14238000 COWLITZ RIVER BELOW MAYFIELD DAM, WA

LOCATION.--Lat 46°30'38", long 122°36'54", in SE ¼ NE ¼ sec.24, T.12 N., R.1 E., Lewis County, Hydrologic Unit 17080005, on right bank 1.1 mi upstream from fish barrier dam, 1.4 mi downstream from Mayfield Dam, 1.5 mi upstream from Mill Creek, 2.1 mi downstream from Winston Creek, and at mile 50.6.

DRAINAGE AREA.--1,400 mi^2.

PERIOD OF RECORD.--August to October 1910, December 1910 to September 1911, October to November 1911 (monthly discharge only), April 1934 to current year. Published as "at Mayfield" water years 1910-11 and "near Mayfield" water years 1934-61.

REVISED RECORDS.--WSP 1318: 1949(M). WSP 1348: Drainage area. WSP 1718: 1943, 1947.

GAGE.--Water-stage recorder. Datum of gage is 226.6 ft above NGVD of 1929. August 1910 to November 1911 nonrecording gage at site 2.5 mi upstream at different datum. Apr. 27 to July 2, 1934, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Riffe Lake (station 14234800) at mile 65.5 and Mayfield Reservoir (station 14237800) at mile 52.0. Minor diversions for domestic and farm use upstream from station. U.S. Geological Survey satellite telemeter at station. Sediment records October 1978 to September 1980. Water temperatures October 1950 to September 1980.

AVERAGE DISCHARGE.--69 years (water years 1935-2003), 6,249 ft^3/s, 60.62 in/yr, 4,527,400 acre-ft/yr, adjusted for storage in Mayfield Reservoir since April 1962, and Riffe Lake since April 1968.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,400 ft^3/s Nov. 28, 1995; gage height, 26.19 ft; minimum discharge, 37 ft^3/s Apr. 16, 1962, gage height, 6.42 ft; minimum daily discharge, 451 ft^3/s Apr. 16, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1933 is known to have exceeded that of Nov. 28, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,300 ft^3/s Jan. 31; gage height 17.08, minimum discharge 2,590 ft^3/s July 27, 28 and many days in August.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,620	3,920	2,950	2,940	19,500	5,290	8,720	5,710	4,020	3,390	2,670	2,610
2	4,620	3,120	2,940	2,940	17,800	5,220	9,790	5,260	4,000	3,380	2,600	2,920
3	4,610	3,100	2,930	3,530	15,400	5,240	10,200	5,210	4,000	3,370	2,590	3,170
4	4,600	3,210	2,940	3,790	14,500	5,240	10,100	5,200	4,010	3,370	2,590	3,370
5	4,040	3,170	2,940	3,780	13,800	5,230	8,590	5,200	4,000	3,370	2,590	3,340
6	3,950	2,920	2,940	4,600	13,500	5,210	7,140	5,190	4,000	3,380	2,590	2,700
7	4,450	2,930	2,940	5,590	10,300	5,200	8,840	5,180	4,020	3,370	2,590	2,620
8	4,590	2,930	2,940	5,570	8,130	5,210	10,100	5,200	4,020	3,370	2,590	2,920
9	4,040	2,930	2,930	5,580	8,110	5,210	10,100	5,210	4,000	3,380	2,600	3,030
10	3,940	2,940	2,920	5,560	9,920	7,060	10,100	5,210	4,560	3,380	2,600	3,030
11	3,930	2,940	2,980	4,120	10,600	10,100	8,280	5,240	4,050	3,350	3,130	3,030
12	3,240	2,950	3,110	3,980	11,000	12,600	7,440	5,250	3,980	3,360	3,380	3,030
13	3,100	2,940	3,120	5,430	11,000	13,600	6,880	5,200	3,970	3,360	3,400	2,700
14	3,710	2,940	3,140	5,580	10,000	13,600	8,670	5,220	3,970	3,360	3,370	2,610
15	3,930	2,940	3,160	5,590	6,090	13,600	9,060	5,210	3,980	3,370	3,170	3,200
16	3,930	2,930	3,060	5,000	5,980	13,600	9,090	5,190	3,980	3,370	2,600	3,070
17	3,940	2,930	3,040	4,650	5,970	13,500	9,030	5,200	4,730	3,370	2,600	3,030
18	3,630	2,930	3,510	4,010	5,960	10,500	7,510	5,210	4,050	3,360	3,140	3,040
19	3,100	2,930	3,950	3,970	6,460	11,600	6,900	5,220	3,970	3,350	3,360	3,050
20	3,110	2,930	3,940	4,830	7,450	11,600	6,890	5,230	3,940	3,360	3,200	2,660
21	3,740	2,930	3,140	6,720	6,890	11,500	8,210	5,240	3,540	3,370	3,030	2,620
22	3,940	2,940	3,150	8,240	6,890	11,500	9,060	5,240	3,480	3,200	2,940	3,260
23	3,930	2,940	3,490	8,430	5,540	10,600	9,030	5,220	3,480	3,030	2,610	3,060
24	3,930	2,940	3,130	7,540	7,880	11,000	9,020	5,040	3,450	3,030	2,610	3,030
25	3,940	2,940	2,940	7,550	9,070	11,500	7,620	5,060	3,440	2,980	3,070	3,060
26	3,320	2,930	2,960	9,550	9,040	11,500	6,950	5,060	3,450	2,610	3,350	3,020
27	3,100	2,930	2,960	11,600	8,970	11,400	6,130	5,050	3,410	2,600	3,360	2,640
28	3,870	2,920	2,950	10,700	7,610	9,840	7,150	5,040	3,370	2,930	3,220	2,630
29	3,930	2,940	2,950	10,100	---	8,510	7,450	5,040	3,390	3,380	2,830	3,000
30	3,940	2,940	2,950	10,300	---	6,940	7,490	5,020	3,400	3,550	2,610	3,280
31	3,940	---	2,950	16,900	---	8,090	---	4,130	---	3,280	2,620	---
TOTAL	120,660	89,880	95,950	198,670	273,360	290,790	251,540	159,880	115,660	101,330	89,610	88,730
MEAN	3,892	2,996	3,095	6,409	9,763	9,380	8,385	5,157	3,855	3,269	2,891	2,958
MAX	4,620	3,920	3,950	16,900	19,500	13,600	10,200	5,710	4,730	3,550	3,400	3,370
MIN	3,100	2,920	2,920	2,940	5,540	5,200	6,130	4,130	3,370	2,600	2,590	2,610
AC-FT	239,300	178,300	190,300	394,100	542,200	576,800	498,900	317,100	229,400	201,000	177,700	176,000
MEAN†	1,044	1,760	3,675	10,150	10,200	11,200	7,124	6,421	5,174	2,361	1,455	1,361
CFSM†	0.75	1.26	2.62	7.25	7.29	8.00	5.09	4.59	3.70	1.69	1.04	0.97
IN.†	0.86	1.40	3.03	8.36	7.59	9.22	5.68	5.29	4.12	1.94	1.20	1.08
AC-FT†	64,190	104,700	226,000	624,500	566,400	688,500	423,800	394,900	307,800	145,200	89,940	80,960

CAL YR 2002 TOTAL 2,189,150 MEAN 5,998 MAX 13,800 MIN 2,920 AC-FT 4,342,000 MEAN† 5,849 CFSM† 4.18 IN.† 56.72 AC-FT† 4,235,000
WTR YR 2003 TOTAL 1,876,060 MEAN 5,140 MAX 19,500 MIN 2,590 AC-FT 3,721,000 MEAN† 5,132 CFSM† 3.67 IN.† 49.77 AC-FT† 3,716,000

† Adjusted for change in contents in Riffe Lake and Mayfield Reservoir.