

SNOHOMISH RIVER BASIN

12143400 SOUTH FORK SNOQUALMIE RIVER ABOVE ALICE CREEK, NEAR GARCIA, WA

LOCATION.--Lat 47°24'55", long 121°35'10", in SW 1/4 SW 1/4 sec.6, T.22 N., R.10 E. King County, Hydrologic Unit 17110010, Snoqualmie National Forest, on left bank, 50 ft downstream from bridge, 0.4 mi upstream from Alice Creek, 1.5 mi southeast of Garcia, 11 mi southeast of North Bend, and at mile 17.3.

DRAINAGE AREA.--41.6 mi².

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR WA-80-1: 1978.

GAGE.--Water-stage recorder. Datum of gage is 1,437.67 ft above Washington Highway Department datum. Oct. 1, 1960 to Sept. 30, 1987, recording gage at same site at datum 10.00 ft higher.

REMARKS.--Records good. No regulation or diversion upstream from station. Chemical analyses October to November 1971. Water temperatures May 1979 to September 1980. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--42 years (water years 1961-2002), 302 ft³/s, 98.63 in/yr, 218,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,450 ft³/s Nov. 23, 1986, gage height, 8.33 ft, datum then in use; minimum discharge, 19 ft³/s Oct. 30, 31, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods in November and December 1959 reached stages of 14.7 ft and 13.4 ft respectively, from floodmarks, discharges not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	0700	2,640	14.34	May 28	0430	1,570	13.22
Dec. 17	0030	1,780	13.46	Jun. 13	2115	1,510	13.16
Jan. 08	0015	2,590	14.29	Jun. 29	0700	1,560	13.21
Apr. 14	0514	*3,210	*14.85				

Minimum discharge, 30 ft³/s Sept. 28, 29.

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	33	768	260	e117	158	217	264	692	921	494	95	45
2	33	638	271	143	145	e196	263	736	924	451	90	47
3	33	468	217	132	140	180	240	588	922	422	82	62
4	32	375	193	135	131	175	256	478	938	400	82	50
5	32	418	175	125	122	187	324	450	1060	362	83	45
6	32	310	197	196	129	168	480	393	1040	367	93	42
7	32	248	206	1640	159	152	656	342	753	411	82	41
8	50	211	186	2000	161	140	485	309	596	483	76	41
9	68	188	201	1140	150	132	457	292	543	348	74	43
10	95	169	173	683	142	138	668	283	700	392	74	41
11	309	153	155	514	140	565	745	314	861	410	73	40
12	269	148	146	598	122	577	1220	429	1020	368	70	38
13	529	309	900	510	112	407	1740	655	1220	332	69	38
14	594	2120	895	385	105	323	2300	705	1240	294	67	37
15	301	1170	474	313	102	274	1040	614	1070	252	64	37
16	197	787	1210	269	101	236	681	566	896	233	61	49
17	211	526	1180	234	100	205	498	680	732	226	60	59
18	156	390	626	214	120	185	396	719	1050	211	58	45
19	422	363	446	222	139	189	343	728	905	195	57	40
20	369	428	348	257	143	218	323	956	780	174	58	42
21	297	566	285	234	484	177	299	856	852	168	58	38
22	592	648	242	198	1180	161	318	900	881	164	57	35
23	786	701	212	182	1020	155	308	782	782	160	55	33
24	513	467	191	428	733	155	268	728	677	153	53	32
25	584	357	173	624	468	169	260	788	693	147	53	32
26	520	305	158	360	354	182	272	889	792	135	52	31
27	445	267	147	261	290	186	290	998	722	117	50	32
28	324	248	146	212	249	256	311	1450	710	112	49	31
29	250	235	133	183	---	260	381	1450	1170	114	48	35
30	272	210	124	175	---	258	508	1170	618	107	47	42
31	827	---	122	176	---	249	---	1040	---	99	46	---
TOTAL	9207	14191	10392	12860	7399	7072	16594	21980	26068	8301	2036	1223
MEAN	297	473	335	415	264	228	553	709	869	268	65.7	40.8
MAX	827	2120	1210	2000	1180	577	2300	1450	1240	494	95	62
MIN	32	148	122	117	100	132	240	283	543	99	46	31
AC-FT	18260	28150	20610	25510	14680	14030	32910	43600	51710	16470	4040	2430
CFSM	7.14	11.4	8.06	9.97	6.35	5.48	13.3	17.0	20.9	6.44	1.58	0.98
IN.	8.23	12.69	9.29	11.50	6.62	6.32	14.84	19.66	23.31	7.42	1.82	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

MEAN	179	388	378	352	320	272	390	541	458	193	71.4	86.6
MAX	420	1271	1115	743	764	715	660	858	1208	615	212	234
(WY)	1998	1991	1976	1984	1982	1972	1990	1997	1974	1974	1964	1968
MIN	21.2	61.3	77.7	87.7	77.0	125	171	259	95.6	64.1	34.5	26.0
(WY)	1988	1988	1986	1979	1969	1962	1967	1992	1992	1977	1987	1998

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1961 - 2002

ANNUAL TOTAL	91392	137323										
ANNUAL MEAN	250	376										
HIGHEST ANNUAL MEAN										302		
LOWEST ANNUAL MEAN										430		1972
HIGHEST DAILY MEAN										189		2001
LOWEST DAILY MEAN										6950		Nov 24 1990
ANNUAL SEVEN-DAY MINIMUM										19		Oct 30 1987
ANNUAL RUNOFF (AC-FT)	181300	272400								20		Oct 24 1987
ANNUAL RUNOFF (CFSM)	6.02	9.04								7.26		
ANNUAL RUNOFF (INCHES)	81.73	122.80								98.63		
10 PERCENT EXCEEDS	572	891								651		
50 PERCENT EXCEEDS	175	256								206		
90 PERCENT EXCEEDS	41	49								51		

e Estimated