

SNOHOMISH RIVER BASIN

12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA

LOCATION.--Lat 47°36'54", long 121°42'44", in NW 1/4 NW 1/4 sec.31, T.25 N., R.9 E., King County, Hydrologic Unit 17110010, on left bank 0.6 mi upstream from Calligan Creek, 7.0 mi northeast of town of Snoqualmie Falls, and at mile 9.2.

DRAINAGE AREA.--64.0 mi².

PERIOD OF RECORD.--August 1929 to October 1949, water years 1950-60 (annual maximum), February 1961 to current year.

REVISED RECORDS.--WSP 1346: 1930-31(M), 1932, 1935, 1936-37(M), 1938, 1939-42(M), 1944, 1945-46(P), 1947, 1948(P), 1949(M). WSP 1736: 1932-34(M), 1935, 1938(M), 1943-45(M), 1947(M), drainage area. WSP 1932: 1950-54(M), 1956-57(M), 1959(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,130 ft above NGVD of 1929, from topographic map. Prior to Oct. 19, 1949, water-stage recorder, and October 1949 to February 1961, crest-stage gage, at site 1,500 ft downstream at different datum.

EMARKS.--Records good. No regulation or diversion upstream from station. Daily water temperatures June 1979 to August 1980. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--61 years (water years 1930-49, 1962-2002), 502 ft³/s, 106.64 in/yr, 363,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s Feb. 26, 1932, gage height, 17.5 ft, site and datum then in use, from rating curve extended above 2,200 ft³/s on basis of slope-area measurement at gage height 16.47 ft; minimum discharge observed, 30 ft³/s Sept. 17-19, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	1300	*6,240	*8.84	Feb. 22	1230	4,990	8.08
Dec. 17	0145	4,270	7.59	Apr. 14	0545	5,790	8.57
Jan. 8	0030	5,500	8.40				

Minimum discharge, 51 ft³/s Sept. 15, 16.

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	81	1060	618	e325	288	370	512	914	1080	799	153	54
2	73	1160	858	480	268	330	504	958	1070	680	141	66
3	69	755	517	510	269	304	431	871	1030	624	130	172
4	66	564	417	444	265	292	444	660	1080	558	126	104
5	62	708	360	380	253	318	613	577	1490	533	137	85
6	59	496	371	628	268	291	881	528	1640	572	195	77
7	56	395	441	4320	352	263	1220	448	1040	647	180	73
8	64	331	392	3680	372	249	768	400	810	855	142	74
9	142	290	481	1740	343	235	717	381	690	570	127	71
10	166	260	388	959	326	242	1330	363	840	656	120	68
11	1100	241	335	729	368	1090	1520	391	1040	675	115	62
12	699	242	322	1000	309	1080	2460	563	1270	620	108	59
13	1470	379	2390	910	277	641	2970	948	1530	587	103	55
14	879	4560	1910	633	253	500	4030	1170	1540	506	99	53
15	561	2270	873	505	239	440	1580	854	1290	412	95	52
16	384	1430	2650	434	246	382	1090	689	1080	381	90	89
17	402	848	2500	376	255	330	842	924	850	381	86	240
18	308	597	1020	342	339	297	687	954	1330	357	82	131
19	1570	621	715	382	432	315	605	859	1030	339	78	106
20	979	941	558	395	436	331	565	1130	854	293	78	101
21	638	1050	467	367	1740	300	520	1120	1060	278	80	91
22	1350	1070	403	323	3970	290	567	1250	1110	281	75	82
23	1190	1330	351	295	2130	296	619	1050	1000	273	72	76
24	952	809	316	559	1270	310	513	923	825	255	68	72
25	1680	591	290	933	793	350	475	972	879	236	66	68
26	1300	499	269	562	604	384	482	1060	1070	217	65	64
27	1080	442	254	416	494	395	470	1220	1010	200	63	61
28	721	415	323	343	427	566	440	2010	1210	178	61	57
29	537	511	350	303	---	572	498	2420	2500	198	59	83
30	532	460	299	295	---	553	679	1600	1020	191	56	120
31	1340	---	313	306	---	510	---	1280	---	176	55	---
TOTAL	20510	25325	21751	23874	17586	12826	29032	29487	34268	13528	3105	2566
MEAN	661.6	844.2	701.6	770.1	628.1	413.7	967.7	951.2	1142	436.4	100.2	85.53
MAX	1680	4560	2650	4320	3970	1090	4030	2420	2500	855	195	240
MIN	56	241	254	295	239	235	431	363	690	176	55	52
AC-FT	40680	50230	43140	47350	34880	25440	57580	58490	67970	26830	6160	5090
CFSM	10.3	13.2	11.0	12.0	9.81	6.46	15.1	14.9	17.8	6.82	1.57	1.34
IN.	11.92	14.72	12.64	13.88	10.22	7.46	16.87	17.14	19.92	7.86	1.80	1.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

	MEAN	393.3	680.5	713.0	646.6	526.8	472.1	592.0	718.9	641.3	306.3	131.8	206.2
MAX	906	1894	1856	1310	1295	1250	968	1248	1338	733	439	574	
(WY)	1935	1991	1934	1934	1982	1972	2002	1936	1974	1972	1964	1941	
MIN	38.3	85.4	209	124	201	225	279	327	145	70.3	45.0	44.2	
(WY)	1988	1937	1986	1937	1938	1992	1975	1992	1934	1940	1930	1938	

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1930 - 2002
ANNUAL TOTAL	163575	233858	
ANNUAL MEAN	448.2	640.7	502.3
HIGHEST ANNUAL MEAN			736
LOWEST ANNUAL MEAN			335
HIGHEST DAILY MEAN	4560	Nov 14	9580
LOWEST DAILY MEAN	56	Oct 7	31
ANNUAL SEVEN-DAY MINIMUM	60	Sep 19	32
ANNUAL RUNOFF (AC-FT)	324500	463900	363900
ANNUAL RUNOFF (CFSM)	7.00	10.0	7.85
ANNUAL RUNOFF (INCHES)	95.08	135.93	106.64
10 PERCENT EXCEEDS	915	1280	1010
50 PERCENT EXCEEDS	334	442	356
90 PERCENT EXCEEDS	92	78	93

e Estimated