



Water-Data Report 2007

12177700 GORGE RESERVOIR NEAR NEWHALEM, WA

Puget Sound Basin
Upper Skagit Subbasin

LOCATION.--Lat 48°41'53", long 121°12'25" referenced to North American Datum of 1927, in NW ¼ sec.14, T.37 N., R.12 E., Whatcom County, WA, Hydrologic Unit 17110005, Ross Lake National Recreation Area, at Gorge Dam on Skagit River, 2.4 mi upstream from Gorge powerplant at Newhalem, and at mile 96.6.

DRAINAGE AREA.--1,159 mi², includes 400 mi² in Canada.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder; prior to Apr. 1, 1962, reference point on Gorge Dam or water-stage indicator in powerhouse. Datum of gage is 0.00 ft City of Seattle Gorge High Dam datum, and 1.792 ft below NGVD of 1929 (Corps of Engineers' benchmark).

REMARKS.--Reservoir is formed by concrete-arch and gravity dam, completed Dec. 27, 1960; storage began June 27, 1960. Usable storage, 2,115 acre-ft between elevations 865 ft, normal lower limit of operation, and 875 ft, top of gates. Lowest outlet at elevation 760 ft. No dead storage. Crest of spillway is at elevation 825 ft. Water used by City of Seattle for power development at Gorge powerplant. Capacity table furnished by City of Seattle. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 9,761 acre-ft June 1, 1982, elevation, 880.01 ft; minimum observed contents since normal low operating level was reached in December 1960, 172 acre-ft Aug. 13, 1997, elevation, 781.75 ft (City of Seattle).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 8,851 acre-ft, July 6, elevation, 876.49ft; minimum recorded contents, 2,539 acre-ft, June 27, elevation, 832.93 ft.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	870.96	7,556	--
October 31	872.34	7,864	+308
November 30	871.74	7,728	-136
December 31	871.14	7,596	-132
Calendar Year 2006	--	--	+100
January 31	872.26	7,845	+249
February 28	872.86	7,982	+137
March 31	871.60	7,698	-284
April 30	873.47	8,124	+426
May 31	871.80	7,742	-382
June 30	874.78	8,433	+691
July 31	871.26	7,622	-811
August 31	872.53	7,907	+285
September 30	871.40	7,653	-254
Water Year 2007	--	--	+97