



Water-Data Report 2007

**14218500 YALE RESERVOIR NEAR YALE, WA**

Lower Columbia Basin  
Lewis Subbasin

LOCATION.--Lat 45°57'50", long 122°19'53" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.32, T.6 N., R.4 E., Clark County, WA, Hydrologic Unit 17080002, at left bank on Yale Dam on Lewis River just upstream from intake, 500 ft upstream from powerhouse, 1.0 mi upstream from Canyon Creek, 3.2 mi southeast of Yale, and at mile 34.2.

DRAINAGE AREA.--596 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1952 to current year.

GAGE.--Water-stage recorder and long distance indicator in powerhouse. Datum of gage is NGVD of 1929 (levels by PacifiCorp). Prior to Feb. 1, 1954, nonrecording indicator gage at same site and datum.

COOPERATION.--Hourly elevations and capacity table furnished by PacifiCorp. Records reviewed and three inspections made by USGS.

REMARKS.--Reservoir is formed by rock and earthfill dam; storage began July 31, 1952; dam completed in 1952. Usable capacity, 189,500 acre-ft between elevations 430 ft, lower limit for economic operation, and 490 ft, top of spillway gates. Dead storage below elevation 417 ft, 178,000 acre-ft. Figures given herein represent total contents. Water is used by PacifiCorp for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 402,500 acre-ft, May 13, 1961, elevation 490.15 ft; minimum contents observed since reservoir was first filled, 227,600 acre-ft, Feb. 22, 1957, elevation 435.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 400,300 acre-ft, June 7, elevation 489.60 ft; minimum contents; 328,700 acre-ft, Feb. 15, elevation 469.38.

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)
September 30	479.82	364,400	--
October 31	479.25	362,400	-2,000
November 30	481.69	371,100	+8,700
December 31	479.76	364,200	-6,900
Calendar Year 2006	--	--	-9,100
January 31	477.45	356,100	+8,100
February 28	472.05	337,600	-18,500
March 31	479.97	365,000	+27,400
April 30	485.92	386,500	+21,500
May 31	486.96	390,400	+3,900
June 30	488.13	394,800	+4,400
July 31	483.39	377,300	-17,500
August 31	480.57	367,100	-10,200
September 30	486.51	388,700	+21,600
Water Year 2007	--	--	+40,500