

COWLITZ RIVER BASIN

14238000 COWLITZ RIVER BELOW MAYFIELD DAM, WA

LOCATION.--Lat 46°30'38", long 122°36'54", in SE 1/4 NE 1/4 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 mi².

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.--68 years (water years 1935-2002), 6,265 ft³/s, 60.77 in/yr, 4,539,000 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 ft³/s Nov. 28, 1995; gage height, 26.19 ft; minimum discharge, 37 ft³/s Apr. 16, 1962, gage height, 6.42 ft; minimum daily discharge, 451 ft³/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, 13,900 ft³/s Dec. 19, Jan. 9, 22, 23,28; maximum gage height 15.17 on Jan. 22; minimum discharge, 2,470 ft³/s many days in October and November 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	2480	10100	6010	8930	8210	5200	8960	9420	10300	2980	3000
2	2550	2480	9760	5980	5900	7170	5170	8960	9170	10600	2980	3500
3	2540	2490	12100	5880	5830	5340	5140	7560	10400	9360	2990	4450
4	2500	2500	12500	5870	7070	5160	6470	5980	9890	7590	2990	4620
5	2500	2590	12500	5870	7370	5140	6670	5860	9850	5680	2990	4620
6	2510	3550	12500	5890	7360	5140	5210	8420	9840	5160	2990	4350
7	2520	3500	11500	10600	7330	5140	5210	9040	9860	5150	2990	3150
8	2510	3510	7630	13200	5650	5140	6740	9050	9850	6820	3000	3070
9	2510	3500	7400	13700	4990	5140	6730	9070	9850	6220	3000	4300
10	2510	3500	9020	13600	5010	5170	6190	7540	10400	5860	3000	4610
11	2500	3510	9540	13600	5010	5180	6210	6030	10600	5850	3010	4600
12	2500	3520	9510	13600	5010	5140	6180	5200	10500	5230	4100	4610
13	2500	3520	10600	13600	5010	5150	6180	8310	10500	5170	4320	4440
14	2500	4740	13000	13500	5010	5160	6430	8940	10500	5190	4320	3260
15	2490	5370	13700	13500	5000	5150	8400	8960	9930	5170	4310	3070
16	2490	4320	13600	13500	5020	5290	8970	9000	10500	4990	4210	4300
17	2490	3510	13600	13600	5020	7430	8980	7540	11100	4010	3170	4610
18	2490	3520	13600	13600	5000	8300	9000	5920	11100	3920	3000	4600
19	2490	5660	13700	13600	5000	10200	8970	5240	10600	3810	4040	4600
20	2490	7280	13600	13600	4990	10200	7540	8750	9650	3080	4290	4470
21	2500	7180	13600	13700	5220	10200	6010	9060	7600	3120	4280	3310
22	2500	6010	12400	13800	5520	10100	8440	6910	7680	3940	4280	3070
23	2490	5930	9580	13800	5040	7790	11300	6710	8070	3930	4000	4220
24	2490	5900	8490	13700	5020	6270	9640	5800	10300	3930	3000	4400
25	2480	5880	6000	13700	6380	8380	9410	5140	11500	3920	2990	3510
26	2490	9970	6010	13600	8410	8550	7550	5140	11400	3270	4020	3230
27	2500	12500	5990	13600	8410	8510	5920	5140	10200	2970	4290	3220
28	2500	13600	5980	13700	8330	8460	5190	7550	9880	2970	4290	3060
29	2500	13700	5960	12700	---	6810	8180	10100	9810	2980	4300	3070
30	2490	13500	5960	9770	---	5230	8950	12400	9120	2980	4200	3360
31	2490	---	5980	9780	---	5190	---	13400	---	2980	3140	---
TOTAL	77570	169220	315410	364150	167840	209440	216180	241680	299070	156150	111470	116680
MEAN	2502	5641	10170	11750	5994	6756	7206	7796	9969	5037	3596	3889
MAX	2550	13700	13700	13800	8930	10200	11300	13400	11500	10600	4320	4620
MIN	2480	2480	5960	5870	4990	5140	5140	5140	7600	2970	2980	3000
AC-FT	153900	335600	625600	722300	332900	415400	428800	479400	593200	309700	221100	231400
MEAN†	2088	8397	10350	11080	7074	6696	10770	9597	10810	4545	1904	1405
CFSM†	1.49	6.00	7.39	7.91	5.05	4.78	7.69	6.86	7.72	3.25	1.36	1.00
IN.†	1.72	6.69	8.53	9.13	5.26	5.52	8.58	7.90	8.61	3.74	1.57	1.12
AC-FT†	128400	499500	636700	681700	392800	411800	640400	590200	643200	279500	117100	83560

CAL YR 2001 TOTAL 1382830 MEAN 3789 MAX 13700 MIN 2480 AC-FT 2743000 MEAN† 4665 CFSM† 3.33 IN.† 45.24 AC-FT† 3378000
WTR YR 2002 TOTAL 2444860 MEAN 6698 MAX 13800 MIN 2480 AC-FT 4849000 MEAN† 7050 CFSM† 5.04 IN.† 68.37 AC-FT† 5105000

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