

NOOKSACK RIVER BASIN

12209000 SOUTH FORK NOOKSACK RIVER NEAR WICKERSHAM, WA

LOCATION.--Lat 48°39'52", long 122°07'56", in lot 2, SW 1/4 SW 1/4 sec.26, T.37 N., R.5 E., Whatcom County, Hydrologic Unit 17110004, on left bank 0.5 mi upstream from Skookum Creek, 3.7 mi east of Wickersham, and at mile 14.8.

DRAINAGE AREA.--103 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to October 1977, June to September 1978, October 1980 to September 1995 (seasonal records), October 1995 to current year.

REVISED RECORDS.--WSP 832: 1935-36.

GAGE.--Water-stage recorder. Elevation of gage is 385 ft above NGVD of 1929, from river-profile map. Prior to July 9, 1934, nonrecording gage, at same site and datum.

REMARKS.--Records good except estimated discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--51 years (water years 1934-77, 1996-2002), 750 ft³/s, 98.88 in/yr, 543,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s Nov. 23, 1990, gage height, 13.20 ft, from rating curve extended above 11,000 ft³/s; minimum discharge, 59 ft³/s Oct. 20-25, 30, 31, 1987, gage height, 1.79 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	2245	7,350	7.70	Feb. 22	0530	11,100	9.35
Dec. 17	0100	6,610	7.32	Apr. 14	0415	7,270	7.66
Jan. 07	2145	*13,000	*10.35				

Minimum discharge, 94 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	135	1820	1080	493	374	557	1200	1300	1330	985	230	120
2	127	1420	1640	1480	356	499	764	1310	1360	804	217	132
3	121	1030	891	1260	451	461	614	1010	1400	717	210	211
4	116	1050	722	925	466	437	608	801	1390	664	218	142
5	111	1140	605	755	462	432	748	798	1680	e600	372	123
6	108	765	653	1210	728	384	1450	681	1590	608	254	115
7	110	613	621	7720	780	360	1810	574	1080	689	230	111
8	118	522	923	7210	624	336	980	512	887	1140	209	112
9	145	461	1050	3150	538	324	1010	477	904	775	201	131
10	231	417	729	1710	509	321	2190	499	1220	753	201	120
11	505	408	591	1270	509	1760	1580	537	1310	775	199	111
12	719	533	615	1920	427	1410	2850	781	1570	723	189	107
13	669	1070	2310	1590	381	887	3730	1190	1790	671	187	103
14	759	5080	2900	1080	341	732	4790	1380	1780	596	192	101
15	456	3700	1310	841	318	632	2010	970	1540	512	189	99
16	358	2140	5160	707	323	558	1420	830	1320	495	174	252
17	391	1310	3730	604	320	475	1120	1520	1080	496	160	384
18	483	932	1570	544	438	434	e930	1260	2040	467	152	174
19	1660	1100	1150	531	604	453	e830	1090	1200	441	147	150
20	743	1890	891	540	569	419	816	1430	1060	388	144	240
21	571	2150	737	502	3700	378	795	1280	1220	378	141	157
22	1730	1740	633	461	9240	391	880	1180	1280	385	137	131
23	3400	1890	555	442	4580	434	833	1060	1120	390	135	117
24	1530	1240	500	1100	2010	499	687	1010	985	381	137	111
25	1490	923	459	1670	1220	566	623	1160	976	362	138	105
26	1340	749	427	831	930	628	625	1260	1080	340	136	101
27	1910	678	403	616	753	622	594	1420	1070	294	131	99
28	1040	637	460	510	640	759	654	2270	1530	277	128	96
29	763	827	468	448	---	657	746	2500	3120	302	126	122
30	881	720	425	416	---	616	991	1970	1310	297	125	200
31	2740	---	444	400	---	623	---	1500	---	263	121	---
TOTAL	25460	38955	34652	42936	32591	18044	38878	35560	41222	16968	5530	4277
MEAN	821	1298	1118	1385	1164	582	1296	1147	1374	547	178	143
MAX	3400	5080	5160	7720	9240	1760	4790	2500	3120	1140	372	384
MIN	108	408	403	400	318	321	594	477	887	263	121	96
AC-FT	50500	77270	68730	85160	64640	35790	77110	70530	81760	33660	10970	8480
CFSM	7.97	12.6	10.9	13.4	11.3	5.65	12.6	11.1	13.3	5.31	1.73	1.38
IN.	9.20	14.07	12.52	15.51	11.77	6.52	14.04	12.84	14.89	6.13	2.00	1.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2002, BY WATER YEAR (WY)

	MEAN	630	1015	1059	940	794	696	840	1071	880	450	209	270
MAX	1806	3341	2164	2092	1847	1745	1456	1666	1740	1075	501	791	
(WY)	1968	1991	1976	1953	1951	1972	1959	1936	1937	1999	1954	1959	
MIN	68.6	126	500	194	288	324	401	540	263	123	81.5	79.7	
(WY)	1988	1937	1953	1937	1956	1955	1975	1994	1992	1940	1958	1998	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1934 - 2002

ANNUAL TOTAL	246417	335073	
ANNUAL MEAN	675	918	750
HIGHEST ANNUAL MEAN			1001
LOWEST ANNUAL MEAN			488
HIGHEST DAILY MEAN	5160	9240	14000
LOWEST DAILY MEAN	107	96	59
ANNUAL SEVEN-DAY MINIMUM	116	107	60
ANNUAL RUNOFF (AC-FT)	488800	664600	543100
ANNUAL RUNOFF (CFSM)	6.55	8.91	7.28
ANNUAL RUNOFF (INCHES)	89.00	121.02	98.88
10 PERCENT EXCEEDS	1400	1750	1480
50 PERCENT EXCEEDS	496	633	562
90 PERCENT EXCEEDS	146	137	150

e Estimated