

PUYALLUP RIVER BASIN

12100496 WHITE RIVER NEAR AUBURN, WA

LOCATION.--Lat 47°15'58", long 122°13'43", in SE 1/4 NE 1/4 sec.36, T.21 N., R.4 E., King County, Hydrologic Unit 17110014, on left bank 100 ft downstream from railroad bridge, 2.7 mi upstream from the White River Power Plant tailrace, 2.9 mi south of Auburn, and at mile 6.3.

DRAINAGE AREA.--464 mi².

PERIOD OF RECORD.--October 1987 to September 1989, October 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929.

REMARKS.--Records fair except estimated daily discharges, which are poor. Since November 1911, White River Canal (station 12099000) has diverted from left bank 18.0 mi upstream for storage in Lake Tapps (station 12101000). Water is returned to White River 2.7 mi downstream via the Lake Tapps Diversion (station 12101100) after power development at White River Powerplant at Dieringer. Since 1942, flow regulated by Mud Mountain Lake (station 12098000) for flood control. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--14 years (water years 1988-89, 1991-2002), 681 ft³/s, 493,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s Feb. 10, 1996, elevation, 83.15 ft; minimum discharge, 89 ft³/s Feb. 17, 18, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,840 ft³/s Jan. 9, elevation, 82.57 ft; minimum daily discharge, 133 ft³/s Nov. 3.

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	297	200	756	e229	336	439	e568	e581	e1450	e740	e409	e419
2	277	143	741	e232	319	437	e602	e673	e1220	e560	e477	e417
3	280	133	707	e227	316	435	e608	e570	e1080	e500	1000	e419
4	279	146	625	e227	303	435	e615	e551	e1040	e494	994	e409
5	272	181	602	e227	308	439	e635	e546	e1280	e494	951	e415
6	270	163	439	e239	312	439	e635	e538	e1550	e511	932	e407
7	275	160	268	1940	331	437	e750	e541	e1050	e499	901	e403
8	286	153	229	6020	e318	435	e900	e535	750	e492	886	e401
9	279	152	236	6820	e316	434	e722	e532	495	e499	897	e409
10	290	152	243	3730	327	437	e722	e530	383	e535	942	e417
11	293	153	268	2080	319	481	e1100	e538	415	e610	962	e415
12	274	165	239	1720	309	600	e1360	e549	e693	e553	936	e419
13	280	190	650	1470	306	492	e1610	e554	e1000	e809	973	e415
14	299	1990	2690	1330	302	466	2960	e551	e1620	e795	1010	e417
15	290	3890	786	1190	296	460	3200	e543	e1860	e584	1020	e411
16	276	4510	1100	978	286	460	3530	e535	e1700	e468	983	e410
17	277	2540	3130	e378	279	463	3670	e541	e1260	e425	954	e416
18	272	1800	1310	e969	289	460	2760	e546	e906	e427	912	e410
19	278	1340	581	373	295	510	1100	e541	e966	e418	894	e414
20	275	1530	315	316	298	e650	1610	e776	e1350	e402	900	e421
21	280	1170	e267	337	353	533	e663	e1000	e787	e493	875	e401
22	282	1240	e251	291	e1480	489	e616	e1040	e842	e527	880	e408
23	301	1860	e244	239	e1550	475	e589	e1170	e1310	e420	887	e416
24	287	1280	e239	264	e1150	470	e568	e940	e981	e418	898	e416
25	302	921	e234	559	525	468	e554	e769	e837	e427	e698	e413
26	278	789	e229	420	e368	460	e549	e899	e896	e432	e405	e408
27	309	676	e229	321	e372	452	e576	e1160	e951	e414	e411	e407
28	280	735	e231	281	e380	451	e538	e1650	e1080	e409	e411	e410
29	271	848	e229	256	---	449	e549	e2240	e2270	e420	e411	e409
30	283	761	e229	273	---	447	e565	e2230	1380	e411	e399	e398
31	341	---	e232	299	---	445	---	e1820	---	e407	e401	---
TOTAL	8833	29971	18529	34235	12343	14548	35424	26189	33402	15593	24609	12350
MEAN	285	999	598	1104	441	469	1181	845	1113	503	794	412
MAX	341	4510	3130	6820	1550	650	3670	2240	2270	809	1020	421
MIN	270	133	229	227	279	434	538	530	383	402	399	398
AC-FT	17520	59450	36750	67910	24480	28860	70260	51950	66250	30930	48810	24500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	294	996	1113	839	1087	539	691	690	744	426	465	325			
MAX	537	2835	3794	2371	4575	1426	1415	2200	1798	1277	873	560			
(WY)	1998	1996	1996	1997	1996	1997	1991	1997	1997	1988	1991	1988			
MIN	165	168	188	202	176	193	188	170	189	214	246	160			
(WY)	1992	1994	1994	2001	1994	1992	1995	1992	1992	1998	1994	1989			

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1988 - 2002
ANNUAL TOTAL	160290	266026	
ANNUAL MEAN	439	729	681
HIGHEST ANNUAL MEAN			1411
LOWEST ANNUAL MEAN			243
HIGHEST DAILY MEAN	4510	Nov 16	6820
LOWEST DAILY MEAN	133	Nov 3	133
ANNUAL SEVEN-DAY MINIMUM	154	Nov 2	154
ANNUAL RUNOFF (AC-FT)	317900	527700	493500
10 PERCENT EXCEEDS	574	1370	1520
50 PERCENT EXCEEDS	394	475	300
90 PERCENT EXCEEDS	209	266	170

e Estimated