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.

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.--86 years (water years 1915-2000), 3,339 ft^3/s, 2,419,000 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, 23,500 ft^3/s Nov. 25, 26, elevation, 22.18 ft; minimum discharge, 462 ft^3/s Oct. 2, elevation, 8.83 ft; minimum daily discharge, 548 ft^3/s Oct. 2.

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	1030	2470	7110	4350	4890	3500	1690	3180	4060	3530	2710	1030
2	548	1760	6060	3760	6000	3080	1770	3540	3810	2890	2630	940
3	572	1670	5750	3590	3880	3130	2580	3600	3780	3120	2580	917
4	1740	1710	4290	4630	3400	4220	3350	3530	3780	3340	2330	910
5	e1740	1510	4480	4850	2400	4630	3300	3420	4090	3130	2200	1240
6	1810	1580	4660	3970	2190	3820	3180	3370	4150	2280	2340	1210
7	1870	2110	4890	3720	2730	3480	2770	2700	4170	2490	1750	1400
8	2330	2200	4470	3780	4130	3330	1870	2940	4680	2060	2130	1760
9	2790	2370	3930	4150	4720	3380	1780	3200	4400	2300	2160	1830
10	1320	2360	3530	4530	4140	2850	2820	3810	4280	2990	2190	2740
11	997	2350	3850	4400	4050	2500	2940	3390	4130	2770	2010	3320
12	1540	9560	6810	4120	3870	2510	3080	3430	6200	2310	1280	2310
13	1390	14500	7130	3930	3720	2470	3370	2830	7240	2490	1470	2050
14	1420	9830	6370	3970	3440	2990	5860	2080	6460	2550	1840	2010
15	1290	7200	9170	3470	3480	2940	6570	2720	7730	2450	1820	2190
16	733	5060	15700	3450	3590	3340	5550	3200	6730	1740	1740	1610
17	687	4820	12200	3630	3450	3190	4510	3320	5930	2460	1700	1370
18	1880	4000	11800	3260	3030	3230	4010	2810	5510	2620	1510	1680
19	1920	3250	9730	2930	2900	3580	3900	3360	5130	2570	1380	2570
20	1900	3390	6570	2230	2520	3270	3600	2830	4540	2440	1210	2340
21	1900	3440	4820	2850	2700	3160	3360	3460	4420	2500	1760	2020
22	1780	3690	4720	2810	2880	3510	2560	5180	4520	2660	1750	1150
23	1580	3210	4700	1940	3000	4230	3420	4940	4220	2670	1470	1140
24	1800	3350	4800	2720	2960	3800	3310	4400	4050	2560	1630	914
25	1840	15600	4660	2760	2950	3520	3210	4040	4130	2470	1730	2180
26	2190	20500	4090	2720	1960	3300	3140	3870	4060	2240	1230	2240
27	2130	13800	4070	2650	2620	3130	3100	4030	4100	2100	1100	2170
28	2590	8490	4070	2560	2370	3070	3480	4170	4030	2230	1760	2200
29	3010	7860	3890	1800	2400	2900	3170	4170	4120	2360	1410	1670
30	2380	7710	3890	2340	---	2710	3080	3830	4120	2390	1900	2290
31	2590	---	3720	2430	---	2590	---	4150	---	2630	1730	---
TOTAL	53297	171350	185930	104300	96370	101360	100330	109500	142570	79340	56450	53401
MEAN	1719	5712	5998	3365	3323	3270	3344	3532	4752	2559	1821	1780
MAX	3010	20500	15700	4850	6000	4630	6570	5180	7730	3530	2710	3320
MIN	548	1510	3530	1800	1960	2470	1690	2080	3780	1740	1100	910
AC-FT	105700	339900	368800	206900	191100	201000	199000	217200	282800	157400	112000	105900
MEAN†	1398	6003	5976	3137	3262	2976	3728	3838	4735	2566	1805	1686
CFSM†	1.47	6.33	6.30	3.31	3.44	3.14	3.93	4.04	4.99	2.71	1.90	1.78
IN.†	1.70	7.06	7.27	3.82	3.71	3.62	4.39	4.66	5.57	3.12	2.20	1.98
AC-FT†	85960	357100	367500	192900	187700	183000	221800	235400	281700	157800	111000	100300

CAL YR 1999 TOTAL 1435889 MEAN 3934 MAX 20500 MIN 548 AC-FT 2848000 MEAN† 3943 CFSM† 4.16 IN.† 56.47 AC-FT† 2855000
WTR YR 2000 TOTAL 1254198 MEAN 3427 MAX 20500 MIN 548 AC-FT 2488000 MEAN† 3420 CFSM† 3.61 IN.† 49.09 AC-FT† 2482000

† Adjusted for change in contents in Lake Tapps.
e Estimated