

Water-Data Report 2007

14234800 RIFFE LAKE NEAR MOSSYROCK, WA

Lower Columbia Basin
Lower Cowlitz Subbasin

LOCATION.--Lat 46°32'07", long 122°25'25" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.10, T.12 N., R.3 E., Lewis County, WA, Hydrologic Unit 17080005, in emergency generator room on top of Mossyrock Dam on Cowlitz River, 2.8 mi east of Mossyrock, and at mile 65.5.

DRAINAGE AREA.--1,154 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1968 to current year.

REVISED RECORDS.--WDR WA-74-1: 1973.

GAGE.--Water-stage recorder; nonrecording gage prior to July 25, 1968. Datum of gage is NGVD of 1929 (levels by City of Tacoma).

REMARKS.--Reservoir is formed by concrete arch dam, completed in April 1968; storage began Apr. 3, 1968. Useable capacity, 1,297,400 acre-ft between elevations 600 ft, minimum operating level, and 770 ft, normal operating pool. Unused storage below elevation 600 ft, 288,900 acre-ft. Crest of spillway is at elevation 728.5 ft and top of taintor gates are at elevation 778.5 ft. Water used by City of Tacoma for power generation. Figures given herein represent total contents. Capacity table furnished by City of Tacoma. Chemical analyses December 1973 to September 1983 (samples were taken near the dam).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,686,300 acre-ft, July 31, 1972, elevation, 778.63 ft; minimum contents since normal low operating level was attained, 517,233 acre-ft, Mar. 9, 2001, elevation, 644.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,558,784 acre-ft, Nov. 9, elevation, 767.55 ft; minimum contents, 1,162,141 acre-ft, Feb. 8, elevation 728.44 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)
September 30	751.85	1,390,884	--
October 31	737.45	1,247,533	-143,351
November 30	742.00	1,291,860	+44,327
December 31	737.97	1,252,556	-39,304
Calendar Year 2006	--	--	+68,895
January 31	732.18	1,197,224	-55,332
February 28	737.45	1,247,533	+50,309
March 31	759.37	1,469,575	+222,042
April 30	741.59	1,287,830	-181,745
May 31	750.50	1,377,058	+89,228
June 30	757.84	1,453,323	+76,265
July 31	759.28	1,468,616	+15,293
August 31	753.36	1,406,452	-62,164
September 30	745.02	1,321,765	-84,687
Water Year 2007	--	--	-69,119