

WENATCHEE RIVER BASIN

12456500 CHIWAHA RIVER NEAR PLAIN, WA

LOCATION.--Lat 47°50'15", long 120°39'40", in SE $\frac{1}{4}$ sec.13, T.27 N., R.17 E., Chelan County, Hydrologic Unit 17020011, on right bank 3/4 mi upstream from Goose Creek, 5.3 mi north of Plain, 6.2 mi upstream from mouth, 11 mi northeast of Chiwaukum, and at mile 6.2.

DRAINAGE AREA.--170 mi².

PERIOD OF RECORD.--May 1911 to October 1914 (published as Chiwawa Creek near Leavenworth), August 1936 to November 1949, August 1954 to September 1957, May 1991 to current year.

REVISED RECORDS.--WSP 1316: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,100 ft above NGVD of 1929 (from river-profile map). May 29, 1911 to Oct. 31, 1914, staff gage at site 3 miles downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. U. S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--30 years (water years 1912-14, 1937-49, 1955-57, 1992-2002), 517 ft³/s, 41.30 in/yr, 374,600 acre-ft/yr. Includes discharges for 1912 and 1913, which were estimated for WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,030 ft³/s Nov. 30, 1995, gage height, 9.36 ft; minimum daily discharge, 45 ft³/s Feb. 25, Mar. 2-5, 1993.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak Nov. 25, 1990, was 6,810 ft³/s, gage height, 9.26 ft, from rating curve extended beyond highest measurement of 5,570 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,470 ft³/s June 16, gage height, 7.52 ft; minimum discharge, 75 ft³/s Oct. 7, 9-10, gage height 3.81 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	85	179	172	110	152	263	232	1180	2450	1750	565	224
2	83	148	167	110	145	248	243	1390	2390	1490	518	221
3	79	e150	161	109	143	236	235	1470	2500	1350	469	223
4	78	e142	157	106	140	226	250	1340	2540	1330	438	205
5	77	e135	153	105	140	224	281	1240	2690	1230	428	188
6	77	e128	153	105	139	220	313	1120	2770	1150	420	180
7	77	e118	148	164	140	213	364	1000	2430	1190	399	176
8	77	e110	143	548	137	206	383	921	2030	1570	380	167
9	76	e102	139	547	132	199	388	866	1730	1510	394	160
10	78	e96	136	427	131	197	414	818	1660	1390	451	155
11	108	e90	133	359	129	206	469	818	1890	1560	460	151
12	102	e86	129	316	128	211	521	874	2190	1660	418	148
13	104	e88	135	284	128	198	739	1020	2580	1560	409	147
14	108	e350	156	261	124	189	1490	1130	2980	1630	407	144
15	105	682	148	240	121	182	1340	1140	3200	1480	426	143
16	98	623	143	226	120	180	1100	1150	3350	1280	390	140
17	94	422	e160	e210	118	177	951	1250	2900	1240	361	137
18	90	335	e150	e200	119	174	840	1380	2460	1160	332	132
19	90	297	e145	191	121	175	783	1410	2140	1120	314	128
20	100	310	e142	191	125	177	768	1570	2000	1090	296	129
21	96	322	e140	191	131	167	797	1730	2050	954	283	126
22	105	306	e138	183	272	162	819	1680	2240	923	273	122
23	177	280	137	179	468	162	796	1560	2390	923	266	118
24	145	245	131	184	419	167	748	1490	2360	946	270	117
25	133	223	124	202	370	177	732	1490	2200	962	266	115
26	127	209	122	194	331	179	744	1530	2280	995	272	115
27	119	192	122	185	300	179	775	1620	2540	893	264	115
28	118	187	121	180	282	178	769	1970	2380	780	253	113
29	108	176	119	174	---	181	818	2500	2510	754	246	109
30	108	174	114	165	---	188	939	2740	2260	701	244	111
31	182	---	112	160	---	211	---	2640	---	651	236	---
TOTAL	3204	6905	4350	6806	5205	6052	20041	44037	72090	37222	11148	4459
MEAN	103	230	140	220	186	195	668	1421	2403	1201	360	149
MAX	182	682	172	548	468	263	1490	2740	3350	1750	565	224
MIN	76	86	112	105	118	162	232	818	1660	651	236	109
AC-FT	6360	13700	8630	13500	10320	12000	39750	87350	143000	73830	22110	8840
CFSM	0.61	1.35	0.83	1.29	1.09	1.15	3.93	8.36	14.1	7.06	2.12	0.87
IN.	0.70	1.51	0.95	1.49	1.14	1.32	4.39	9.64	15.77	8.15	2.44	0.98

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

	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	169	235	186	150	143	190	610	1583	1614	849	287	161																																																																																
MAX	395	973	768	356	602	488	1266	2683	2840	2175	899	359																																																																																
(WY)	1998	1996	1996	1996	1996	1992	1914	1956	1999	1999	1999	1954																																																																																
MIN	63.5	77.8	80.4	78.4	66.1	91.4	214	826	660	256	106	80.5																																																																																
(WY)	1943	1937	2001	1937	2001	1993	1937	1944	1941	1941	1941	1942																																																																																

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1911 - 2002	
ANNUAL TOTAL	100924		221519			
ANNUAL MEAN	277		607		510	
HIGHEST ANNUAL MEAN					783	
LOWEST ANNUAL MEAN					264	
HIGHEST DAILY MEAN	2100	May 25	3350	Jun 16	6050	Nov 30 1995
LOWEST DAILY MEAN	59	Feb 26	76	Oct 9	45	Feb 25 1993
ANNUAL SEVEN-DAY MINIMUM	61	Feb 21	77	Oct 4	46	Feb 28 1993
ANNUAL RUNOFF (AC-FT)	200200		439400		369600	
ANNUAL RUNOFF (CFSM)	1.63		3.57		3.00	
ANNUAL RUNOFF (INCHES)	22.08		48.47		40.78	
10 PERCENT EXCEEDS	687		1670		1430	
50 PERCENT EXCEEDS	145		226		201	
90 PERCENT EXCEEDS	73		110		90	

e Estimated