

WENATCHEE RIVER BASIN

12457000 WENATCHEE RIVER AT PLAIN, WA

LOCATION.--Lat 47°45'47", long 120°39'54", in NE 1/4 SW 1/4 sec.12, T.26 N., R.17 E., Chelan County, Hydrologic Unit 17020011, on left bank 300 ft downstream from county road bridge at Plain, 0.3 mi downstream from Beaver Creek, 2.2 mi downstream from Chiwawa River, 11.3 mi north of Leavenworth, and at mile 46.2.

DRAINAGE AREA.--591 mi².

PERIOD OF RECORD.--August 1904 to November 1910 estimates of monthly mean discharges are published in Washington State Water-Supply Bulletin No. 5, December 1910 to September 1950 (monthly discharges only for some periods, published in WSP 1316), October 1950 to September 1979, October 1989 to current year. Published as "near Leavenworth" 1911-31.

REVISED RECORDS.--WSP 482: 1911-14. WSP 1316: 1914(M), 1916(M), 1919(M), 1921-23(M), 1927(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,805 ft above sea level, from river-profile map. Prior to Jan. 8, 1932, nonrecording gages at site 0.2 mi downstream at different datum.

REMARKS.--Records good. Wenatchee Park Land and Irrigation Company diverts water from the Chiwawa River, upstream from the station for irrigation of 1,400 acres near Plain. Natural regulation by Wenatchee Lake 8.0 mi upstream. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--80 years (water years 1911-79, 1990-2000), 2,264 ft³/s, 52.02 in/yr, 1,640,000 acre-ft/yr. Includes mean discharges for water years 1930 and 1931, which were estimated for WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,100 ft³/s Nov. 30, 1995, gage height, 14.97 ft; minimum daily discharge, 160 ft³/s Nov. 25, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,900 ft³/s Nov. 14, gage height, 8.81 ft; minimum discharge, 435 ft³/s Sept. 29-30, gage height, 1.81 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572	1060	2010	1400	733	588	1120	3440	5050	5930	2310	614
2	551	960	2020	1350	750	595	1460	3780	4770	5090	2100	591
3	531	895	1890	1280	781	603	1860	4230	4960	4410	1870	569
4	511	1070	1740	1310	762	634	2420	4420	5530	3960	1730	548
5	500	1020	1650	1280	732	655	2680	4220	7030	3440	1690	529
6	481	975	1640	1200	717	655	2580	3890	7820	3190	1710	512
7	467	1000	1600	1150	700	637	2350	3620	7210	3250	1660	494
8	797	1010	1470	1170	698	631	2200	3480	6690	3440	1540	522
9	1600	1150	1410	1200	711	634	2210	3400	6270	3570	1460	687
10	1260	1400	1330	1160	e690	636	2440	3360	5750	3520	1390	717
11	1050	1560	1370	1120	e680	660	2800	3190	5130	3560	1280	791
12	962	4750	1670	1060	e670	667	3180	2980	5590	3630	1150	726
13	928	10600	1870	1030	e660	663	3640	2890	6600	3520	1060	665
14	945	11200	1820	1010	e650	725	4250	2920	6450	3380	947	635
15	875	8270	2110	999	640	747	4760	3280	7700	3120	914	630
16	807	5790	3820	986	628	779	4610	4000	7400	2940	858	634
17	756	4460	3900	952	608	797	4200	5130	6880	2930	830	636
18	723	3550	4010	883	595	819	4120	5340	7110	2940	804	639
19	687	2990	3720	e800	586	853	4450	5530	7150	3000	790	764
20	655	2710	3180	e810	581	822	4580	6170	6580	3110	779	780
21	629	2480	2780	e825	598	812	4720	6680	6680	3260	742	733
22	607	2210	2470	838	602	840	4960	8300	6990	3310	712	671
23	586	2020	2230	817	604	878	4910	8380	6440	3350	700	610
24	569	1910	2050	796	593	878	4470	7660	5890	3040	707	564
25	563	2570	1900	785	581	885	4050	7010	5880	2700	725	527
26	602	3200	1770	770	581	886	3680	6280	5870	2470	717	500
27	600	2920	1670	752	587	904	3490	6130	6170	2290	712	477
28	625	2530	1580	735	588	931	3620	6440	6610	2170	666	458
29	841	2250	1510	723	587	940	3450	6120	6970	2100	641	442
30	873	2110	1440	705	---	941	3350	5800	6530	2080	633	605
31	1030	---	1400	703	---	971	---	5460	---	2200	637	---
TOTAL	23183	90620	65030	30599	18893	23666	102610	153530	191700	100900	34464	18270
MEAN	748	3021	2098	987	651	763	3420	4953	6390	3255	1112	609
MAX	1600	11200	4010	1400	781	971	4960	8380	7820	5930	2310	791
MIN	467	895	1330	703	581	588	1120	2890	4770	2080	633	442
AC-FT	45980	179700	129000	60690	37470	46940	203500	304500	380200	200100	68360	36240
CFSM	1.27	5.11	3.55	1.67	1.10	1.29	5.79	8.38	10.8	5.51	1.88	1.03
IN.	1.46	5.70	4.09	1.93	1.19	1.49	6.46	9.66	12.07	6.35	2.17	1.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2000, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	899	1413	1359	1094
MAX	2722	6702	4395	3938
MIN	1960	1991	1976	1918
(WY)	251	236	296	335
MEAN	1943	1937	1953	1929
MAX	1089	1089	1216	2673
MIN	2673	8162	9771	11760
(WY)	1934	1934	1956	1974
MEAN	487	487	487	486
MAX	1917	1917	1915	1915
MIN	1915	1915	1915	1915
(WY)	1915	1915	1941	1941

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12457000 WENATCHEE RIVER AT PLAIN, WA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1911 - 2000	
ANNUAL TOTAL	1121843		853465		2285	
ANNUAL MEAN	3074		2332		3344	1934
HIGHEST ANNUAL MEAN					1266	1944
LOWEST ANNUAL MEAN					32900	Nov 30 1995
HIGHEST DAILY MEAN	16000	Jun 17	11200	Nov 14	160	Nov 25 1993
LOWEST DAILY MEAN	467	Oct 7	442	Sep 29	205	Nov 26 1952
ANNUAL SEVEN-DAY MINIMUM	516	Oct 1	510	Sep 24	1656000	
ANNUAL RUNOFF (AC-FT)	2225000		1693000		5.20	3.87
ANNUAL RUNOFF (CFSM)					70.61	52.54
ANNUAL RUNOFF (INCHES)					7860	5880
10 PERCENT EXCEEDS			5870		1670	1200
50 PERCENT EXCEEDS			1380		722	490
90 PERCENT EXCEEDS			601			

e Estimated