puget Sound Basin
Upper Skagit Subbasin

LOCATION.--Lat 48°32'53", long 121°44'22" referenced to North American Datum of 1927, in SW ¼ sec.2, T.35 N., R.8 E., Skagit County, WA, Hydrologic Unit 17110005, at Baker Dam on Baker River near left bank, 0.7 mi north of Concrete, and at mile 1.2.

DRAINAGE AREA.--297 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1925 to current year.

GAGE.--Water-stage recorder; prior to Nov. 11, 1959, water-stage indicator in powerplant. Datum of gage is NAVD of 1988. Prior to Oct. 1, 2004 datum of gage was 3.75 ft higher at NGVD of 1929. Prior to March 1959, at datum 2.03 ft higher. Period August 31, 1961, to September 30, 1991, at datum 3.90 ft higher.

REMARKS.--Records fair. Reservoir is formed by concrete-arch and gravity dam, completed in June 1927; storage began in November 1925. Usable storage, 132,900 acre-ft, between elevations 358.75 ft, minimum operating pool, and 442.35 ft, normal full pool. Dead storage below elevation 358.75 ft, 20,795 acre-ft. Spillway crest is at elevation 428.65 ft. Water used by Puget Sound Energy for power generation. Capacity table to datum of NAVD of 1988 prepared and furnished by Puget Sound Energy on the basis of a resurvey of the lake bed. Prior to Nov. 11, 1959, gage-height record furnished by Puget Sound Energy from powerplant log. Figures given herein represent total contents. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 161,470 acre-ft, Sept. 17, 1968, elevation, 443.40 ft, present datum; minimum contents since October 1953, 28,260 acre-ft, Mar. 6, 1969, elevation, 367.60 ft, present datum not determined prior to October 1953 because of incomplete records.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 153,350 acre-ft, June 29, elevation, 442.21 ft; minimum contents, 39,357 acre-ft, March 17, elevation, 375.84 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
December 31, 2006	435.94	139,515	--
September 30	404.73	81,001	--
October 31	423.57	114,501	+33,500
November 30	422.80	113,031	-1,470
December 31	433.76	134,900	+21,869
Calendar Year 2007	--	--	-4,615
January 31	406.95	84,703	-50,197
February 28	378.48	42,538	-42,165
March 31	376.59	40,253	-2,285
April 30	401.79	76,183	+35,930
May 31	438.25	144,515	+68,332
June 30	440.99	150,591	+6,076
July 31	431.90	131,037	-19,554
August 31	413.57	96,108	-34,929
September 30	415.99	100,429	+4,321
Water Year 2008	--	--	+19,428