

COWLITZ RIVER BASIN

1

14237800 MAYFIELD RESERVOIR NEAR SILVER CREEK, WA

LOCATION.--Lat 46°30'13", long 122°35'11", in SE 1/4 SW 1/4 sec.20, T.12 N., R.2 E., Lewis County, Hydrologic Unit 17080005, on right bank at Mayfield Dam on Cowlitz River, 0.3 mi downstream from Silver Creek, 4 mi south of town of Silver Creek, and at mile 52.0.

DRAINAGE AREA.--1,392 mi².

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Mar. 5, 1963, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete arch dam, completed April 1962; storage began Apr. 14, 1962. Usable capacity, 21,380 acre-ft between elevation 415 ft, lower limit of operation, and 425 ft, top of taintor gates. Dead storage below elevation 415 ft, 112,340 acre-ft. Crest of spillway is at elevation 385 ft. Water is 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, 134,850 acre-ft Dec. 9, 1971, elevation, 425.50 ft; minimum contents since normal operating level was attained, 112,830 acre-ft June 4, 1969, elevation, 415.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 133,188 acre-ft Jan. 24, elevation, 424.76 ft; minimum contents, 121,438 acre-ft Dec. 16, elevation, 419.38 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	423.68	130,766	---
Oct. 31.....	423.80	131,040	+274
Nov. 30.....	423.18	129,664	-1,376
Dec. 31.....	422.85	128,940	-724
CAL YR 2001.....	---	---	+5,802
Jan. 31.....	423.77	130,971	+2,031
Feb. 28.....	423.61	130,612	-359
Mar. 31.....	420.56	123,952	-6,660
Apr. 30.....	423.86	131,172	+7,220
May 31.....	421.49	125,968	-5,204
June 30.....	424.05	131,590	+5,622
July 31.....	424.13	131,769	+179
Aug. 31.....	423.94	131,348	-421
Sept. 30.....	423.82	131,084	-264
WTR YR 2002.....	---	---	+318