Water-Data Report 2012

12141300 MIDDLE FORK SNOQUALMIE RIVER NEAR TANNER, WA

Puget Sound Basin
Snoqualmie Subbasin

LOCATION.--Lat 47°29′10″, long 121°38′48″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.10, T.23 N., R.9 E., King County, WA, Hydrologic Unit 17110010, on left bank 0.7 mi downstream from Granite Creek, 6.4 mi east of North Bend, and at mile 55.6.

DRAINAGE AREA.--154 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1961 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 780 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station. Water temperatures June 1979 to September 1980. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--51 years (water years 1962-2012), 1,234 ft^3/s, 108.85 in/yr, 893,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,700 ft^3/s, Nov. 6, 2006, gage height, 15.32 ft; minimum discharge, 91 ft^3/s, Oct. 29-31, 1987, gage height, 0.61 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 23, 1959, reached a stage of 18.7 ft from floodmarks, discharge, 49,000 ft^3/s, by slope-area measurement at site 6 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 28	2230	10,500	9.42
Feb 22	0415	*14,300	*10.76

Minimum discharge, 122 ft^3/s, Sept. 30, gage height, 0.81 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 12141300, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12141300.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	363	1,340	1,070	1,500	1,800	771	1,300	3,220	3,790	2,620	582	184
2	374	998	924	1,270	1,410	762	1,110	2,160	4,110	2,050	549	178
3	346	884	797	1,470	1,130	1,080	1,010	1,750	3,110	2,200	530	174
4	376	756	709	1,560	965	1,260	921	2,270	2,290	1,950	523	171
5	421	651	639	2,670	858	1,330	804	1,910	2,810	1,730	568	168
6	594	571	587	1,560	784	1,140	726	1,510	2,880	1,810	572	166
7	662	539	547	1,170	729	896	655	1,440	2,310	2,050	531	166
8	691	582	511	985	691	803	624	1,900	2,640	2,370	509	164
9	536	535	482	883	731	849	683	2,230	2,080	2,610	459	169
10	544	494	473	827	884	979	979	1,640	1,960	2,310	404	218
11	3,470	526	449	714	947	1,340	1,330	1,300	1,970	1,930	379	218
12	3,280	735	419	637	858	1,100	1,350	1,270	2,320	1,810	366	184
13	1,490	1,530	395	585	769	1,010	1,220	1,710	3,480	1,770	376	165
14	992	1,550	383	579	708	862	1,110	2,950	2,430	1,670	357	156
15	770	1,100	386	538	630	1,640	1,050	3,800	1,900	1,580	362	154
16	630	921	379	500	593	2,110	1,630	3,300	2,090	1,310	345	152
17	539	1,960	366	500	641	1,430	1,910	2,700	4,470	1,390	333	152
18	475	1,200	439	490	938	1,110	1,400	2,090	4,930	1,390	323	150
19	429	908	450	605	1,160	924	1,280	1,700	3,750	1,260	312	150
20	415	746	408	828	841	942	3,570	1,710	2,640	1,340	300	148
21	491	684	439	1,710	5,540	877	2,650	2,550	2,590	1,250	275	146
22	2,970	2,210	385	1,100	10,300	789	3,090	4,240	2,790	1,050	255	150
23	3,970	5,160	378	874	3,380	703	4,420	4,940	2,970	965	246	150
24	1,630	2,780	489	842	2,000	645	4,470	3,790	2,480	839	235	146
25	1,120	1,780	596	2,350	2,040	631	3,390	2,430	1,970	833	221	142
26	873	1,300	554	2,160	1,460	689	3,710	2,100	2,440	888	211	140
27	752	2,360	826	1,350	1,130	693	2,870	2,060	2,610	890	209	138
28	741	2,460	7,170	1,030	950	782	2,010	1,900	2,190	776	207	135
29	1,390	1,520	5,770	3,140	850	1,370	1,690	1,840	2,300	711	201	133
30	1,680	1,330	4,460	4,940	---	2,530	2,760	1,570	2,330	658	197	133
31	2,360	---	2,280	2,310	---	1,610	---	2,500	---	626	190	---
Total	35,374	40,110	34,160	41,677	45,717	33,657	55,722	72,480	82,630	46,636	11,127	4,800
Mean	1,141	1,337	1,102	1,344	1,576	1,086	1,857	2,338	2,754	1,504	359	160
Max	3,970	5,160	7,170	4,940	10,300	2,530	4,470	4,940	4,930	2,620	582	218
Min	346	494	366	490	593	631	624	1,270	1,900	626	190	133
Ac-ft	70,160	79,560	67,760	82,670	90,680	66,760	110,500	143,800	163,900	92,500	22,070	9,520
Cfsm	7.41	8.68	7.16	8.73	10.2	7.05	12.1	15.2	17.9	9.77	2.33	1.04
In.	8.54	9.69	8.25	10.07	11.04	8.13	13.46	17.51	19.96	11.27	2.69	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	876	1,678	1,543	1,603	1,242	1,061	1,321	1,842	1,837	952	408	474
Max	1,978	4,534	3,997	3,366	2,941	2,836	2,231	3,342	4,012	2,370	1,218	1,241
(WY)	(1991)	(1996)	(1976)	(2011)	(1982)	(1972)	(1989)	(2008)	(1974)	(1974)	(1964)	(1968)
Min	105	298	441	427	387	512	601	996	553	342	152	135
(WY)	(1988)	(1980)	(1986)	(1979)	(1969)	(2006)	(1967)	(1992)	(1992)	(2003)	(2003)	(1998)

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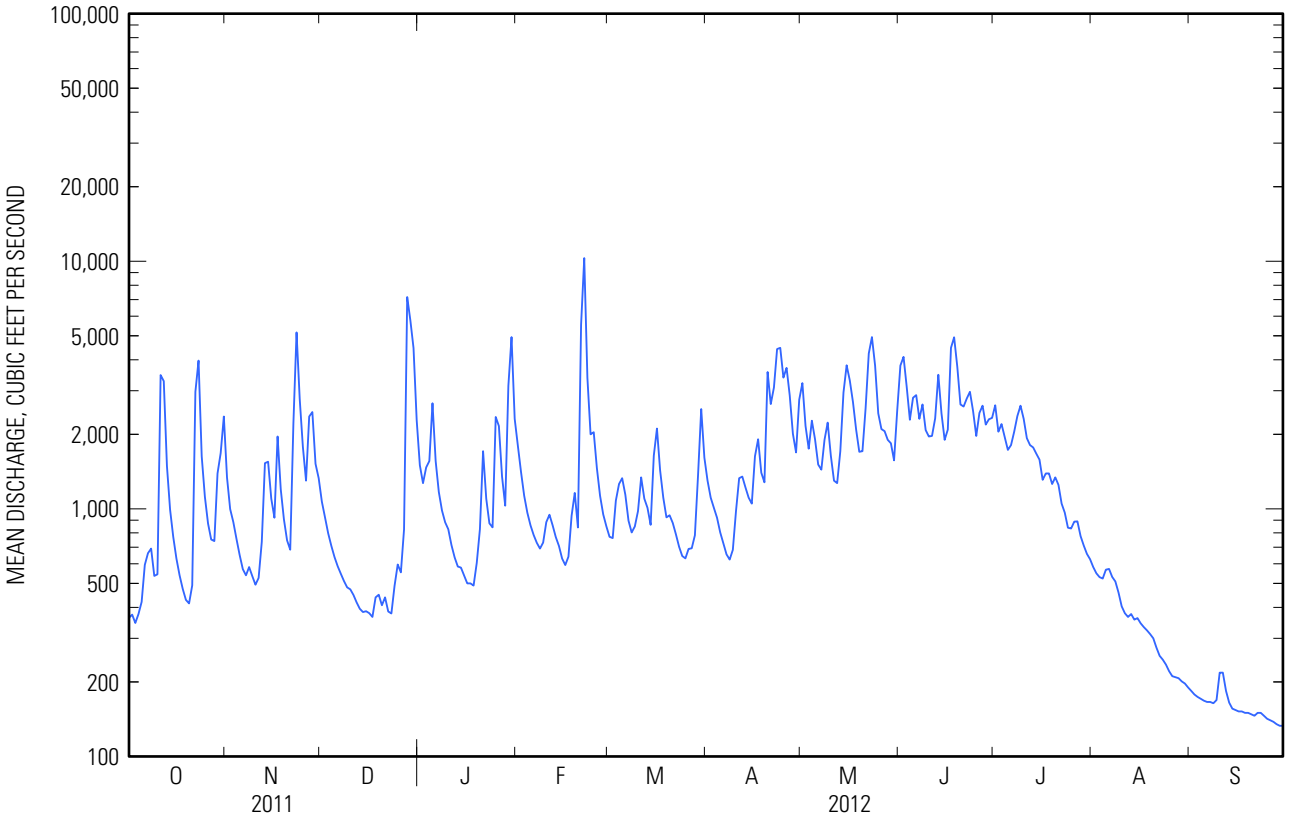
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1961 - 2012	
Annual total	570,012		504,090			
Annual mean	1,562		1,377		1,234	
Highest annual mean					1,832	1972
Lowest annual mean					774	2001
Highest daily mean	17,200	Jan 16	10,300	Feb 22	25,700	Jan 7, 2009
Lowest daily mean	224	Sep 17	133	Sep 29	91	Oct 29, 1987
Annual seven-day minimum	246	Sep 11	138	Sep 24	92	Oct 24, 1987
Annual runoff (ac-ft)	1,131,000		999,900		893,800	
Annual runoff (cfsm)	10.1		8.94		8.01	
Annual runoff (inches)	137.69		121.77		108.85	
10 percent exceeds	2,940		2,830		2,450	
50 percent exceeds	1,100		965		867	
90 percent exceeds	398		220		267