

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, 1,665,794 acre-ft, July 21, elevation 776.89 ft; minimum contents, 1,144,133 acre-ft, Dec. 9, elevation 726.50 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	754.52	1,418,489	--
October 31	737.16	1,244,737	-173,752
November 30	730.61	1,182,440	-62,297
December 31	737.05	1,243,677	+61,237
Calendar Year 2010	--	--	+98,248
January 31	751.13	1,383,501	+139,824
February 28	734.04	1,214,859	-168,642
March 31	746.19	1,333,458	+118,599
April 30	743.21	1,303,796	-29,662
May 31	747.40	1,345,615	+41,819
June 30	767.89	1,562,579	+216,964
July 31	776.54	1,661,689	+99,110
August 31	768.75	1,572,209	-89,480
September 30	755.46	1,428,294	-143,915
Water Year 2011	--	--	+9,805