

SNOHOMISH RIVER BASIN

12144500 SNOQUALMIE RIVER NEAR SNOQUALMIE, WA

LOCATION.--Lat 47°32'43", long 121°50'26", in SW 1/4 SW 1/4 sec.19, T.24 N., R.8 E., King County, Hydrologic Unit 17110010, on right bank 0.3 mi downstream from Snoqualmie Falls, 0.4 mi upstream from Tokul Creek, 1.5 mi northwest of Snoqualmie, and at mile 40.0.

DRAINAGE AREA.--375 mi².

PERIOD OF RECORD.--May 1898 to July 1899; August to September 1899 (monthly discharge only); January to July 1900, September 1902 to July 1904; August to September 1904 (monthly discharge only); October 1904 to September 1905 and November to December 1906 (gage heights only); August 1907 to May 1926 (monthly discharge only); June 1926 to September 1927; October 1927 to September 1932 (monthly discharge only); August 1958 to current year. Published as "near Snoqualmie Falls" 1904-06.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 120 ft above NGVD of 1929, from river-profile map. Prior to Nov. 3, 1902, and Nov. 1 to Dec. 31, 1906, nonrecording gages upstream and downstream from Snoqualmie Falls at different datum. Nov. 3, 1902, to Sept. 30, 1905, nonrecording gage at site 4 mi upstream and 300 ft downstream from South Fork, at different datum. Prior to Sept. 9, 1999, at site on opposite bank, at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Medium and low flows affected by powerplant 0.1 mi upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--72 years (water years 1899, 1903-04, 1908-32, 1959-2002), 2,602 ft³/s, 94.23 in/yr, 1,885,000 acre-ft/yr, includes monthly discharge figures, see PERIOD OF RECORD.
44 years (water years 1959-2002), 2,701 ft³/s, 97.85 in/yr, 1,956,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,800 ft³/s Nov. 24, 1990, gage height, 21.55 ft, from inside high-water mark; minimum discharge, 9.7 ft³/s Aug. 14, 27, 1958, gage height, -0.53 ft; minimum daily discharge, 88 ft³/s Aug. 8, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,800 ft³/s Apr. 14, gage height, 14.49 ft; minimum discharge, less than 100 ft³/s Aug. 13, gage height 1.16 ft.

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	410	e5370	3080	1580	1940	2160	2450	4220	5550	4130	1090	489
2	387	4970	3880	1830	1810	1960	2490	4660	5390	3660	1000	501
3	373	3930	2970	2070	1770	1810	2230	4230	5310	3350	940	787
4	357	2920	2550	1940	1720	1720	2220	3470	5410	3110	889	668
5	343	3290	2320	1780	1620	1800	2720	3130	6400	2900	909	559
6	333	2590	2370	2090	1670	1720	3580	2910	7450	2880	1100	513
7	328	2070	2640	14200	2080	1560	5260	2560	5370	3200	1070	486
8	362	1750	2280	17800	2350	1470	3970	2270	4180	4110	927	475
9	575	1520	2650	9600	2180	1400	3420	2140	3590	3160	864	481
10	589	1380	2280	5420	1930	1430	5050	2040	3950	3220	849	468
11	3160	1280	2060	4050	2030	4180	5930	2070	4960	3600	865	453
12	2200	1250	1930	4540	1770	5310	9020	2510	5980	3370	812	439
13	5470	e1980	8170	4680	1600	3590	11600	4070	7270	3140	e777	436
14	4040	e16200	9910	3420	1470	2960	19400	4920	8020	2890	763	423
15	2940	11900	4990	2820	1390	2610	9660	4210	7020	2490	756	411
16	1890	7890	10300	2470	1390	2340	6340	3550	5950	2220	711	458
17	2000	4900	12400	2190	1380	2080	4790	3990	4710	2230	683	853
18	1520	3580	6010	2010	1670	1890	3890	4500	6170	2140	649	660
19	4440	3210	4320	2440	1920	2060	3390	4250	5870	2070	618	549
20	4420	4040	3440	2660	2090	2610	3140	5460	4660	1870	622	540
21	2730	4890	2910	2610	4880	2180	2910	5390	5230	1760	633	514
22	e4540	5110	2540	2180	12200	1960	2980	5800	5650	1760	604	456
23	e6120	7250	2250	1960	9430	1890	3130	5090	5370	1750	580	443
24	e4900	4530	2050	3090	6470	1880	2770	4490	4460	1710	572	426
25	e5890	3400	1880	5490	4290	1970	2570	4610	4490	1630	567	412
26	e5240	2930	1740	3650	3330	2050	2590	5040	5240	1580	565	400
27	e4440	2630	1640	2720	2790	2110	2560	5590	5360	1420	550	393
28	e3340	2550	1670	2250	2450	2720	2420	8930	5380	1280	532	383
29	e2470	2900	1720	1980	---	2830	2600	10300	9980	1300	525	415
30	e2200	2740	1580	1920	---	2630	3170	8080	5530	1290	516	505
31	e5490	---	1580	2050	---	2510	---	6550	---	1200	509	---
TOTAL	83497	124950	112110	119490	81620	71390	138250	141030	169900	76420	23047	14996
MEAN	2693	4165	3616	3855	2915	2303	4608	4549	5663	2465	743.5	499.9
MAX	6120	16200	12400	17800	12200	5310	19400	10300	9980	4130	1100	853
MIN	328	1250	1580	1580	1380	1400	2220	2040	3590	1200	509	383
AC-FT	165600	247800	222400	237000	161900	141600	274200	279700	337000	151600	45710	29740
CFSM	7.18	11.1	9.64	10.3	7.77	6.14	12.3	12.1	15.1	6.57	1.98	1.33
IN.	8.28	12.40	11.12	11.85	8.10	7.08	13.71	13.99	16.85	7.58	2.29	1.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

MEAN	1846	3635	3693	3547	3053	2511	3060	3779	3538	1855	859.6	1079
MAX	3931	10100	8886	6414	6676	6735	4696	6055	7568	4393	2263	3937
(WY)	1960	1991	1976	1984	1982	1972	1989	1972	1974	1974	1964	1959
MIN	348	716	1211	1162	1215	1367	1478	1895	1077	815	451	342
(WY)	1988	1980	2001	1979	1969	1962	1967	1992	1992	1987	1998	1998

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1959 - 2002
ANNUAL TOTAL	827733	1156700	
ANNUAL MEAN	2268	3169	2701
HIGHEST ANNUAL MEAN			3939
LOWEST ANNUAL MEAN			1739
HIGHEST DAILY MEAN	16200	Nov 14	19400
LOWEST DAILY MEAN	328	Oct 7	328
ANNUAL SEVEN-DAY MINIMUM	355	Oct 2	355
ANNUAL RUNOFF (AC-FT)	1642000	2294000	1956000
ANNUAL RUNOFF (CFSM)	6.05	8.45	7.20
ANNUAL RUNOFF (INCHES)	82.11	114.74	97.85
10 PERCENT EXCEEDS	4530	5880	5050
50 PERCENT EXCEEDS	1810	2490	2090
90 PERCENT EXCEEDS	520	545	637

e Estimated