

12488500 AMERICAN RIVER NEAR NILE, WA

Yakima Basin
Naches Subbasin

LOCATION.--Lat 46°58'40", long 121°10'03" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.12, T.17 N., R.13 E., Yakima County, WA, 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.

SURFACE-WATER RECORDS

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. WDR WA-06-1: 1945-1950, 1956, 1966-1976, 1978, 1980-1986, 1991, 1996, 1999 (M).

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

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--69 years (water years, 1940-2008), 233 ft³/s, 40.19 in/yr, 169,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,280 ft³/s, revised, Dec. 26, 1980, gage height, 77.99 ft, from rating curve extended above 2,500 ft³/s; minimum discharge, 15 ft³/s, Jan. 5, 2004, but may have been lower during period of ice effect that day.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s, May 18, gage height, 75.82 ft; minimum discharge, 41 ft³/s, Oct. 1.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48	54	e72	e105	e64	98	83	236	851	805	112	61
2	47	e50	e68	e96	64	98	83	240	824	708	110	59
3	85	49	e200	e98	63	97	83	243	783	696	106	57
4	74	48	e1,800	100	e62	94	84	259	752	636	100	54
5	63	47	e1,400	97	61	90	83	315	671	510	97	52
6	56	46	e900	92	61	89	83	411	601	461	94	51
7	52	46	e600	e90	59	89	83	478	549	424	93	51
8	53	45	e480	e88	61	89	82	505	502	388	90	50
9	51	44	e400	86	66	92	81	485	497	377	87	48
10	50	60	e320	87	71	97	82	481	514	368	85	47
11	52	72	e260	88	71	112	85	492	483	333	84	46
12	53	72	e230	87	69	118	105	482	467	292	82	45
13	52	91	e210	84	69	119	156	486	494	282	80	46
14	49	78	195	83	64	118	214	571	566	280	77	48
15	47	79	183	82	63	114	207	819	592	270	74	47
16	46	160	172	e78	64	111	199	1,190	609	254	72	46
17	45	198	163	e70	63	109	201	1,640	625	238	70	46
18	48	194	158	e73	64	108	207	2,150	589	221	70	45
19	70	158	153	e75	65	106	196	1,930	561	209	71	45
20	83	134	144	e76	68	103	183	1,680	556	197	80	48
21	74	119	e140	e72	70	100	173	1,390	629	188	90	58
22	68	e110	e135	e56	72	97	164	1,030	648	181	85	54
23	73	e80	e130	e58	71	98	160	857	598	170	79	51
24	80	e82	e140	e60	73	99	154	785	547	158	74	50
25	83	e85	e135	e60	72	96	148	852	538	146	72	50
26	e76	e84	e125	e62	72	95	149	998	534	140	73	50
27	e70	e82	e120	e62	72	93	163	1,030	565	136	72	49
28	66	e80	e115	e62	76	91	199	999	666	134	69	47
29	63	79	e110	e64	85	88	244	986	724	125	67	47
30	59	76	e105	e64	---	86	242	986	860	123	64	47
31	e56	---	e100	e62	---	84	---	901	---	118	62	---
Total	1,892	2,602	9,463	2,417	1,955	3,078	4,376	25,907	18,395	9,568	2,541	1,495
Mean	61.0	86.7	305	78.0	67.4	99.3	146	836	613	309	82.0	49.8
Max	85	198	1,800	105	85	119	244	2,150	860	805	112	61
Min	45	44	68	56	59	84	81	236	467	118	62	45
Ac-ft	3,750	5,160	18,770	4,790	3,880	6,110	8,680	51,390	36,490	18,980	5,040	2,970
Cfs/m	0.77	1.10	3.87	0.99	0.85	1.26	1.85	10.6	7.77	3.91	1.04	0.63
In.	0.89	1.23	4.46	1.14	0.92	1.45	2.06	12.21	8.67	4.51	1.20	0.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	69.4	132	168	141	153	159	297	632	624	275	91.0	57.0
Max	248	425	532	464	718	501	595	1,172	1,312	852	343	104
(WY)	(1948)	(2007)	(1976)	(1974)	(1996)	(1972)	(1943)	(1956)	(1974)	(1999)	(1999)	(1997)
Min	28.4	30.3	33.2	31.2	37.7	46.6	103	203	159	67.8	39.9	32.6
(WY)	(1988)	(1994)	(1953)	(1979)	(1985)	(1977)	(1955)	(1977)	(2005)	(1977)	(2005)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1940 - 2008	
Annual total	87,062		83,689			
Annual mean	239		229		233	
Highest annual mean					379	1974
Lowest annual mean					94.2	1977
Highest daily mean	1,800	Dec 4	2,150	May 18	3,070	Dec 26, 1980
Lowest daily mean	31	Sep 28	44	Nov 9	20	Jan 7, 1993
Annual seven-day minimum	32	Sep 23	46	Sep 12	24	Nov 23, 1993
Annual runoff (ac-ft)	172,700		166,000		169,100	
Annual runoff (cfsm)	3.02		2.90		2.96	
Annual runoff (inches)	41.05		39.46		40.19	
10 percent exceeds	585		603		583	
50 percent exceeds	139		92		121	
90 percent exceeds	46		51		46	

