



Water-Data Report 2007

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, 151,358 acre-ft, October 24, elevation, 441.33 ft; minimum contents, 64,992 acre-ft, September 17, elevation, 394.69 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400

WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
December 31, 2005	438.61	145,304	--
September 30	432.59	132,463	--
October 31	438.09	144,163	+11,700
November 30	426.56	120,301	-23,862
December 31	435.94	139,515	+19,214
Calendar Year 2006	--	--	-5,789
January 31	429.10	125,345	-14,170
February 28	425.76	118,734	-6,611
March 31	432.49	132,256	+13,522
April 30	416.12	100,664	-31,592
May 31	427.91	122,968	+22,304
June 30	433.29	133,918	+10,950
July 31	436.50	140,719	+6,801
August 31	399.69	72,805	-67,914
September 30	404.73	81,001	+8,196
Water Year 2007	--	--	-51,462