

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 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Elevation of gage is 643 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1976, at datum 10 ft higher.

REMARKS.--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.--32 years (water years 1971-2002), 3,408 ft<sup>3</sup>/s, 2,469,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 49,500 ft<sup>3</sup>/s Feb. 10, 1996, gage height, 28.18 ft present datum, from high-water mark; minimum daily discharge, 320 ft<sup>3</sup>/s Mar. 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,100 ft<sup>3</sup>/s Apr. 16, gage height, 17.07 ft; minimum discharge, 840 ft<sup>3</sup>/s Oct. 5.

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	1040	1530	1940	1900	2770	4220	3240	3470	9850	6410	1440	1470
2	955	1710	1960	1930	2690	3910	3490	4240	9880	5220	1530	1500
3	928	1750	2100	1920	2580	3670	3670	5370	9610	3460	1520	1580
4	875	1740	2010	1930	2510	3490	3590	5430	9280	2280	1530	1620
5	858	1710	1920	1900	2440	3380	3560	4860	9200	2040	1590	1590
6	871	1670	1880	1910	2410	3380	3850	4300	9280	2210	1590	1580
7	854	1630	1850	2800	2390	3380	4110	3690	9400	1940	1560	1620
8	869	1600	1860	e6000	2460	3250	4500	3140	8800	1840	1520	1640
9	917	1560	1840	e11000	2450	3110	4420	2660	8210	1950	1450	1620
10	940	1520	1810	e9000	2380	3040	4400	2490	7410	1810	1460	1560
11	922	1490	1780	e8000	2310	2990	4580	2300	6600	1680	1730	1490
12	891	1460	1770	e7000	2270	3670	4890	2130	5920	1570	1620	1380
13	957	1440	1750	e6600	2190	4310	5270	2280	5540	1490	1490	1340
14	937	1430	2200	e6000	2160	4210	6750	2820	5980	1470	1290	1380
15	957	1770	2740	e5400	2170	4010	11900	3250	7670	1540	1270	1390
16	1000	3200	2720	e5000	2150	3810	13200	3270	9560	1490	1270	1440
17	1250	3040	2930	e4600	2130	3670	9460	3130	10100	1380	1310	1500
18	1380	2650	3300	e4200	2130	3500	7030	3150	9110	1340	1390	1510
19	1380	2400	e3280	3770	2110	2820	5590	3610	7110	1440	1460	1460
20	1430	2300	3040	3530	2180	2740	4880	4160	6030	1490	1500	1460
21	1360	2310	2810	3390	2250	2890	4510	5210	5170	1510	1500	1480
22	1300	2320	2570	3320	2570	2890	4270	5780	4620	1500	1480	1490
23	1260	2290	2430	3180	3940	2750	3990	5380	4770	1520	1480	1540
24	1380	2340	2310	3040	5880	2690	3450	4950	5160	1440	1440	1510
25	1540	2330	2220	3020	5840	2690	3100	4730	5420	1570	1400	1480
26	1630	2210	2140	3260	5340	2670	2830	4990	5150	1450	1400	1480
27	1590	2100	2080	3350	4890	2880	2890	5520	5000	1380	1390	1530
28	1530	2040	2030	3140	4520	2950	3340	6150	5320	1410	1360	1560
29	1490	2030	1990	e3000	---	2900	3330	7110	5750	1440	1370	1500
30	1500	1960	1960	2870	---	2960	3250	8680	6010	1450	1350	1540
31	1490	---	1930	2830	---	3040	---	9620	---	1390	1380	---
TOTAL	36281	59530	69150	128790	82110	101870	147340	137870	216910	60110	45070	45240
MEAN	1170	1984	2231	4155	2932	3286	4911	4447	7230	1939	1454	1508
MAX	1630	3200	3300	11000	5880	4310	13200	9620	10100	6410	1730	1640
MIN	854	1430	1750	1900	2110	2670	2830	2130	4620	1340	1270	1340
AC-FT	71960	118100	137200	255500	162900	202100	292200	273500	430200	119200	89400	89730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

MEAN	1871	2465	3664	4043	4715	4999	4802	4964	4328	1911	1522	1714
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1971 - 2002

ANNUAL TOTAL	533075	1130271	
ANNUAL MEAN	1460	3097	3408
HIGHEST ANNUAL MEAN			6566
LOWEST ANNUAL MEAN			1215
HIGHEST DAILY MEAN	3300	13200	44000
LOWEST DAILY MEAN	693	854	320
ANNUAL SEVEN-DAY MINIMUM	758	882	344
ANNUAL RUNOFF (AC-FT)	1057000	2242000	2469000
10 PERCENT EXCEEDS	2120	5940	7220
50 PERCENT EXCEEDS	1520	2310	2200
90 PERCENT EXCEEDS	845	1380	1270

e Estimated