

YAKIMA RIVER BASIN

1

12500450 YAKIMA RIVER ABOVE AHTANUM CREEK, AT UNION GAP, WA

LOCATION.--Lat 46°32'04", long 120°27'58", in NW 1/4 NE 1/4 sec.17, T.12 N., R.19 E., Yakima County, Hydrologic Unit 17030003, on left bank 2,200 ft upstream from Ahtanum Creek, 0.8 mi upstream from Wapato Dam, 1.4 mi southeast of Union Gap, and at about mile 107.3.

DRAINAGE AREA.--3,479 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft above NGVD of 1929; gage readings have been reduced to elevations above NGVD of 1929. Prior to Apr. 4, 1967, at site 1,200 ft downstream at same datum.

REMARKS.--Records fair. Diversions upstream from station for irrigation of about 212,000 acres. Flow partly regulated by Keechelus, Kachess, Cle Elum, Bumping, and Rimrock Lakes. Records at this site plus those for Ahtanum Creek at Union Gap (station 12502500) are equivalent to discontinued station 12503000, Yakima River at Union Gap. Chemical analyses, water years 1969, 1971, March 1975 to September 1993. Water temperature, March 1981 to December 1981.

AVERAGE DISCHARGE.--36 years (water years 1967-2002), 3,617 ft³/s, 2,621,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,300 ft³/s Feb. 9, 1996, elevation, 953.88 ft, from high-water mark, from rating curve extended above 18,000 ft³/s on basis of discharge information provided by the Bureau of Reclamation for their station on the Yakima River near Parker; minimum daily discharge, 300 ft³/s Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,900 ft³/s April 15, elevation, 945.73 ft; minimum discharge, 888 ft³/s Oct. 21, 22.

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	1840	1140	1380	1220	2010	2850	2930	5070	e11800	8200	3900	3380
2	1870	1260	1410	1220	1970	2680	3280	6400	e11800	6040	3810	3490
3	1850	1270	1380	1220	1910	2540	3270	6850	e11600	4240	3800	3270
4	1840	1250	1300	1190	1870	2490	3090	6220	e11200	3880	3810	3080
5	1850	1220	1250	1170	1830	2450	3300	5540	10900	4400	3820	2970
6	1810	1190	1240	1180	1820	2470	3630	4850	11100	4110	3790	2970
7	1800	1160	1240	1590	1830	2430	4040	4210	10700	3960	3730	2960
8	1860	1140	1240	5790	1900	2300	4180	3690	9940	4220	3610	2870
9	1880	1110	1210	7310	1850	2240	4110	3490	9190	4150	3530	2830
10	1850	1090	1190	5920	1790	2210	4280	3430	8360	4000	3680	2750
11	1830	1070	1180	5080	1750	2220	4620	3290	7760	3930	3680	2620
12	1850	1040	1160	4550	1710	2830	5060	3440	7360	3890	3630	2580
13	1830	1030	1160	4290	1660	3070	5870	4030	7570	3910	3460	2620
14	1820	1110	1610	4000	1650	2860	11500	4650	9130	4000	3490	2640
15	1790	2790	1880	3630	1640	2690	13800	4740	11300	3960	3470	2720
16	1770	2720	1690	3350	1630	2590	9240	4630	12100	3810	3520	2770
17	1420	2260	1950	3180	1620	2460	6970	4550	11600	3810	3560	2770
18	1100	1900	2310	2860	1620	2200	5520	4920	9650	3980	3600	2680
19	989	1710	2040	2670	1630	2010	4770	5230	8520	4000	3670	2660
20	926	1730	1880	2560	1650	2070	4390	6160	7560	3990	3720	2640
21	893	1760	1720	2550	1680	2140	4380	7240	6810	3890	3680	2620
22	913	1770	1600	2430	2180	2030	4350	6890	6830	3940	3660	2630
23	984	1770	1510	2340	4090	2000	4120	6340	7220	3810	3530	2620
24	1050	1760	1460	2320	4700	2020	3770	6010	7740	4020	3390	2590
25	1140	1650	1410	2470	4270	2130	3420	6220	7880	3970	3380	2610
26	1140	1550	1360	2660	3750	2270	3460	6660	7420	3870	3360	2640
27	1100	1460	1330	2470	3360	2410	4010	7350	7720	3920	3320	2670
28	1050	1470	1300	2330	3100	2370	4140	8090	8200	3920	3380	2600
29	1040	1430	1280	2200	---	2390	4080	9580	8150	3930	3350	2610
30	1050	1370	1260	2130	---	2480	4320	10800	8800	3840	3350	2620
31	1050	---	1230	2060	---	2620	---	e11200	---	3870	3430	---
TOTAL	45185	45180	45160	89940	62470	74520	147900	181770	275910	129460	111110	83480
MEAN	1458	1506	1457	2901	2231	2404	4930	5864	9197	4176	3584	2783
MAX	1880	2790	2310	7310	4700	3070	13800	11200	12100	8200	3900	3490
MIN	893	1030	1160	1170	1620	2000	2930	3290	6810	3810	3320	2580
AC-FT	89620	89610	89570	178400	123900	147800	293400	360500	547300	256800	220400	165600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

MEAN	1710	1915	2892	2928	3540	3895	4720	6114	5888	3792	3349	2683
MAX	2574	5354	11200	7490	14290	14340	12780	15160	13410	6878	4123	3355
(WY)	1998	1991	1976	1976	1996	1972	1972	1997	1974	1974	1974	1974
MIN	896	710	882	540	889	752	1608	2475	2480	2650	2351	1411
(WY)	1980	1988	1994	1979	1977	1977	1977	1977	2001	2001	1979	1979

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	683224		1292085			
ANNUAL MEAN	1872		3540		3617	
HIGHEST ANNUAL MEAN					6622	
LOWEST ANNUAL MEAN					1884	
HIGHEST DAILY MEAN	3820	May 25	13800	Apr 15	44000	Feb 9 1996
LOWEST DAILY MEAN	893	Oct 21	893	Oct 21	300	Jan 1 1979
ANNUAL SEVEN-DAY MINIMUM	979	Oct 18	979	Oct 18	387	Dec 31 1978
ANNUAL RUNOFF (AC-FT)	1355000		2563000		2621000	
10 PERCENT EXCEEDS	2740		7330		6910	
50 PERCENT EXCEEDS	1770		2830		3000	
90 PERCENT EXCEEDS	1050		1230		1250	

e Estimated