

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 NGVD of 1929, from river-profile map. Prior to Jan. 8, 1932, nonrecording gages at site 0.2 mi downstream at different datum.

REMARKS.--No estimated daily discharges. 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.--82 years (water years 1911-79, 1990-2002), 2,252 ft³/s, 51.75 in/yr, 1,632,000 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, 12,400 ft³/s June 16, gage height, 8.98 ft; minimum discharge, 217 ft³/s Oct. 9-10, gage height 1.30 ft.

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	283	1130	1110	632	966	1660	1250	4320	8970	6970	1910	751
2	271	1130	1080	637	921	1540	1310	5310	8500	5750	1720	730
3	258	1150	1020	620	896	1440	1300	5640	8660	5080	1530	743
4	247	1060	967	600	863	1390	1320	5200	8850	4800	1410	717
5	238	1020	920	587	836	1360	1440	4660	9090	4390	1310	659
6	235	982	932	597	831	1310	1590	4190	9530	4090	1280	612
7	225	905	897	911	842	1260	1820	3720	8510	4240	1200	584
8	226	838	844	3440	828	1210	1910	3330	6970	5330	1160	548
9	224	782	811	4410	784	1160	1940	3070	5810	5500	1140	523
10	225	736	774	3590	759	1140	2050	2870	5520	5150	1230	504
11	329	694	748	2900	756	1210	2260	2800	6310	5670	1300	493
12	351	664	729	2510	711	1300	2500	2930	7440	6140	1240	483
13	433	681	832	2240	702	1220	3430	3440	8950	5880	1210	478
14	440	1810	992	1970	682	1150	6800	3880	10600	5950	1210	473
15	473	4510	929	1760	666	1100	7310	4020	11600	5540	1230	471
16	434	4760	962	1610	658	1070	5960	4040	12200	4830	1180	456
17	410	3590	1130	1480	649	1040	4880	4310	10900	4540	1120	456
18	387	2740	1060	1380	642	998	4150	4840	9340	4220	1030	440
19	387	2260	1020	1320	652	1010	3700	5020	8160	4030	961	421
20	528	2200	960	1280	662	1050	3500	5720	7380	3790	914	411
21	491	2190	908	1240	706	989	3500	6580	7370	3430	875	407
22	540	2100	855	1170	1250	939	3480	6440	8030	3260	848	396
23	828	1960	825	1140	2800	920	3410	5900	8650	3200	833	388
24	828	1740	786	1180	2920	925	3180	5520	8520	3240	843	378
25	772	1580	757	1340	2560	954	3040	5430	8060	3260	854	374
26	744	1440	731	1290	2230	988	2990	5620	8330	3330	858	368
27	732	1320	706	1190	2000	1010	2980	6040	9230	3100	833	367
28	722	1260	696	1120	1800	1010	2950	7220	8930	2700	820	360
29	675	1200	675	1050	---	1040	3100	9100	9080	2510	813	354
30	646	1130	656	1010	---	1070	3440	10200	8800	2350	812	363
31	863	---	646	1000	---	1150	---	9870	---	2170	777	---
TOTAL	14445	49562	26958	47204	31572	35613	92490	161230	258290	134440	34451	14708
MEAN	466	1652	870	1523	1128	1149	3083	5201	8610	4337	1111	490
MAX	863	4760	1130	4410	2920	1660	7310	10200	12200	6970	1910	751
MIN	224	664	646	587	642	920	1250	2800	5520	2170	777	354
AC-FT	28650	98310	53470	93630	62620	70640	183500	319800	512300	266700	68330	29170
CFSM	0.79	2.80	1.47	2.58	1.91	1.94	5.22	8.80	14.6	7.34	1.88	0.83
IN.	0.91	3.12	1.70	2.97	1.99	2.24	5.82	10.15	16.26	8.46	2.17	0.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

	MEAN	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	891	1405	1341	1091	1080	1208	2663	5791	6400	3467	1215	679																																																																																	
MAX	2722	6702	4395	3938	3010	3719	8162	9771	11760	7540	3154	1573																																																																																	
(WY)	1960	1991	1976	1918	1924	1934	1934	1956	1974	1954	1974	1959																																																																																	
MIN	251	236	296	335	306	487	913	2613	1861	886	456	312																																																																																	
(WY)	1943	1937	1953	1929	1929	1917	1917	1915	1915	1941	1941	1942																																																																																	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1911 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1911 - 2002
ANNUAL TOTAL	457216	900963	
ANNUAL MEAN	1253	2468	2273
HIGHEST ANNUAL MEAN			3344
LOWEST ANNUAL MEAN			1133
HIGHEST DAILY MEAN	8380	12200	32900
LOWEST DAILY MEAN	224	224	160
ANNUAL SEVEN-DAY MINIMUM	231	231	205
ANNUAL RUNOFF (AC-FT)	906900	1787000	1647000
ANNUAL RUNOFF (CFSM)	2.12	4.18	3.85
ANNUAL RUNOFF (INCHES)	28.78	56.71	52.26
10 PERCENT EXCEEDS	3020	6360	5850
50 PERCENT EXCEEDS	767	1210	1200
90 PERCENT EXCEEDS	319	476	485