

## SNOHOMISH RIVER BASIN

12144000 SOUTH FORK SNOQUALMIE RIVER AT NORTH BEND, WA

LOCATION.--Lat 47°29'35", long 121°47'20", in SW 1/4 NE 1/4 sec.9, T.23 N., R.8 E., King County, Hydrologic Unit 17110010, on right bank on upstream side of Bendigo Street crossing at North Bend, and at mile 2.0.

DRAINAGE AREA.--81.7 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1907 to September 1926, February 1929 to September 1938, June 1945 to April 1950, October 1960 to August 1974, February 1984 to current year. Monthly and yearly discharge only for water years 1908, 1910 and 1913, published in WSP 1316.

REVISED RECORDS.--WSP 1316: 1918-19(M). WSP 1932: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 423.01 ft above NGVD of 1929 (February 1984 through September 1996 incorrectly published as 439.33 ft). Prior to April 11, 1950, nonrecording gage or water-stage recorder at several sites within 0.5 mi upstream from present site at various datums. October 1, 1960 to March 10, 1965, at site 0.46 mi upstream at datum 1.86 ft lower. March 10, 1965 to August 31, 1974, at site 0.46 mi upstream at datum 6.86 ft lower.

REMARKS.--No estimated daily discharges. Records good. City of North Bend diverts about 0.8 ft<sup>3</sup>/s daily from Clough Creek for municipal use. Minor regulation at Twin Falls and Weeks Falls projects upstream from station.

AVERAGE DISCHARGE.--63 years (water years 1908-26, 1930-38, 1946-49, 1961-73, 1985-2002), 551 ft<sup>3</sup>/s, 91.57 in/yr, 398,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 10,900 ft<sup>3</sup>/s Nov. 24, 1990, gage height, 19.09 ft, from rating curve extended above 3,900 ft<sup>3</sup>/s; minimum discharge, 63 ft<sup>3</sup>/s Oct. 22, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 22, 1959, reached a stage of 14.49 ft, site and datum then in use, from floodmarks, discharge, 13,000 ft<sup>3</sup>/s, slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 14	1030	4,420	12.99	Feb 22	1515	2,360	10.94
Dec 13	1745	2,600	11.20	Apr 14	0645	*5,750	*14.32
Dec 17	0245	3,010	11.63	May 29	1045	2,220	10.67
Jan 08	0315	4,470	13.04				

Minimum discharge, 92 ft<sup>3</sup>/s Oct. 5-8.

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	101	1160	597	314	466	489	534	982	1350	855	263	155
2	99	995	656	342	432	443	537	1080	1340	771	247	160
3	98	784	535	338	427	415	492	911	1340	720	240	184
4	97	625	481	336	404	398	493	752	1350	680	236	163
5	93	669	444	323	391	418	577	711	1490	626	237	156
6	93	545	470	383	392	392	762	646	1550	615	246	152
7	93	457	476	2390	456	364	1050	576	1220	653	236	148
8	106	401	444	3440	480	345	848	514	1010	763	224	147
9	128	363	480	1920	435	330	775	487	895	592	218	147
10	134	331	435	1210	414	341	1090	462	1040	611	215	144
11	398	304	401	932	411	920	1210	480	1250	647	212	142
12	320	295	389	997	379	1110	1810	578	1430	610	211	141
13	816	372	1650	944	355	813	2580	928	1660	563	202	139
14	802	3250	1840	748	337	673	4320	1010	1750	518	197	138
15	523	1890	1040	632	323	596	2050	910	1540	470	193	137
16	354	1370	2040	560	318	531	1430	814	1340	436	189	145
17	361	937	2190	503	313	475	1110	926	1130	429	185	163
18	293	703	1250	472	339	438	914	1020	1450	412	182	147
19	533	647	941	513	378	510	797	999	1380	398	180	141
20	606	699	758	588	386	640	744	1280	1170	369	182	141
21	445	931	639	571	892	503	685	1190	1230	360	181	138
22	704	1100	555	494	1950	451	704	1250	1270	351	177	135
23	1170	1370	494	452	1690	427	706	1120	1200	341	171	133
24	805	909	449	809	1340	418	624	1030	1040	332	169	131
25	928	697	418	1440	927	426	590	1080	1030	322	168	130
26	871	598	394	929	732	437	607	1200	1130	313	167	129
27	739	528	374	686	620	437	595	1330	1120	295	165	129
28	574	508	370	568	550	516	559	2030	1060	284	162	128
29	461	553	347	501	---	562	618	2110	1750	280	159	132
30	433	495	331	488	---	543	741	1730	1090	276	158	133
31	1060	---	329	512	---	526	---	1530	---	267	157	---
TOTAL	14238	24486	22217	25335	16537	15887	30552	31666	38605	15159	6129	4308
MEAN	459	816	717	817	591	512	1018	1021	1287	489	198	144
MAX	1170	3250	2190	3440	1950	1110	4320	2110	1750	855	263	184
MIN	93	295	329	314	313	330	492	462	895	267	157	128
AC-FT	28240	48570	44070	50250	32800	31510	60600	62810	76570	30070	12160	8540
CFSM	5.62	9.99	8.77	10.0	7.23	6.27	12.5	12.5	15.8	5.99	2.42	1.76
IN.	6.48	11.15	10.12	11.54	7.53	7.23	13.91	14.42	17.58	6.90	2.79	1.96

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2002, BY WATER YEAR (WY)

	MEAN	333	649	702	711	628	596	703	857	749	359	172	172
MAX	843	2164	2267	1579	1398	1516	1171	1313	1763	940	405	421	
(WY)	1934	1991	1934	1934	1996	1972	1932	1997	1974	1974	1964	1933	
MIN	76.5	92.4	213	218	178	190	352	354	210	100	84.8	76.8	
(WY)	1988	1930	1931	1937	1922	1922	1967	1915	1992	1926	1910	1910	

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1907 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1907 - 2002
ANNUAL TOTAL	174102	245119	
ANNUAL MEAN	477	672	551
HIGHEST ANNUAL MEAN			809
LOWEST ANNUAL MEAN			334
HIGHEST DAILY MEAN	3250	4320	10100
LOWEST DAILY MEAN	93	93	65
ANNUAL SEVEN-DAY MINIMUM	96	96	66
ANNUAL RUNOFF (AC-FT)	345300	486200	398900
ANNUAL RUNOFF (CFSM)	5.84	8.22	6.74
ANNUAL RUNOFF (INCHES)	79.27	111.61	91.57
10 PERCENT EXCEEDS	940	1340	1050
50 PERCENT EXCEEDS	366	514	438
90 PERCENT EXCEEDS	137	157	132