12101500 PUYALLUP RIVER AT PUYALLUP, WA

LOCATION.--Lat 47°12'31", long 122°19'33", in SE $^1/_4$ NW $^1/_4$ sec.20, T.20 N., R.4 E., Pierce County, Hydrologic Unit 17110014, on left bank 0.8 mi upstream from bridge at Clark Creek, 2.0 mi northwest of Puyallup City Hall, and at mile 6.6.

DRAINAGE AREA.--948 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1914 to current year.

REVISED RECORDS.--WSP 832: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Dec. 3, 1919, at sites 1.2 mi upstream and 900 ft upstream at different datums. Dec. 3, 1919, to Nov. 9, 1935, at site 500 ft upstream at datum 9.61 ft higher.

REMARKS.--Records good. All diverted water returned to river upstream from gage. Large part of flow of White River (a tributary) diverted through Lake Tapps (station 12101000). Flood flow regulated by Mud Mountain Lake (station 12098000) on White River. Some pondage on tributaries and upper Puyallup River. Diurnal fluctuations caused by powerplants and glacial melt upstream from station. U.S. Geological Survey satellite telemeter at station. Chemical analyses October 1958 to September 1968, October 1970 to September 1972, October 1974 to September 1994. Water temperatures July 1959 to September 1961, August 1965 to September 1966.

Since 1912 the City of Tacoma pipeline diversion from Green River has released as much as 123 ft^3/s daily, and from 1957-1990 an average of about 15 ft^3/s per month into Puyallup River 0.5 mi east of McMillin. Since 1990 releases have been minimal.

AVERAGE DISCHARGE.--87 years (water years 1915-2001), 3,328 ft^3/s, 2,411,000 acre-ft/yr, adjusted for storage in Lake Tapps since October 1934, and Mud Mountain Lake, October 1944 to September 1947.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,000 ft^3/s Dec. 10, 1933, elevation, 31.0 ft, present datum; minimum discharge, 306 ft^3/s Sept. 25, 1955, elevation, 8.23 ft; minimum daily discharge, 400 ft^3/s Nov. 30, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,250 ft^3/s Oct. 1, elevation, 15.68 ft; minimum discharge, 711 ft^3/s Oct. 16, elevation, 9.24 ft; minimum daily discharge, 767 ft^3/s Oct. 15.

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	7650	1580	1210	2020	1140	2220	3340	5570	3100	2630	1390	3580
2	4760	1070	1230	2030	1310	1350	4230	4790	3490	2670	1530	3200
3	3570	1520	1200	2300	1390	1200	4130	4230	3820	3020	1710	2760
4	2980	2050	1110	2940	2820	1150	3660	4200	3010	2770	1660	1360
5	2880	2100	1020	3400	3240	1160	3320	4340	2610	2980	1440	1570
6	2750	1730	986	3910	2400	1160	3940	4130	2820	2720	1590	1670
7	2420	1660	962	3580	2150	1150	3280	3940	2920	2590	1820	1400
8	2210	2140	931	3410	2090	1250	3290	3330	2790	2280	1700	1210
9	2570	2330	942	3320	1760	1500	3750	3270	3230	2650	1730	1140
10	2210	2130	902	3190	1560	1400	3660	2870	3330	2500	1790	1530
11	2120	1880	851	2500	1470	1310	4750	2800	5040	2560	1730	1300
12	2060	2210	1950	2250	1380	1270	4220	2010	6970	2790	1800	1720
13	2000	2160	1700	2410	1680	1290	3740	2600	6820	2780	1980	1930
14	888	1460	1920	2490	2590	1420	3210	3360	5580	2380	1990	1690
15	767	1720	986	2630	1810	1400	2030	4870	4920	1560	2000	1500
16	1710	1650	994	2480	2610	1520	1880	5430	3290	2080	2060	1800
17	2500	1660	1760	1910	1560	1680	2220	4660	3440	1970	1990	1580
18	2490	1270	1280	2360	1360	1730	2240	4030	3530	2110	1690	1540
19	2360	788	1150	1760	1280	3670	3020	3480	3230	2140	1430	1180
20	2850	1600	1070	1390	1220	3700	3060	3020	3130	1580	1390	1550
21	2590	1600	1030	1230	1180	3380	3080	3120	2710	1920	1380	1110
22	1750	1620	1070	2040	1170	3120	2590	3270	3270	1510	1940	1170
23	2520	1020	1210	2500	1130	2940	3110	4150	3080	2340	3060	1310
24	2430	1390	1380	1400	1130	1780	3310	4680	3070	2400	2320	1930
25	1850	1130	1270	1680	1110	2140	3260	4400	2860	2550	2180	1290
26	1810	1560	1250	2310	1060	3450	3690	4010	2450	2420	1970	2080
27	1860	2760	2060	1250	1040	3420	4050	4000	2640	2010	2700	1890
28	1180	2160	1500	940	1050	3930	3970	3800	4020	2470	3160	990
29	1050	1500	1320	929	---	3510	2530	3560	3910	1770	3170	900
30	1610	1360	1580	895	---	3350	4330	3150	2980	1950	3370	896
31	1370	---	2120	981	---	3460	---	2530	---	1870	3610	---
TOTAL	73765	50808	39944	68435	45690	67010	100890	117600	108060	71970	63280	48776
MEAN	2380	1694	1289	2208	1632	2162	3363	3794	3602	2322	2041	1626
MAX	7650	2760	2120	3910	3240	3930	4750	5570	6970	3020	3610	3580
MIN	767	788	851	895	1040	1150	1880	2010	2450	1510	1380	896
AC-FT	146300	100800	79230	135700	90630	132900	200100	233300	214300	142800	125500	96750
MEAN†	2206	1602	1582	2023	1767	2259	3308	3896	3596	2326	2028	1624
CFSM†	2.33	1.69	1.67	2.13	1.87	2.38	3.49	4.11	3.79	2.45	2.14	1.71
IN.†	2.68	1.88	1.92	2.46	1.94	2.75	3.89	4.74	4.23	2.83	2.47	1.91
AC-FT†	135700	95270	97320	124400	98110	138900	196800	239600	214900	143100	124700	96600

CAL YR 2000 TOTAL 1008138 MEAN 2754 MAX 7730 MIN 767 AC-FT 2000000 MEAN† 2756 CFSM† 2.91 IN.† 39.56 AC-FT† 2000000
WTR YR 2001 TOTAL 856228 MEAN 2346 MAX 7650 MIN 767 AC-FT 1698000 MEAN† 2353 CFSM† 2.48 IN.† 33.70 AC-FT† 1704000

† Adjusted for change in contents in Lake Tapps.