

COWLITZ RIVER BASIN

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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 sea level. 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.--67 years (water years 1935-2001), 6,253 ft³/s, 60.65 in/yr, 4,530,300 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, 10,200 ft³/s Dec. 12, gage height, 13.86 ft; minimum discharge, 2,540 ft³/s many days in March, April, and May.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4240	6290	7570	5050	4200	2710	2550	2570	2560	2620	2680	2640
2	4240	6260	7600	5040	4200	2550	2560	2560	2570	2620	2670	2650
3	4230	6250	7610	5020	4200	2550	2560	2550	2570	2620	2670	2650
4	4240	6280	7050	5060	4210	2560	2560	2550	2580	2620	2670	2660
5	4230	6290	6290	5060	4210	2570	2560	2550	2570	2630	2670	2670
6	4240	6310	6290	5060	4220	2810	2560	2550	2570	2610	2670	2660
7	4250	6270	6330	5070	4210	2570	2560	2550	2570	2620	2670	2660
8	4240	7120	6390	5050	4200	2570	2570	2550	2570	2620	2660	2670
9	4250	7910	6480	5050	4200	2570	2560	2550	2570	2620	2660	2670
10	4240	8350	7420	5050	4200	2570	2570	2550	2580	2620	2660	2650
11	4240	8350	10100	5050	4200	2560	2560	2550	2610	2620	2660	2630
12	4230	8330	10100	5050	4200	2550	2560	2560	2610	2620	2660	2640
13	4230	8330	9860	5060	4190	2560	2560	2560	2610	2620	2650	2630
14	4230	8330	9540	5050	4190	2560	2550	2560	2610	2620	2650	2630
15	4230	7630	7420	5060	4200	2550	2560	2570	2600	2630	2650	2630
16	4230	7610	6270	5040	4190	2560	2560	2560	2600	2630	2640	2640
17	4240	7600	6260	5020	4200	2550	2560	2560	2600	2620	2640	2640
18	4250	7610	6250	5030	4190	2560	2560	2550	2600	2620	2650	2630
19	4250	7590	6250	4920	4200	2560	2570	2550	2600	2630	2650	2630
20	4240	7590	6250	4260	4200	2560	2560	2560	2600	2620	2650	2640
21	4230	7570	5960	4210	4190	2560	2550	2570	2600	2630	2650	2630
22	4230	7540	5130	4220	4200	2560	2550	2560	2600	2630	2650	2640
23	4680	7560	5070	4220	4200	2560	2550	2560	2600	2630	2650	2640
24	4930	7590	5070	4220	4200	2560	2550	2570	2610	2630	2650	2640
25	4620	7590	5070	4200	4210	2570	2560	2570	2610	2630	2650	2630
26	4200	7590	5070	4200	4210	2570	2560	2570	2600	2630	2650	2630
27	4190	7590	5040	4190	4210	2570	2550	2580	2600	2630	2640	2630
28	4210	7580	5040	4190	4150	2560	2560	2580	2600	2630	2660	2630
29	4230	7590	5030	4200	---	2560	2560	2580	2610	2630	2670	2630
30	4230	7590	5080	4200	---	2550	2600	2560	2620	2640	2660	2630
31	4720	---	5060	4200	---	2550	---	2570	---	2660	2640	---
TOTAL	133240	222090	203950	146300	117580	79770	76800	79380	77800	81400	82350	79250
MEAN	4298	7403	6579	4719	4199	2573	2560	2561	2593	2626	2656	2642
MAX	4930	8350	10100	5070	4220	2810	2600	2580	2620	2660	2680	2670
MIN	4190	6250	5030	4190	4150	2550	2550	2550	2560	2610	2640	2630
AC-FT	264300	440500	404500	290200	233200	158200	152300	157500	154300	161500	163300	157200
MEAN†	2618	2247	2771	3206	3530	4096	5552	8215	4712	2546	1829	1388
CFSM†	1.87	1.61	1.98	2.29	2.52	2.93	3.97	5.87	3.37	1.82	1.31	0.99
IN.†	2.16	1.79	2.28	2.64	2.63	3.37	4.42	6.77	3.75	2.10	1.51	1.11
AC-FT†	161000	133700	170400	197200	196000	251900	330300	505200	280300	156600	112500	82560

CAL YR 2000 TOTAL 2089800 MEAN 5710 MAX 13800 MIN 3000 AC-FT 4145000 MEAN† 4812 CFSM† 3.44 IN.† 46.77 AC-FT† 3492000
WTR YR 2001 TOTAL 1379910 MEAN 3781 MAX 10100 MIN 2550 AC-FT 2737000 MEAN† 3560 CFSM† 2.54 IN.† 34.53 AC-FT† 2578000

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