12144000 SOUTH FORK SNOQUALMIE RIVER AT NORTH BEND, WA

Puget Sound Basin
Snoqualmie Subbasin

LOCATION.--Lat 47°29′35″, long 121°47′20″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.9, T.23 N., R.8 E., King County, WA, 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^2.

SURFACE-WATER RECORDS

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.--Records good except for estimated daily discharges, which are poor. City of North Bend diverts about 0.8 ft^3/s daily from Clough Creek for municipal use. Minor regulation at Twin Falls and Weeks Falls projects upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--67 years (water years 1908-26, 1930-38, 1946-49, 1961-73, 1985-2006), 546 ft^3/s, 90.80 in/yr, 395,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 10,900 ft^3/s, Nov. 24, 1990, gage height, 19.09 ft, from rating curve extended above 3,900 ft^3/s; minimum discharge, 63 ft^3/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^3/s, slope-area measurement.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0630	2,850	11.69
Jan 10	1815	*4,100	*13.00

Minimum discharge, 98 ft^3/s, Sep 11, 13, 14, 29, 30, gage height, 7.60 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	730	1,300	283	978	e1,320	e415	e380	746	1,000	345	153	122
2	553	987	279	757	e1,270	e405	e357	584	1,230	329	149	115
3	403	775	268	629	e1,240	e385	e340	532	1,130	318	145	112
4	314	734	250	561	e1,140	e370	e400	556	1,080	317	144	110
5	261	717	245	521	e964	e350	e420	640	1,370	312	141	109
6	237	817	240	1,090	e820	e342	e422	721	1,050	290	139	107
7	386	619	228	1,460	e715	e350	e392	722	913	266	137	107
8	349	495	215	1,180	e660	e380	e454	796	783	256	135	106
9	302	424	212	1,480	e610	e370	e640	609	709	248	135	107
10	263	436	210	e3,750	e550	e355	e547	558	669	244	136	105
11	247	717	204	e2,980	e510	e335	e487	612	651	234	133	103
12	227	609	205	e1,760	e485	e320	e504	628	892	228	129	100
13	230	972	205	1,700	e475	e308	e545	549	905	252	127	100
14	218	1,310	e195	e1,370	e460	e297	875	571	722	228	125	110
15	206	831	188	e1,120	e420	e288	805	906	756	217	123	113
16	196	644	176	993	e405	e280	622	1,530	742	208	123	110
17	301	570	174	1,330	e386	e275	518	1,690	730	203	122	108
18	303	517	166	1,080	e355	e275	470	1,670	613	195	121	109
19	297	545	181	922	e345	e270	449	1,500	551	190	118	118
20	567	548	191	e1,010	e345	e267	476	1,330	496	185	117	122
21	396	504	262	e875	e340	e261	615	1,080	477	182	116	243
22	317	469	484	803	e350	e259	560	1,140	451	180	115	236
23	275	429	1,100	745	e458	e263	517	1,080	446	176	115	159
24	248	390	2,300	e710	e420	e299	555	1,020	446	172	115	137
25	230	406	1,570	708	e390	e310	600	913	469	168	114	124
26	232	384	1,260	e690	e360	e295	670	853	493	170	113	118
27	214	343	1,260	e680	e390	e280	614	879	483	160	111	113
28	217	313	1,230	e735	e440	e285	830	1,080	435	157	109	109
29	232	318	1,070	e800	---	e290	1,150	1,180	383	153	111	107
30	234	303	947	e1,790	---	e295	978	913	353	155	158	105
31	809	---	1,050	e1,370	---	e303	---	889	---	161	143	---
Total	9,994	18,426	16,848	36,577	16,623	9,777	17,192	28,477	21,428	6,899	3,972	3,644
Mean	322	614	543	1,180	594	315	573	919	714	223	128	121
Max	809	1,310	2,300	3,750	1,320	415	1,150	1,690	1,370	345	158	243
Min	196	303	166	521	340	259	340	532	353	153	109	100
Ac-ft	19,820	36,550	33,420	72,550	32,970	19,390	34,100	56,480	42,500	13,680	7,880	7,230
Cfsm	3.95	7.52	6.65	14.4	7.27	3.86	7.01	11.2	8.74	2.72	1.57	1.49
In.	4.55	8.39	7.67	16.65	7.57	4.45	7.83	12.97	9.76	3.14	1.81	1.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	333	646	692	721	621	592	696	845	735	350	172	174
Max	843	2,164	2,267	1,579	1,398	1,516	1,171	1,313	1,763	940	405	438
(WY)	(1934)	(1991)	(1934)	(1934)	(1996)	(1972)	(1932)	(1997)	(1974)	(1974)	(1964)	(2004)
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)

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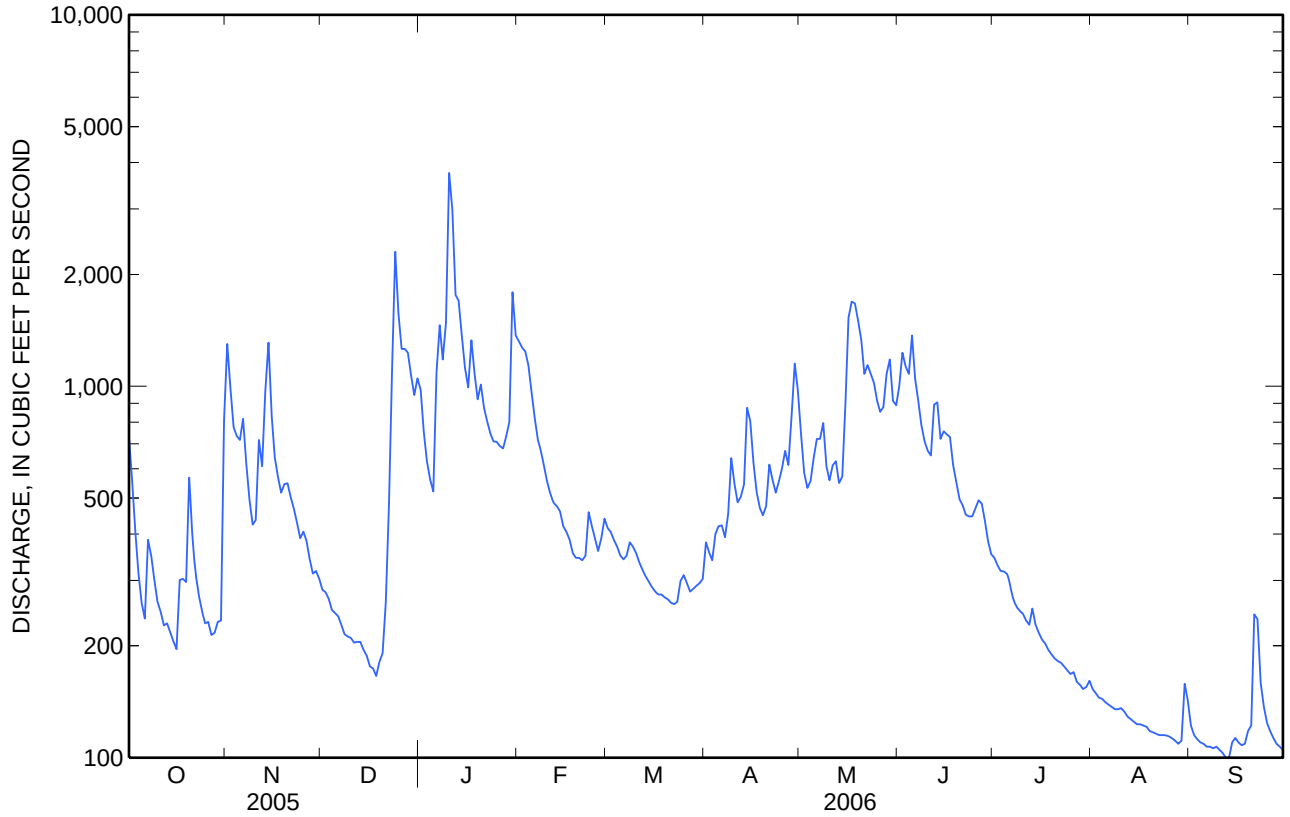
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1907 - 2006	
Annual total	149,164		189,857			
Annual mean	409		520		546	
Highest annual mean					809	1972
Lowest annual mean					334	1915
Highest daily mean	6,130	Jan 18	3,750	Jan 10	10,100	Nov 24, 1990
Lowest daily mean	107	Sep 28	100	Sep 12	65	Oct 22, 1925
Annual seven-day minimum	111	Sep 22	104	Sep 7	66	Oct 17, 1925
Annual runoff (ac-ft)	295,900		376,600		395,600	
Annual runoff (cfsm)	5.00		6.37		6.68	
Annual runoff (inches)	67.92		86.45		90.80	
10 percent exceeds	732		1,080		1,040	
50 percent exceeds	302		386		432	
90 percent exceeds	138		122		132