Water-Data Report 2012

12210000 SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE, WA

Puget Sound Basin
Nooksack Subbasin

LOCATION.--Lat 48°40′40″, long 122°09′55″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.21, T.37 N., R.5 E., Whatcom County, WA, Hydrologic Unit 17110004, at Saxon Bridge, 1.3 mi downstream from Skookum Creek, and 2.5 mi northeast of Wickersham.

DRAINAGE AREA.--129 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jun. 2007 to Sept. 2008 (gage height only). Oct. 2008 to current year.

GAGE.--Water stage recorder. Datum of gage is 350 ft. above NGVD 29 from river profile map.

REMARKS.--Records good, except for estimated daily discharges which are poor. Small diversion upstream of gage for fish hatchery which is returned back to the river upstream of the gage. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft^3/s, Dec. 12, 2010, gage height 8.78 ft; minimum discharge, 99 ft^3/s, gage height 1.81 ft, Aug. 28-31, Sept. 1-3, 2009.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,300 ft^3/s, Nov. 23, gage height, 7.53 ft; Minimum discharge, 107 ft^3/s, Sept. 29, 30, gage height, 1.86 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 12210000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12210000.2012.pdf

12210000 SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE, WA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	200	445	803	881	1,440	545	1,080	2,830	2,070	2,070	362	156
2	202	361	692	816	1,060	509	883	1,790	2,100	1,340	353	152
3	205	517	598	2,070	868	721	866	1,450	1,440	2,620	334	149
4	225	420	530	4,260	788	1,300	836	1,580	1,180	1,850	345	146
5	213	343	480	4,500	701	1,850	698	1,300	1,510	1,320	376	144
6	260	300	443	1,930	640	1,150	603	1,090	1,270	1,270	378	143
7	245	284	414	1,260	597	790	536	1,090	1,330	1,290	345	140
8	253	412	380	1,000	593	663	516	1,400	1,540	1,350	330	139
9	237	404	357	957	697	745	572	1,390	1,190	1,410	302	139
10	277	411	346	853	1,010	1,800	795	1,020	996	1,190	281	202
11	1,870	654	331	702	1,020	1,400	1,030	852	1,020	1,050	268	164
12	1,060	667	306	615	830	1,040	1,090	908	1,250	1,020	263	146
13	582	878	299	548	702	951	1,020	1,310	1,400	973	259	136
14	389	991	287	532	622	768	886	1,810	1,090	912	247	129
15	306	580	283	482	544	1,150	783	2,000	917	881	243	125
16	259	475	277	438	505	1,430	1,480	1,780	1,920	747	238	124
17	228	974	278	429	524	1,030	1,670	e1,700	3,820	835	236	122
18	207	637	e325	397	857	815	1,070	e1,400	2,780	793	231	120
19	194	481	e300	410	767	680	1,000	e1,200	1,700	680	226	119
20	267	408	320	477	610	658	3,260	e1,300	1,360	730	221	118
21	488	399	312	2,200	1,640	607	1,780	e3,100	1,470	666	209	118
22	1,100	1,500	267	1,160	3,960	541	1,790	5,440	1,570	570	200	120
23	945	6,520	251	913	1,490	491	2,280	3,160	2,040	906	191	119
24	481	2,130	435	866	1,190	460	2,710	2,170	1,630	694	184	118
25	365	1,320	523	1,990	1,560	446	3,270	1,600	1,220	570	177	116
26	308	998	453	1,350	1,070	485	3,540	1,530	1,160	556	170	115
27	285	5,850	596	925	809	492	2,240	1,520	1,130	529	167	113
28	341	2,440	5,290	752	688	699	1,540	1,390	1,110	457	168	111
29	528	1,350	3,400	1,760	618	1,050	1,390	1,270	1,260	421	168	110
30	474	1,010	2,040	2,280	---	1,390	2,490	1,100	1,510	408	166	108
31	684	---	1,210	1,360	---	1,150	---	1,480	---	379	160	---
Total	13,678	34,159	22,826	39,113	28,400	27,806	43,704	52,960	45,983	30,487	7,798	3,961
Mean	441	1,139	736	1,262	979	897	1,457	1,708	1,533	983	252	132
Max	1,870	6,520	5,290	4,500	3,960	1,850	3,540	5,440	3,820	2,620	378	202
Min	194	284	251	397	505	446	516	852	917	379	160	108
Ac-ft	27,130	67,750	45,280	77,580	56,330	55,150	86,690	105,000	91,210	60,470	15,470	7,860
Cfsm	3.42	8.83	5.71	9.78	7.59	6.95	11.3	13.2	11.9	7.62	1.95	1.02
In.	3.94	9.85	6.58	11.28	8.19	8.02	12.60	15.27	13.26	8.79	2.25	1.14

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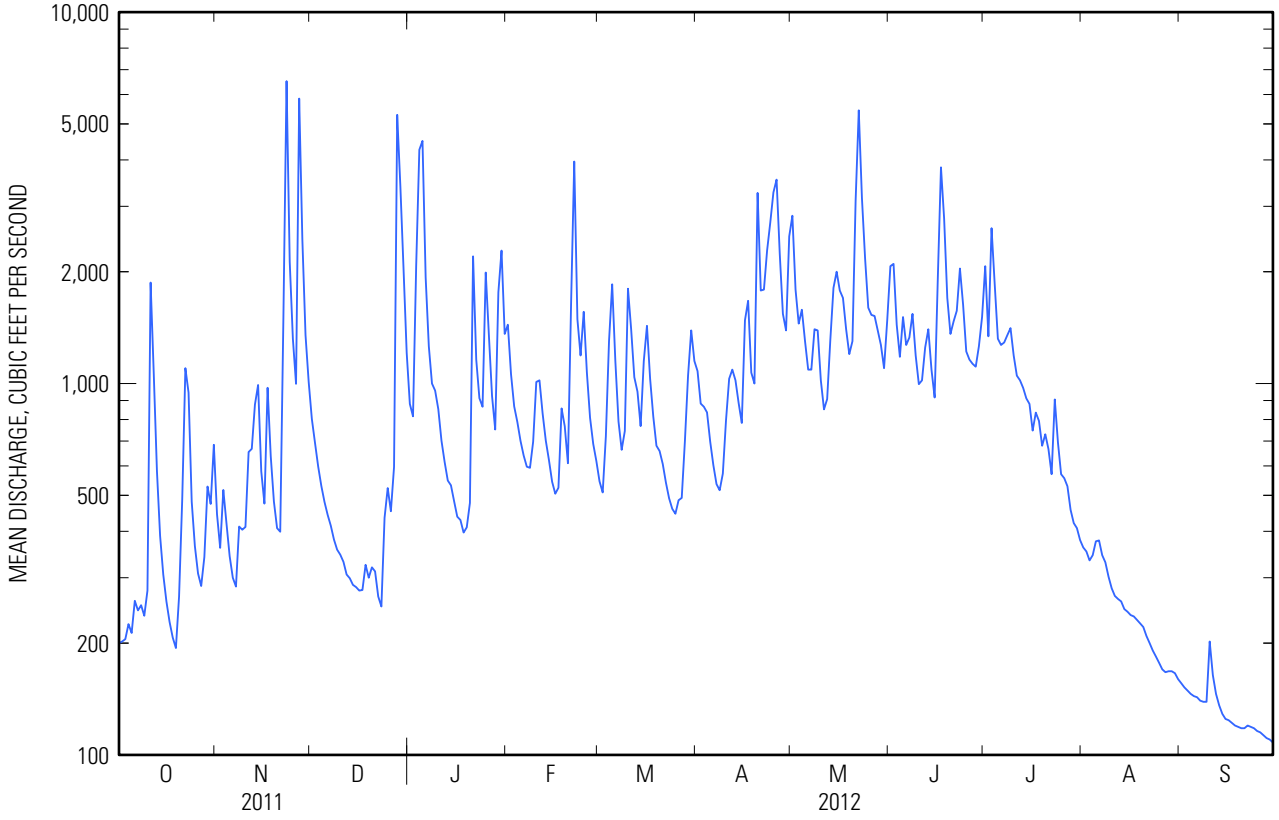

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 2008 to current year.

INSTRUMENTATION.--Temperature sensor with a 15-minute logging interval.

REMARKS.--Records are Excellent except for period from June 13 to current which is good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.4°C, July 28, 29, 2009; minimum, 0.0°C, on several days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 20.1°C, Aug. 17; minimum, 0.0 °C, Jan. 16-20.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	11.5	10.8	11.0	6.9	5.4	6.1	3.8	2.8	3.3	4.6	3.2	3.8
2	11.7	10.2	10.9	5.8	4.7	5.3	4.4	3.6	4.0	5.2	4.3	4.7
3	11.7	10.9	11.3	5.9	5.0	5.5	3.9	3.4	3.6	5.2	4.6	4.9
4	11.2	10.1	10.7	5.0	4.0	4.5	3.6	2.2	3.1	5.6	5.0	5.3
5	10.7	10.0	10.3	4.7	3.6	4.2	2.3	1.7	2.0	5.3	4.3	4.7
6	10.4	9.6	10	4.1	2.8	3.5	2.6	1.3	1.9	4.4	3.9	4.2
7	10.6	9.9	10.2	5.0	3.8	4.4	4.0	2.6	3.4	4.3	3.6	3.9
8	10.1	8.4	9.4	5.5	4.8	5.1	3.8	1.9	3.0	5.2	4.3	4.8
9	11.1	9.8	10.3	6.4	5.0	5.7	1.9	1.1	1.4	5.3	5.1	5.2
10	10.3	9.6	9.9	6.5	5.5	6.0	2.5	1.0	1.6	5.1	2.8	4.1
11	9.6	9.2	9.4	5.5	4.3	5.2	3.3	2.4	2.8	2.8	2.0	2.4
12	9.6	8.8	9.2	4.7	3.9	4.3	2.4	0.5	1.3	2.6	1.7	2.2
13	8.9	7.6	8.3	5.2	4.5	4.9	2.1	0.4	1.2	2.7	1.8	2.2
14	8.8	7.6	8.1	5.3	4.4	5.0	2.8	2.1	2.5	2.7	1.6	2.2
15	8.3	6.8	7.6	4.4	3.4	4.0	3.7	2.8	3.2	1.6	1.1	1.3
16	8.0	6.3	7.1	4.4	3.1	3.5	4.4	3.6	4.0	1.1	0.0	0.7
17	8.5	6.7	7.4	4.5	3.6	4.1	5.0	4.2	4.6	0.4	0.0	0.1
18	8.5	6.3	7.4	3.6	1.0	2.2	---	---	---	0.1	0.0	0.0
19	9.2	7.2	8.1	2.6	1.5	2.2	---	---	---	0.0	0.0	0.0
20	9.7	8.8	9.2	1.9	0.8	1.4	4.8	4.4	4.6	1.5	0.0	0.5
21	9.1	8.4	8.7	3.3	1.8	2.6	4.4	2.0	3.3	2.6	1.5	2.1
22	9.2	8.7	9.0	4.3	3.3	3.8	2.0	1.0	1.3	3.2	2.5	2.9
23	8.9	8.2	8.5	4.9	3.7	4.3	3.1	1.0	2.0	3.4	2.5	3.0
24	8.2	7.2	7.7	4.6	4.2	4.4	4.3	3.1	3.8	3.7	3.1	3.4
25	7.5	6.2	6.9	4.5	3.9	4.1	4.4	3.8	4.0	3.7	3.0	3.3
26	6.4	5.4	5.9	5.5	4.1	4.7	3.9	3.0	3.4	3.5	3.0	3.3
27	6.8	5.8	6.2	5.6	4.4	5.0	4.4	3.5	3.8	3.3	2.3	2.8
28	6.4	5.6	6.0	4.9	4.2	4.6	5.0	4.2	4.6	3.4	2.7	2.9
29	7.4	6.0	6.6	4.7	4.1	4.4	4.8	4.6	4.7	4.0	3.4	3.7
30	7.4	6.6	7.0	4.8	3.8	4.4	4.8	4.1	4.6	4.3	3.4	3.9
31	7.4	6.6	7.0	---	---	---	4.1	3.2	3.6	4.6	3.9	4.3
Month	11.7	5.4	8.6	6.9	0.8	4.3	---	---	---	5.6	0.0	3.0

12210000 SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	4.4	3.6	4.1	3.6	2.6	3.0	5.6	4.0	4.6	5.6	4.5	5.0
2	4.4	3.3	3.8	3.5	2.9	3.2	6.1	4.2	5.1	6.9	4.4	5.6
3	4.1	3.1	3.6	4.1	3.3	3.6	5.8	4.3	5.2	6.4	5.2	5.9
4	3.7	2.7	3.2	4.2	3.0	3.6	6.4	3.7	4.8	6.8	5.1	5.9
5	3.8	2.5	3.2	4.0	3.0	3.6	6.2	3.5	4.7	7.2	4.9	5.9
6	3.8	2.7	3.2	3.8	2.5	3.1	6.0	3.8	4.9	8.7	4.6	6.6
7	4.0	2.6	3.3	3.6	1.8	2.7	7.4	3.8	5.4	9.6	5.7	7.8
8	4.7	3.6	4.2	4.9	2.4	3.6	7.4	4.1	5.8	8.7	6.0	7.5
9	5.1	4.1	4.6	4.5	4.0	4.2	8.4	5.5	6.9	7.6	5.1	6.5
10	5.2	4.5	4.9	4.2	3.7	4.0	7.8	5.6	6.9	7.1	4.7	5.9
11	5.2	4.4	4.9	4.4	3.0	3.8	6.8	4.7	5.5	8.8	4.3	6.6
12	5.3	4.5	4.9	3.8	2.8	3.3	7.2	4.5	5.7	10.2	5.7	8.1
13	5.3	4.6	4.9	3.7	2.2	2.9	7.5	3.8	5.7	10.4	6.0	8.4
14	5.2	4.3	4.7	3.1	2.3	2.7	6.7	4.4	5.7	10.3	5.3	7.8
15	4.6	3.7	4.1	4.3	3.1	3.7	7.6	5.0	6.2	9.6	5.1	7.3
16	4.3	3.5	3.9	4.4	3.5	3.9	6.5	4.4	5.5	9.2	5.0	7.2
17	5.1	4.0	4.5	4.5	3.4	3.9	5.4	3.8	4.6	---	---	---
18	4.5	3.4	3.7	4.2	2.9	3.7	6.1	4.4	5.2	---	---	---
19	4.0	3.2	3.5	5.1	3.2	4.1	6.2	4.7	5.6	---	---	---
20	4.5	3.0	3.7	4.3	3.5	4.0	6.0	4.2	5.1	---	---	---
21	4.2	3.7	4.0	4.9	2.0	3.4	7.6	3.6	5.6	---	---	---
22	4.5	3.7	4.1	5.6	3.2	4.2	8.6	5.1	6.7	6.4	4.8	5.5
23	4.7	3.8	4.2	5.6	3.0	4.3	8.3	4.6	6.3	6.5	5.3	5.8
24	4.3	3.7	3.9	5.3	3.0	4.2	6.3	4.7	5.1	8.9	5.3	6.9
25	3.9	2.9	3.4	6.6	3.6	5.1	5.1	4.6	4.8	9.6	5.5	7.6
26	3.6	2.4	2.9	5.9	4.8	5.4	5.0	4.5	4.8	10.4	5.8	8.2
27	2.9	1.6	2.3	6.6	4.3	5.3	6.3	4.1	5.1	9.1	6.1	7.6
28	3.3	2.2	2.7	6.0	4.7	5.4	7.4	4.9	6.1	8.3	6.6	7.4
29	3.1	2.5	2.8	4.7	4.3	4.4	7.6	5.6	6.6	8.5	6.1	7.2
30	---	---	---	5.2	4.1	4.5	6.9	4.8	5.6	8.4	6.4	7.4
31	---	---	---	4.5	3.5	4.0	---	---	---	8.0	6.9	7.4
Month	5.3	1.6	3.8	6.6	1.8	3.9	8.6	3.5	5.5	---	---	---

12210000 SOUTH FORK NOOKSACK RIVER AT SAXON BRIDGE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	7.2	6.5	6.8	10.1	7.9	8.8	17.1	13.2	15.1	15.0	11.8	13.7
2	7.9	5.7	6.7	9.4	7.8	8.7	17.0	14.0	15.3	15.3	12.3	14.0
3	8.5	5.8	7.2	9.1	7.8	8.3	17.7	13.2	15.4	15.2	12.1	13.8
4	8.0	6.0	6.8	10.7	7.2	8.8	19.1	14.6	16.7	15.8	12.4	14.3
5	7.1	6.4	6.8	12.5	8.0	10.3	20.0	15.8	17.8	16.3	13.0	14.9
6	7.9	5.4	6.6	13.3	8.9	11.3	18.4	16.0	17.0	16.6	13.4	15.2
7	7.5	6.4	6.8	13.9	9.3	11.8	17.4	14.7	16.0	16.8	13.4	15.3
8	7.8	5.8	6.8	14.6	9.8	12.4	17.2	15.4	16.2	16.8	13.8	15.5
9	7.6	6.0	6.8	14.2	10.3	12.4	17.6	14.1	15.9	16.3	14.4	15.1
10	9.1	6.7	7.8	13.9	9.6	12.0	18.2	14.0	16.1	14.8	13.0	13.9
11	11.5	6.8	9.2	14.8	10.3	12.8	18.8	14.5	16.6	13.6	11.3	12.6
12	11.1	8.0	8.7	15.2	10.8	13.3	19.6	15.3	17.4	13.2	9.9	11.8
13	9.3	7.1	7.9	14.6	11.1	12.7	18.8	15.3	17.1	13.8	10.5	12.3
14	8.4	6.6	7.4	13.9	11.0	12.5	18.9	14.9	16.9	14.4	11.3	13.0
15	10.6	6.1	8.4	13.5	11.0	11.9	19.5	15.4	17.4	14.6	11.8	13.4
16	10.3	7.1	8.7	15.3	10.3	12.6	19.8	15.7	17.8	14.9	12.0	13.6
17	7.8	6.5	7.0	16.3	12.5	14.6	20.1	16.1	18.1	15.1	12.3	13.9
18	7.9	6.4	7.0	15.8	12.9	14.5	19.1	16.3	17.9	15.1	12.4	14.0
19	8.6	6.5	7.5	16.6	12.8	14.8	17.9	16.3	16.9	15.0	12.4	14.0
20	11.1	6.6	8.9	15.7	12.2	13.6	18.5	15.7	17.0	14.8	12.4	13.8
21	11.1	8.0	9.8	15.1	11.4	13.1	17.2	14.9	16.1	14.5	12.8	13.3
22	10.5	7.7	8.5	14.1	11.8	12.6	17.3	13.9	15.6	13.5	12.6	13.0
23	9.8	7.3	8.4	11.8	9.9	10.6	15.8	14.0	15.0	13.3	11.3	12.5
24	9.5	6.6	8.1	14.4	9.7	11.7	15.7	13.1	14.4	13.9	11.3	12.7
25	9.3	7.1	8.4	16.3	12.3	14.2	16.2	12.0	14.2	14.4	12.7	13.6
26	9.2	7.6	8.2	17.1	13.6	15.4	16.2	13.2	14.9	13.9	11.4	12.8
27	11.3	7.1	9.0	16.0	13.8	14.5	17.1	13.9	15.6	13.5	11.2	12.5
28	11.2	8.4	9.9	16.6	12.8	14.3	16.0	13.7	14.6	14.2	12.2	13.3
29	10.9	8.8	10	17.2	13.0	14.9	14.6	13.4	14.2	14.5	13.2	13.8
30	10.0	8.8	9.2	16.5	13.5	15.0	15.4	12.9	14.2	13.3	10.8	12.0
31	---	---	---	16.8	13.7	15.1	15.5	12.1	14.0	---	---	---
Month	11.5	5.4	8.0	17.2	7.2	12.6	20.1	12.0	16.0	16.8	9.9	13.6