

YAKIMA RIVER BASIN

12488500 AMERICAN RIVER NEAR NILE, WA

LOCATION.--Lat 46°58'40", long 121°10'03", in SE 1/4 NW 1/4 sec.12, T.17 N., R.13 E., Yakima County, Hydrologic Unit 17030002, Snoqualmie National Forest, on right bank 300 ft upstream from Bumping Lake Road bridge, 4.9 mi downstream from Hall Creek, 16.0 mi northwest of Nile, and at mile 0.5.

DRAINAGE AREA.--78.9 mi².

PERIOD OF RECORD.--April 1909 to March 1912, July to September 1913, June to September 1914, June to September 1915, October 1939 to current year. Monthly discharge only for period 1909 to 1915, published in WSP 1316.

REVISED RECORDS.--WSP 982: 1940-42. WSP 1216: Drainage area. WSP 1286: 1911.

GAGE.--Water-stage recorder. Datum of gage is 2,700.00 ft above NGVD of 1929 (Washington State Highway Department benchmark). Prior to Sept. 12, 1915, nonrecording gage at site 300 ft downstream at different datum. Oct. 12 to Dec. 7, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--63 years (water years, 1940-2002), 235 ft³/s, 40.47 in/yr, 170,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,230 ft³/s Dec. 26, 1980, gage height, 77.99 ft; minimum discharge, 20 ft³/s Nov. 22, 1940, Jan. 7, 1993, but may have been lower during period of ice effect that day.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,680 ft³/s Jan 8, gage height, 75.39 ft, but may have been higher during period of missing record that day; minimum discharge, 30 ft³/s Oct. 6, 7.

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	32	78	147	104	121	185	137	431	1050	556	131	72
2	32	74	137	103	117	175	151	560	981	491	126	72
3	31	73	131	98	114	169	154	594	e960	453	123	71
4	31	66	127	95	110	164	170	545	e1000	431	119	70
5	31	65	123	95	108	160	193	495	e970	396	120	70
6	31	62	120	111	107	157	207	445	1020	378	120	72
7	31	58	113	782	107	151	227	397	878	406	115	78
8	31	55	109	e1560	104	144	231	360	721	528	111	74
9	31	52	105	1170	99	139	243	333	606	426	109	70
10	31	50	102	788	97	138	270	312	596	396	106	68
11	35	48	100	e600	95	165	301	303	697	424	104	66
12	36	52	97	e560	89	187	343	318	808	428	101	64
13	35	72	134	e460	92	169	495	370	940	408	99	64
14	35	584	191	e360	91	159	1220	399	1080	382	97	64
15	34	633	161	e300	89	152	1130	409	1150	332	95	62
16	34	441	199	259	88	147	830	423	1110	297	93	61
17	34	305	322	235	87	140	626	466	949	282	91	62
18	33	237	260	218	87	135	500	533	854	270	90	61
19	33	255	224	208	89	133	432	551	743	255	88	59
20	33	343	201	197	86	130	394	667	683	234	87	57
21	33	319	180	187	111	124	379	739	712	213	87	56
22	36	292	165	176	260	120	369	697	790	201	85	56
23	45	263	153	166	297	117	349	641	848	194	84	55
24	42	228	143	161	265	115	330	638	780	185	82	54
25	41	205	135	161	235	116	323	666	726	178	81	53
26	41	183	129	152	221	118	325	761	787	172	79	52
27	42	167	124	144	208	117	330	867	845	164	78	51
28	42	157	120	135	198	117	319	1010	785	154	76	51
29	41	160	115	126	---	118	319	1310	978	147	75	51
30	45	154	111	130	---	119	345	1370	766	143	74	50
31	86	---	108	126	---	127	---	1210	---	137	73	---
TOTAL	1148	5731	4586	9967	3772	4407	11642	18820	25813	9661	2999	1866
MEAN	37.0	191	148	322	135	142	388	607	860	312	96.7	62.2
MAX	86	633	322	1560	297	187	1220	1370	1150	556	131	78
MIN	31	48	97	95	86	115	137	303	596	137	73	50
AC-FT	2280	11370	9100	19770	7480	8740	23090	37330	51200	19160	5950	3700
CFSM	0.47	2.42	1.87	4.07	1.71	1.80	4.92	7.69	10.9	3.95	1.23	0.79
IN.	0.54	2.70	2.16	4.70	1.78	2.08	5.49	8.87	12.17	4.55	1.41	0.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)						
70.4	132	168	138	155	156	299	632	635	284	93.4	58.0
248	407	532	464	718	501	595	1172	1312	852	343	104
1948	1996	1976	1974	1996	1972	1943	1956	1974	1999	1999	1997
28.4	30.3	33.2	31.2	37.7	46.6	103	203	189	67.8	41.1	34.5
1988	1994	1953	1979	1985	1977	1955	1977	1992	1977	1941	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1940 - 2002
ANNUAL TOTAL	46103	100412	
ANNUAL MEAN	126	275	235
HIGHEST ANNUAL MEAN			379
LOWEST ANNUAL MEAN			94.2
HIGHEST DAILY MEAN	787	1560	3070
LOWEST DAILY MEAN	31	31	20
ANNUAL SEVEN-DAY MINIMUM	31	31	24
ANNUAL RUNOFF (AC-FT)	91450	199200	170300
ANNUAL RUNOFF (CFSM)	1.60	3.49	2.98
ANNUAL RUNOFF (INCHES)	21.74	47.34	40.47
10 PERCENT EXCEEDS	303	741	589
50 PERCENT EXCEEDS	71	151	122
90 PERCENT EXCEEDS	35	52	46

e Estimated