12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA

Puget Sound Basin
Snoqualmie Subbasin

LOCATION.--Lat 47°36′54″, long 121°42′44″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.31, T.25 N., R.9 E., King County, WA, 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 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1929 to October 1949, water years 1950-54, 56-57, 59-60 (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.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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 FOR PERIOD OF RECORD.--65 years (water years 1930-49, 1962-2006), 500 ft^3/s, 106.22 in/yr, 362,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s, Feb. 26, 1932, gage height, 17.5 ft, site and datum then in use, from rating curve extended above 2,200 ft^3/s, on basis of slope-area measurement at gage height 16.47 ft; minimum discharge observed, 30 ft^3/s, Sept. 17-19, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	1100	*4,470	*7.72
Jan 10	1030	4,420	7.69

Minimum discharge, 38 ft^3/s, Sep 13, gage height, 1.46 ft.

12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA—Continued

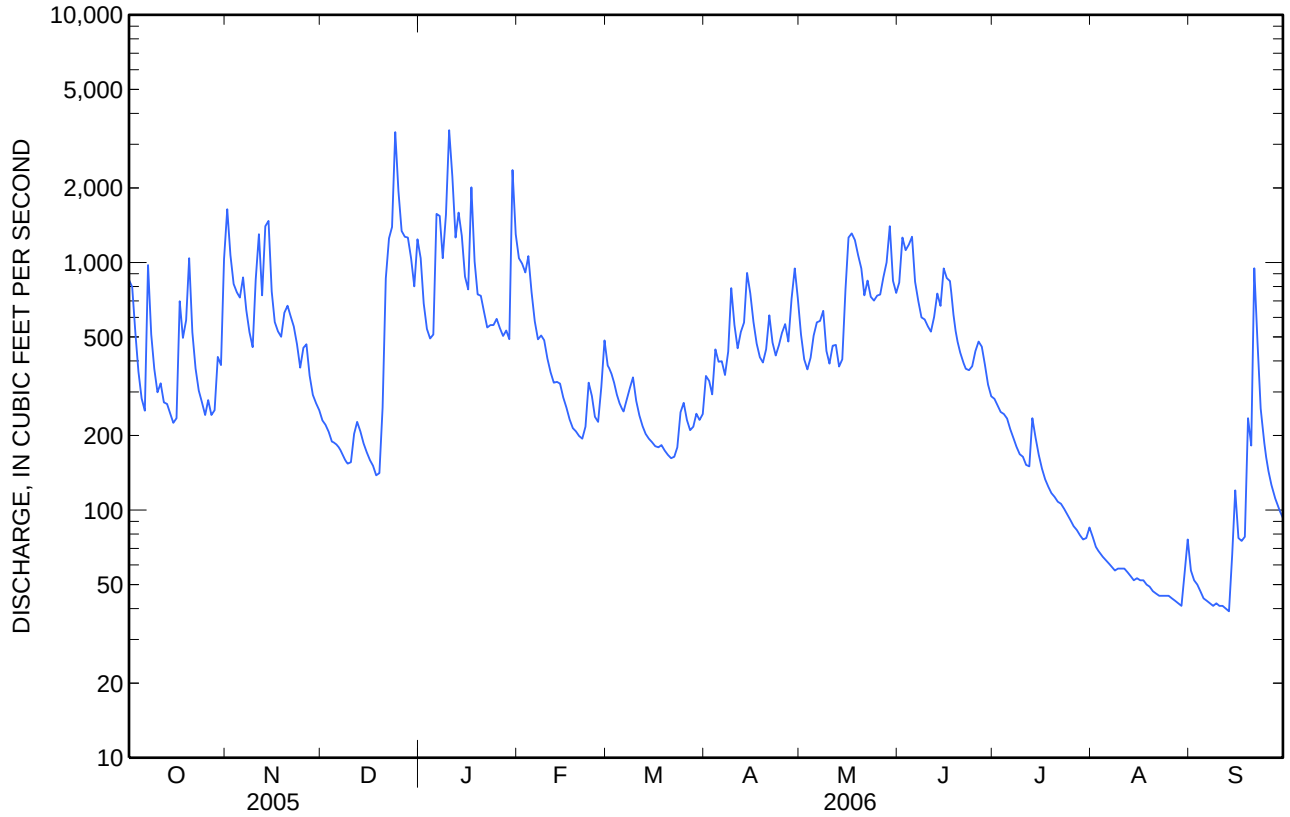
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	849	1,640	230	1,040	1,040	383	348	511	830	281	78	57
2	795	1,070	221	683	989	359	332	406	1,260	264	71	52
3	518	818	207	539	911	330	293	370	1,120	249	68	50
4	362	757	189	493	1,060	290	445	412	1,180	244	65	47
5	282	721	186	511	759	264	397	506	1,270	234	63	44
6	252	870	180	1,570	579	250	399	573	836	212	61	43
7	976	642	172	1,540	489	278	351	580	699	195	59	42
8	511	522	161	1,040	507	310	436	637	600	180	57	41
9	372	455	154	1,560	485	343	787	439	588	168	58	42
10	299	853	156	3,420	409	276	559	390	552	164	58	41
11	325	1,300	203	2,220	360	241	450	461	525	152	58	41
12	272	736	227	1,260	327	218	524	464	602	150	56	40
13	268	1,400	208	1,590	329	203	572	380	748	235	54	39
14	246	1,470	186	1,280	324	194	907	406	667	196	52	66
15	225	763	171	876	285	188	751	777	945	167	53	120
16	235	574	159	778	259	181	574	1,260	865	147	52	77
17	697	527	151	2,010	232	179	470	1,310	841	133	e52	75
18	496	501	138	1,010	214	183	414	1,230	634	124	e50	78
19	584	626	141	743	208	174	394	1,070	509	117	e49	235
20	1,040	669	259	733	199	167	446	945	440	113	e47	182
21	522	607	862	631	194	162	611	736	403	108	e46	947
22	373	551	1,250	546	217	164	475	844	372	106	e45	478
23	304	467	1,390	558	327	179	421	727	367	101	e45	257
24	272	376	3,360	558	289	248	463	701	381	96	e45	192
25	242	452	1,940	592	238	271	519	734	438	91	e45	156
26	278	467	1,340	543	227	231	563	742	479	86	44	133
27	242	349	1,270	505	314	210	479	871	457	83	43	118
28	253	292	1,260	531	484	217	713	1,000	388	79	42	108
29	415	270	1,040	490	---	245	945	1,400	321	76	41	99
30	385	253	800	2,360	---	231	718	843	288	77	56	93
31	1,030	---	1,240	1,300	---	244	---	753	---	85	76	---
Total	13,920	20,998	19,451	33,510	12,255	7,413	15,756	22,478	19,605	4,713	1,689	3,993
Mean	449	700	627	1,081	438	239	525	725	654	152	54.5	133
Max	1,040	1,640	3,360	3,420	1,060	383	945	1,400	1,270	281	78	947
Min	225	253	138	490	194	162	293	370	288	76	41	39
Ac-ft	27,610	41,650	38,580	66,470	24,310	14,700	31,250	44,590	38,890	9,350	3,350	7,920
Cfsm	7.02	10.9	9.80	16.9	6.84	3.74	8.21	11.3	10.2	2.38	0.85	2.08
In.	8.09	12.21	11.31	19.48	7.12	4.31	9.16	13.07	11.40	2.74	0.98	2.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	396	683	705	664	518	474	587	710	631	297	131	210
Max	906	1,894	1,856	1,310	1,295	1,250	968	1,248	1,338	733	439	575
(WY)	(1935)	(1991)	(1934)	(1934)	(1982)	(1972)	(2002)	(1936)	(1974)	(1972)	(1964)	(2004)
Min	38.3	85.4	209	124	201	225	279	327	145	70.3	41.5	44.2
(WY)	(1988)	(1937)	(1986)	(1937)	(1938)	(1992)	(1975)	(1992)	(1934)	(1940)	(2003)	(1938)

12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1930 - 2006	
Annual total	152,893		175,781			
Annual mean	419		482		500	
Highest annual mean					736	1972
Lowest annual mean					335	1930
Highest daily mean	8,140	Jan 18	3,420	Jan 10	9,580	Oct 25, 1934
Lowest daily mean	37	Sep 28	39	Sep 13	31	Sep 16, 1998
Annual seven-day minimum	42	Aug 23	41	Sep 7	32	Sep 11, 1998
Annual runoff (ac-ft)	303,300		348,700		362,500	
Annual runoff (cfsm)	6.55		7.52		7.82	
Annual runoff (inches)	88.87		102.17		106.22	
10 percent exceeds	851		1,040		1,000	
50 percent exceeds	270		362		355	
90 percent exceeds	57		59		91