

## KLICKITAT RIVER BASIN

## 14113000 KLICKITAT RIVER NEAR PITT, WA

LOCATION.--Lat 45°45'24", long 121°12'32", in SW 1/4 sec.8, T.3 N., R.13 E., Klickitat County, Hydrologic Unit 17070106, on left bank 2.8 mi south of Pitt, 4.8 mi southwest of Klickitat, 5.3 mi upstream from Silvias Creek, and at mile 7.0.

DRAINAGE AREA.--1,297 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1909 to January 1912, October 1928 to current year. Published as "at Klickitat" 1909-12 and as "at Pitt" 1928-35.

REVISED RECORDS.--WSP 1348: 1910(M), 1929-33(M), 1934, 1935-38(M), 1940(M), 1942-43(M), 1946(M), 1948(M). WSP 1935: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 288.9 ft above NGVD of 1929 (river-profile survey). July 3, 1909, to Jan. 31, 1912, nonrecording gage at site 7 mi upstream at different datum. Oct. 1, 1928, to Sept. 30, 1935, nonrecording gage at site 3.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Several small diversions upstream from station for irrigation of about 7,500 acres, mostly in vicinity of Glenwood. The largest of these is Hellroaring Irrigation Canal, which at times diverts the entire flow of Hellroaring Creek (tributary to Big Muddy Creek). No regulation. Water temperatures October 1950 to September 1970. Chemical analyses October 1950 to September 1970, October 1975 to September 1986. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--76 years (water years 1909-11, 1929-2002), 1,589 ft<sup>3</sup>/s, 1,151,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,000 ft<sup>3</sup>/s Feb. 8, 1996, gage height, 17.90 ft from high-water mark in well, from rating curve extended above 16,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 14.34 ft; minimum discharge, 412 ft<sup>3</sup>/s Jan. 16, 1979, gage height, 3.81 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan. 08	1230	*6,660	*8.19	Apr. 14	1600	6,020	7.87
Mar. 12	0600	4,190	6.83				

Minimum discharge, 497 ft<sup>3</sup>/s Oct. 6.

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	512	795	889	989	1520	2030	1970	2350	2940	1770	906	715
2	510	696	1090	1120	1440	1900	2090	2620	2790	1620	891	729
3	507	663	1030	1190	1390	1790	2070	2770	2740	1530	876	736
4	512	642	934	1140	1330	1730	2070	2650	2630	1460	870	700
5	506	629	923	1110	1290	1680	2190	2530	2680	1400	842	683
6	509	622	967	1530	1270	1830	2270	2390	2810	1350	827	680
7	509	607	1010	3600	1350	1800	2390	2210	2520	1340	808	688
8	508	594	941	6260	1730	1650	2460	2060	2240	1450	795	683
9	507	590	899	5430	1500	1580	2480	1970	2070	1370	794	686
10	510	584	860	4140	1440	1580	2610	1880	2020	1320	807	685
11	549	578	849	3470	1390	1920	2760	1800	2080	1340	818	690
12	552	578	840	3140	1300	3900	2860	1840	2160	1350	806	694
13	540	614	960	2880	1280	3570	3160	1960	2220	1360	807	694
14	548	1180	2070	2560	1260	3200	5240	2020	2390	1370	813	689
15	547	1240	1590	2280	1220	2910	4950	2030	2520	1290	830	692
16	537	1180	1550	2090	1200	2670	4050	2040	2550	1230	814	682
17	530	975	2320	1950	1180	2450	3510	2100	2370	1210	802	696
18	524	855	2050	1830	1160	2250	3130	2230	2260	1180	781	690
19	522	831	1780	1790	1280	2200	2860	2250	2120	1160	776	690
20	524	1030	1660	1750	1460	2150	2700	2450	1970	1090	769	695
21	522	1020	1520	1770	1490	1980	2610	2540	1900	1070	751	686
22	531	1080	1410	1630	2100	1890	2590	2470	1920	1050	756	678
23	607	1110	1320	1520	3380	1850	2500	2370	1970	1050	753	680
24	607	976	1250	1490	3430	1810	2380	2320	1960	1050	748	681
25	567	890	1190	2060	3010	1780	2340	2310	1880	1040	759	679
26	562	823	1130	2150	2660	1780	2310	2430	1860	1020	750	677
27	559	760	1120	1940	2400	1780	2300	2550	1910	1000	749	672
28	554	807	1090	1800	2230	1760	2220	2720	1910	985	713	669
29	549	791	1050	1670	---	1780	2170	3130	2410	1020	726	690
30	591	817	1010	1620	---	1780	2240	3330	2080	1010	716	695
31	734	---	999	1560	---	1850	---	3160	---	952	707	---
TOTAL	16846	24557	38301	69459	47690	64830	81480	73480	67880	38437	24560	20704
MEAN	543	819	1236	2241	1703	2091	2716	2370	2263	1240	792	690
MAX	734	1240	2320	6260	3430	3900	5240	3330	2940	1770	906	736
MIN	506	578	840	989	1160	1580	1970	1800	1860	952	707	669
AC-FT	33410	48710	75970	137800	94590	128600	161600	145700	134600	76240	48710	41070

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY)

	763	983	1476	1851	2245	2277	2340	2482	1947	1163	833	745
MEAN	763	983	1476	1851	2245	2277	2340	2482	1947	1163	833	745
MAX	1299	2763	6160	7325	8225	6111	4942	5235	4161	2250	1387	1082
(WY)	1998	1910	1934	1974	1996	1910	1943	1956	1974	1974	1999	1997
MIN	501	501	521	524	610	742	866	900	784	603	473	448
(WY)	1945	1994	1931	1979	1994	1977	1977	1992	1994	1994	1994	1994

## SUMMARY STATISTICS

## FOR 2001 CALENDAR YEAR

## FOR 2002 WATER YEAR

## WATER YEARS 1909 - 2002

ANNUAL TOTAL	291153	568224	
ANNUAL MEAN	798	1557	1589
HIGHEST ANNUAL MEAN			2876
LOWEST ANNUAL MEAN			751
HIGHEST DAILY MEAN	2320	Dec 17	40000
LOWEST DAILY MEAN	506	Oct 5	360
ANNUAL SEVEN-DAY MINIMUM	508	Oct 3	395
ANNUAL RUNOFF (AC-FT)	577500	1127000	1151000
10 PERCENT EXCEEDS	1190	2650	3020
50 PERCENT EXCEEDS	713	1350	1150
90 PERCENT EXCEEDS	547	611	638