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^2.

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, 1,668,024 acre-ft, July 11, elevation 777.08 ft; minimum contents, 1,109,613 acre-ft, Dec. 27, elevation, 722.74 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Date	Elevation (feet)	Contents (acre-feet)	Change in contents
September 30	755.46	1,428,294	--
October 31	741.42	1,286,162	-142,132
November 30	742.97	1,301,423	+15,261
December 31	735.43	1,228,123	-73,300
Calendar Year 2011	--	--	-15,554
January 31	738.71	1,259,725	+31,602
February 29	744.70	1,318,578	+58,853
March 31	742.90	1,300,732	-17,846
April 30	754.35	1,416,721	+115,989
May 31	767.58	1,559,119	+142,398
June 30	773.77	1,629,449	+70,330
July 31	772.89	1,619,298	-10,151
August 31	765.12	1,531,871	-87,427
September 30	752.09	1,393,352	-138,519
Water Year 2012	--	--	-34,942

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 14234800, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/14234800.2012.pdf