

PUYALLUP RIVER BASIN

1

12098500 WHITE RIVER NEAR BUCKLEY, WA

LOCATION.--Lat 47°09'05", long 121°56'55", in SW 1/4 NW 1/4 sec.8, T.19 N., R.7 E., King County, Hydrologic Unit 17110014, on right bank 0.4 mi upstream from Red Creek, 1.7 mi downstream from Mud Mountain Dam, 3.8 mi east of Buckley, 7.4 mi downstream from Clearwater River and at mile 27.9.

DRAINAGE AREA.--401 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1928 to November 1933, October 1938 to current year.

REVISED RECORDS.--WSP 1247: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (Corps of Engineers bench mark). Oct. 26 to Dec. 9, 1928, nonrecording gage, and Dec. 9, 1928, to Nov. 30, 1933, water-stage recorder at site 3.0 mi upstream at different datum. Nov. 26, 1938, to Feb. 14, 1939, nonrecording gage at present site and datum.

REMARKS.--Records fair. Flow regulated by Mud Mountain Lake (station 12098000) for flood control. Storage is not retained and observed annual runoff closely represents natural runoff of basin. No diversion upstream from station. Chemical analyses July 1981; water temperatures March 1971 to September 1972; sediment records November 1971 to November 1972. U.S. Geological Survey satellite telemeter at station.

COOPERATION.--Water-stage recorder inspected by employees of Corps of Engineers.

AVERAGE DISCHARGE.--69 years (water years 1929-33, 1939-2002), 1,439 ft<sup>3</sup>/s, 48.73 in/yr, 1,043,000 acre-ft/yr, adjusted for storage since December 1943.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft<sup>3</sup>/s Feb. 26, 1932, gage height, 17.5 ft, site and datum then in use, from rating curve extended above 3,500 ft<sup>3</sup>/s; probably no flow for part of each day Oct. 1, 2, 7, 8, Nov. 14, Dec. 1, 5, 15, 1958; Jan. 3, Mar. 24, June 8, Aug. 19, 1959; minimum daily discharge, 59 ft<sup>3</sup>/s June 25, 1957, Mar. 26, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1933 reached a stage of 23.4 ft, from floodmarks, at former site, discharge, 28,000 ft<sup>3</sup>/s, from rating curve extended above 3,500 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,720 ft<sup>3</sup>/s Jan. 8, elevation, 806.02 ft; minimum discharge 282 ft<sup>3</sup>/s Dec. 12.

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	403	1350	1380	723	1120	1300	e1110	2010	3240	2380	1030	e881
2	410	1180	1370	780	1060	1180	e1180	2320	2970	2140	989	797
3	402	1000	1200	798	1040	1100	e1120	2250	2840	2010	936	e753
4	406	857	1060	758	998	1060	e1240	2040	2800	1870	935	694
5	390	924	999	739	979	1080	e1590	1920	3140	1750	881	619
6	383	787	1070	815	973	1050	e1760	1790	3330	1680	847	574
7	369	705	1020	4320	1060	971	1550	1650	2720	1790	809	559
8	398	648	954	6850	1150	932	e1440	1540	2220	2000	796	520
9	404	616	1000	6880	1080	908	2100	1490	1840	1830	812	502
10	397	593	952	5150	1040	899	2150	1430	1730	1840	864	e476
11	597	575	891	3200	1050	1500	2890	1400	1960	1990	872	e522
12	494	586	927	2890	968	2500	3220	1470	2320	1990	848	e524
13	684	751	2470	2630	932	1950	3550	1800	2880	2000	899	e546
14	848	3340	4480	2270	901	1650	4950	2010	3620	1860	930	594
15	695	5250	2500	1950	890	1470	5260	1970	3910	1660	908	e613
16	587	3820	3320	1520	904	1320	5410	1900	3560	1520	887	607
17	530	2830	4860	853	902	1200	5120	1960	2870	1510	860	e602
18	466	1860	2870	2510	944	1090	4060	2070	2620	1480	811	e516
19	508	1640	1890	1450	1020	1310	2240	2120	2320	1450	795	e560
20	552	2320	1500	1560	1070	2190	2070	2570	2090	1350	797	e626
21	519	1910	1250	1600	1860	1760	1950	2800	2210	1260	766	e502
22	627	1970	1090	1360	3860	1470	1870	2810	2460	1270	777	e489
23	1130	3230	990	1240	3710	1370	1770	2610	2550	1350	786	e507
24	862	2450	915	1550	3180	1360	1660	2440	2250	1350	795	e524
25	954	1960	860	2500	2440	1450	1620	2500	2220	1320	835	e505
26	866	1580	816	2090	1980	1490	1640	2760	2490	1320	813	e502
27	805	1330	786	1660	1680	1420	1710	3060	2760	1210	802	e463
28	707	1290	797	1390	1480	1340	1610	3550	2790	1140	e870	e511
29	623	1460	759	1220	---	1320	1610	4170	4090	1280	e802	e469
30	648	1310	730	1210	---	1250	1720	4160	3020	1340	e778	e494
31	1300	---	742	1200	---	1240	---	3710	---	1140	e771	---
TOTAL	18964	50122	46448	65666	40271	42130	71170	72280	81820	50080	26301	17051
MEAN	612	1671	1498	2118	1438	1359	2372	2332	2727	1615	848	568
MAX	1300	5250	4860	6880	3860	2500	5410	4170	4090	2380	1030	881
MIN	369	575	730	723	890	899	1110	1400	1730	1140	766	463
AC-FT	37620	99420	92130	130200	79880	83560	141200	143400	162300	99330	52170	33820
MEAN†	613	1669	1498	2117	1440	1357	2374	2335	2727	1613	848	569
CFSM†	1.53	4.16	3.74	5.28	3.59	3.38	5.92	5.82	6.80	4.02	2.11	1.42
IN.†	1.76	4.64	4.31	6.09	3.74	3.90	6.60	6.71	7.58	4.64	2.44	1.58
AC-FT†	37690	99260	92130	130200	79970	83470	141200	143600	162200	99210	52170	33820

CAL YR 2001 TOTAL 417767 MEAN 1145 MAX 5250 MIN 248 AC-FT 828600 MEAN† 1144 CFSM† 2.85 IN.† 38.74 AC-FT† 828500  
WTR YR 2002 TOTAL 582303 MEAN 1595 MAX 6880 MIN 369 AC-FT 1155000 MEAN† 1595 CFSM† 3.98 IN.† 54.01 AC-FT† 1155000

† Adjusted for change in contents in Mud Mountain Lake.  
e Estimated