

PUYALLUP RIVER BASIN

12101100 LAKE TAPPS DIVERSION AT DIERINGER, WA

LOCATION.--Lat 47°14'18", long 122°13'37", in SW 1/4 NW 1/4 sec.7, T.20 N., R.5 E., Pierce County, Hydrologic Unit 17110014, on right bank 850 ft downstream from White River Powerplant at Dieringer, and 1,400 ft upstream from mouth.

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 42.36 ft above NGVD of 1929 (levels by Puget Sound Power and Light Co.). Prior to September 30, 1990, at same site at datum 5.00 ft higher.

REMARKS.--No estimated daily discharges. Records good except for discharges below 15 ft³/s, which are fair. Flow regulated by White River Powerplant. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--44 years (water years 1959-2002), 944 ft³/s, 684,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s Jan. 29, 1965, gage height, 6.23 ft, datum then in use; maximum gage height, 12.44 ft Dec. 1, 1995 (backwater from White River); no flow many days in July and August 1990, Sept. 29, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,180 ft³/s June 13, gage height, 9.63 ft; minimum discharge, 2.0 ft³/s Aug. 14-16, 18, 19, 21, 25.

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	1020	651	1130	1030	1510	1400	1350	1410	2050	1960	846	23
2	998	730	1260	990	1370	1400	1100	1410	2050	1960	29	284
3	945	652	1140	34	34	1400	1030	1410	2060	1620	29	515
4	983	738	1170	1110	895	1400	1110	1400	2060	1620	29	467
5	955	679	1140	1150	52	1410	1040	1400	2070	1620	29	604
6	729	683	1170	967	1020	1200	63	1400	2070	1620	29	572
7	29	939	666	1250	890	1080	855	1400	2050	1170	25	27
8	703	1240	884	1650	997	1050	1060	1390	1690	1880	17	435
9	658	739	587	1230	939	890	1150	1400	1660	1660	17	27
10	741	784	1140	1560	950	24	1410	1420	1940	1580	17	27
11	986	831	1200	1540	1060	888	1410	1420	1940	1590	17	456
12	701	441	569	893	1040	1030	1400	1420	2010	1160	17	259
13	29	876	1320	1060	1080	1100	1410	1420	1950	1470	11	29
14	29	1110	1530	1000	81	1150	1410	1420	1970	1470	2.5	29
15	1080	1170	1850	1020	29	1330	1400	1420	1940	1470	2.2	29
16	984	1150	1870	1070	29	81	1400	1400	1860	1180	2.3	271
17	1280	1190	1890	646	865	27	1390	1350	1900	1120	2.6	547
18	990	26	1890	955	1130	996	1410	762	2000	1430	2.5	663
19	415	240	1920	166	1200	1170	1400	656	2000	1440	2.5	27
20	458	1200	1910	1020	959	1410	1400	1220	2010	1440	2.6	27
21	29	1070	1890	1240	956	1400	1400	1480	1770	477	2.5	27
22	1140	529	1780	1560	53	1410	1400	1480	1910	887	2.6	532
23	1070	526	1840	1180	32	1410	1400	1780	1660	1410	2.6	225
24	1260	576	1830	1010	1280	1410	1400	1780	1660	1130	2.6	27
25	1070	434	1790	1190	1430	1370	1420	2000	1740	875	2.4	27
26	1140	938	1690	1550	1090	1070	1420	1950	1780	969	208	578
27	1030	812	1080	1550	1150	1070	1420	1970	1760	134	754	27
28	1250	1140	1030	1550	1400	963	1420	2050	1970	1420	404	27
29	1280	636	867	1520	---	1140	1430	2050	1970	1150	484	587
30	1130	608	470	1070	---	1400	1420	2040	1960	1110	480	1340
31	1050	---	1500	1200	---	1400	---	2040	---	918	23	---
TOTAL	26162	23338	42003	34961	23521	34479	38328	47138	57460	40940	3494.9	8715
MEAN	844	778	1355	1128	840	1112	1278	1521	1915	1321	113	290
MAX	1280	1240	1920	1650	1510	1410	1430	2050	2070	1960	846	1340
MIN	29	26	470	34	29	24	63	656	1660	134	2.2	23
AC-FT	51890	46290	83310	69350	46650	68390	76020	93500	114000	81200	6930	17290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

	MEAN	619	895	1084	1184	1102	1067	1089	1054	1244	929	577	527
MAX	1443	1516	1719	1939	1819	1545	1716	1715	1925	1807	1018	1251	
(WY)	1960	1959	1967	1967	1970	1961	1966	1961	2000	1999	1983	1974	
MIN	163	200	135	480	159	376	298	261	415	6.09	5.88	8.11	
(WY)	1988	1988	2001	1993	2001	1989	1971	1972	1972	1988	1988	1988	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1958 - 2002

ANNUAL TOTAL	292134.09	380539.9	
ANNUAL MEAN	800	1043	944
HIGHEST ANNUAL MEAN			1232
LOWEST ANNUAL MEAN			654
HIGHEST DAILY MEAN	2030	Jun 14	2210
LOWEST DAILY MEAN	0.51	Aug 8	0.00
ANNUAL SEVEN-DAY MINIMUM	0.55	Aug 8	0.00
ANNUAL RUNOFF (AC-FT)	579400	754800	684100
10 PERCENT EXCEEDS	1590	1870	1640
50 PERCENT EXCEEDS	884	1130	960
90 PERCENT EXCEEDS	17	29	87