

12502500 AHTANUM CREEK AT UNION GAP, WA

LOCATION.--Lat 46°32'08", long 120°28'20", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.12 N., R.19 E., Yakima County, Hydrologic Unit 17030003, on right downstream wingwall of Union Pacific Railway bridge at Union Gap, 1.0 mi south of town of Union Gap, and at mile 0.6.

DRAINAGE AREA.--173 mi².

PERIOD OF RECORD.--May to November 1904, August 1907 to July 1908, March to October 1910, April 1911 to September 1914, May 1951 to April 1953, August 1960 to current year. Published as "near Yakima" 1904, 1907-08, 1910-12. Records for water years 1913-14 are published in WSP 1286.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 940 ft above sea level, from topographic map. Prior to Sept. 30, 1914, nonrecording gage at approximately same site at various datums. May 12, 1951, to Sept. 30, 1972, water-stage recorder at present site at datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Extreme high flows may include transbasin flow from Wide Hollow Creek. Diversions and ground-water withdrawals for irrigation of about 9,000 acres upstream from station. Return from transbasin irrigation flows contribute to base flow. Chemical data (irrigation seasons only) for 1975-76 water years. Water temperature records March to December 1981. Bureau of Reclamation satellite telemeter at station.

AVERAGE DISCHARGE.--40 years (water years 1961-2000), 80.0 ft³/s, 57,990 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s Jan. 16, 1974, gage height, 10.36 ft; maximum gage height, 13.5 ft, from high-water mark, backwater from Yakima River; no flow many days during September and October 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 309 ft³/s Apr. 14, gage height, 5.41 ft; minimum discharge, 7.1 ft³/s Aug. 7, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	22	64	52	45	103	133	128	138	28	11	9.0
2	22	24	62	50	52	93	181	134	129	27	10	9.4
3	22	22	60	48	57	97	229	143	118	31	10	11
4	23	22	57	48	54	106	262	154	116	36	9.6	11
5	23	22	56	47	52	118	275	152	119	33	8.5	11
6	24	23	55	43	52	106	251	131	124	29	8.3	11
7	24	21	52	45	51	101	211	127	123	28	7.9	11
8	23	20	51	46	53	100	195	123	123	27	8.1	10
9	22	20	54	44	56	102	189	117	124	26	7.7	9.3
10	23	19	50	44	57	100	189	120	120	24	8.6	11
11	25	24	49	44	59	109	197	114	114	22	8.9	12
12	25	44	50	42	61	108	216	101	115	23	9.1	12
13	25	69	48	47	61	102	247	98	114	19	8.7	12
14	26	66	48	47	66	114	292	95	105	18	8.8	11
15	24	53	47	41	64	117	281	94	114	20	8.7	10
16	24	49	50	51	62	115	264	91	108	18	8.5	11
17	24	44	52	45	59	116	241	106	99	16	8.4	11
18	24	40	64	38	58	116	221	121	97	13	9.1	12
19	23	39	66	34	63	118	213	127	92	13	8.9	12
20	19	42	63	40	61	113	210	150	81	13	9.4	11
21	18	40	61	43	61	111	209	161	77	13	9.6	13
22	18	38	59	43	61	117	216	195	70	12	9.9	13
23	18	37	57	43	64	127	208	201	62	12	9.5	15
24	18	36	56	43	64	127	181	197	53	12	9.1	18
25	17	50	54	44	65	126	174	182	51	11	8.4	23
26	18	137	52	43	69	125	152	165	48	16	8.4	28
27	20	101	52	41	79	132	150	162	36	17	8.6	26
28	23	84	53	37	91	134	145	161	28	16	8.1	24
29	22	74	51	34	91	131	124	158	25	13	8.1	28
30	22	71	50	40	---	127	126	153	26	13	8.2	34
31	22	--	49	41	---	126	---	148	---	11	8.5	---
TOTAL	685	1353	1692	1348	1788	3537	6182	4309	2749	610	274.6	439.7
MEAN	22.1	45.1	54.6	43.5	61.7	114	206	139	91.6	19.7	8.86	14.7
MAX	26	137	66	52	91	134	292	201	138	36	11	34
MIN	17	19	47	34	45	93	124	91	25	11	7.7	9.0
AC-FT	1360	2680	3360	2670	3550	7020	12260	8550	5450	1210	545	872

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

(WY)	MEAN	20.7	29.8	53.2	77.0	126	140	138	168	142	34.7	15.6	20.0
1983	MAX	34.4	96.7	210	413	564	408	270	383	438	124	26.7	31.8
1963	MIN	9.30	8.99	8.64	10.3	15.7	21.5	16.5	22.8	12.2	8.31	7.33	9.34
1995	(WY)	1978	1989	1993	1994	1994	1977	1977	1992	1994	1977	1981	

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1961 - 2000

ANNUAL TOTAL	37253	24967.3	80.0
ANNUAL MEAN	102	68.2	
HIGHEST ANNUAL MEAN			171
LOWEST ANNUAL MEAN			20.2
HIGHEST DAILY MEAN	434	Jun 17	1994
LOWEST DAILY MEAN	15	Sep 22	1978
ANNUAL SEVEN-DAY MINIMUM	16	Sep 17	1978
ANNUAL RUNOFF (AC-FT)	73890	49520	57990
10 PERCENT EXCEEDS	225	152	202
50 PERCENT EXCEEDS	77	50	37
90 PERCENT EXCEEDS	22	11	12