



Water-Data Report 2006

**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 mi<sup>2</sup>.

**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, 1,657,709 acre-ft, July 11, elevation, 776.20 ft; minimum contents, 984,479 acre-ft, Dec. 21, elevation 708.63 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	751.19	1,384,114	--
October 31	741.02	1,282,240	-101,874
November 30	729.77	1,174,565	-107,675
December 31	730.74	1,183,661	+9,096
Calendar Year 2005	--	--	-84,711
January 31	745.73	1,328,853	+145,192
February 28	735.70	1,230,708	-98,145
March 31	726.04	1,139,883	-90,825
April 30	734.63	1,220,479	+80,596
May 31	760.06	1,476,947	+256,468
June 30	774.61	1,639,179	+162,232
July 31	771.33	1,601,414	-37,765
August 31	763.43	1,513,361	-88,053
September 30	751.85	1,390,884	-122,477
Water Year 2006	--	--	+6,770