

YAKIMA RIVER BASIN

12508990 YAKIMA RIVER AT MABTON, WA

LOCATION.--Lat 46°13'53", long 119°59'54", in SW 1/4 SW 1/4 sec.30, T.9 N., R.23 E., Yakima County, Hydrologic Unit 17030003, on right bank at highway bridge, at east boundary of Yakama Nation Reservation, 1.1 mi north of Mabton, and at mile 59.8.

DRAINAGE AREA.--5,359 mi².

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 643 ft above sea level, from topographic map. Prior to Oct. 1, 1976, at datum 10 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow affected by storage in five reservoirs, by diversions upstream from station for irrigation upstream and downstream from station of about 424,000 acres, and by return flow. Water temperatures March 1981 to February 1982.

AVERAGE DISCHARGE.--31 years (water years 1971-2001), 3,418 ft³/s, 2,476,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,500 ft³/s Feb. 10, 1996, gage height, 28.18 ft present datum, from high-water mark; minimum daily discharge, 320 ft³/s Mar. 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,790 ft³/s May 27, gage height, 11.79 ft; minimum discharge, 657 ft³/s July 25, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	2100	1860	1640	1580	1580	1790	1760	1220	1080	903	868
2	2330	2100	1850	1630	1570	1600	1820	1590	1290	915	861	878
3	2320	2110	1840	1620	1560	1610	1700	1310	1630	778	879	942
4	2250	2030	1840	1610	1600	1610	1580	1070	1690	736	831	977
5	2050	2030	1830	1600	1590	1630	1500	939	1530	753	823	903
6	1940	2080	1820	1630	1630	1630	1430	1180	1410	886	890	887
7	1920	2080	1800	1690	1640	1660	1370	1310	1620	916	941	868
8	1900	2090	1800	1690	1600	1700	1330	1220	1570	831	810	843
9	1870	2120	1790	1690	1560	1810	1260	1270	1520	802	777	869
10	1850	2100	1780	1680	1610	1940	1230	1400	1600	807	780	882
11	1890	2050	1770	1660	1600	1940	1280	1420	1580	781	796	905
12	1940	2020	1740	1670	1590	1900	1360	1400	1620	752	803	855
13	1820	1990	1670	1670	1560	1820	1280	1500	1970	768	811	857
14	1780	1990	1610	1680	1550	1870	1170	2070	1940	809	795	849
15	1800	1990	1590	1680	1570	2000	1110	2460	1720	781	776	878
16	1950	1950	1680	1660	1560	2000	1130	2380	1440	802	764	898
17	2380	1930	1650	1600	1560	1970	1130	2160	1210	852	778	911
18	2330	1930	1730	1570	1550	1800	1160	1960	1220	824	800	918
19	2140	1920	1710	1630	1550	1640	1180	1630	1160	830	844	952
20	2060	1900	1710	1660	1560	1800	1110	1440	1060	799	910	913
21	2420	1910	1740	1660	1550	1970	916	1440	992	846	906	927
22	2500	1890	1810	1660	1550	1830	891	1390	999	927	905	963
23	2420	1860	1800	1670	1550	1740	1020	1360	937	915	996	936
24	2380	1850	1730	1650	1550	1700	1120	1800	925	819	1110	893
25	2350	1860	1680	1630	1560	1790	1020	2550	993	696	1090	1040
26	2290	1890	1660	1620	1570	1920	1130	2700	1070	693	1010	1370
27	2230	1870	1670	1540	1560	2210	1580	2730	1100	742	947	1300
28	2190	1860	1650	1490	1560	2240	2170	2430	1360	712	926	1260
29	2170	1860	1640	1510	---	2050	2410	2100	1500	778	853	1130
30	2160	1870	1640	1560	---	1900	2140	1740	1320	865	866	1080
31	2140	---	1640	1570	---	1820	---	1450	---	894	880	---
TOTAL	65810	59230	53730	50520	44040	56680	41317	53159	41196	25389	27061	28752
MEAN	2123	1974	1733	1630	1573	1828	1377	1715	1373	819	873	958
MAX	2500	2120	1860	1690	1640	2240	2410	2730	1970	1080	1110	1370
MIN	1780	1850	1590	1490	1550	1580	891	939	925	693	764	843
AC-FT	130500	117500	106600	100200	87350	112400	81950	105400	81710	50360	53680	57030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001			
MEAN	1894	2480	3710	4039	4771	5054	4799	4981	4234	1911	1525	1721																						
MAX	2532	5144	12030	9554	17760	16580	13350	14110	12610	5320	2155	2309																						
(WY)	1973	1991	1976	1974	1996	1972	1972	1997	1972	1974	1976	1978																						
MIN	856	1333	1427	1214	1019	543	607	936	1014	658	755	814																						
(WY)	1980	1988	1994	1979	1977	1977	1977	1977	1994	1994	1979	1979																						

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1971 - 2001
ANNUAL TOTAL	1119760	546884	
ANNUAL MEAN	3059	1498	3418
HIGHEST ANNUAL MEAN			6566
LOWEST ANNUAL MEAN			1215
HIGHEST DAILY MEAN	9080	Apr 15	44000
LOWEST DAILY MEAN	1440	Aug 2	320
ANNUAL SEVEN-DAY MINIMUM	1500	Aug 2	344
ANNUAL RUNOFF (AC-FT)	2221000		2476000
10 PERCENT EXCEEDS	5680		7250
50 PERCENT EXCEEDS	2380		2200
90 PERCENT EXCEEDS	1640		1260