

**12061500 SKOKOMISH RIVER NEAR POTLATCH, WA**

Puget Sound Basin  
Skokomish Subbasin

LOCATION.--Lat 47°18'36", long 123°10'33" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.15, T.21 N., R.4 W., Mason County, WA, Hydrologic Unit 17110017, on upstream side of right pier of bridge on U.S. Highway 101, 3.7 mi downstream from confluence of North and South Forks, 4.7 mi southwest of Potlatch, and at mile 5.3.

DRAINAGE AREA.--227 mi<sup>2</sup> of which 99 mi<sup>2</sup> probably is noncontributing, includes 99 mi<sup>2</sup> upstream from Cushman Dam No. 2, which is noncontributing except during spillage.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1943 to current year.

REVISED RECORDS.--WSP 1716: 1950(M), 1956. WSP 1932: Drainage area. WDR WA-72: 1968(M), 1971(M). WDR WA-75: 1974.

GAGE.--Water-stage recorder. Datum of gage is 10.67 ft above NGVD of 1929. Prior to May 27, 1964, water-stage recorders or nonrecording gage at several sites about 0.6 mi upstream at different datums. Supplementary water-stage recorder on right bank at site 0.6 mi upstream at datum 16.47 ft above NGVD of 1929 used Nov. 16 to Dec. 10, 1964, June 11 to July 7, and Nov. 2-24, 1965.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Above stages of about 15 ft, the river flows out of the main channel upstream from the gage into three channels that bypass the gage. Flow partly regulated at Lake Cushman and Cushman Reservoir No. 2. In normal years, almost entire flow of North Fork is diverted at Cushman Dam No. 2 and is discharged into Hool Canal through Cushman powerplant No. 2. Chemical analyses August 1960 to September 1961, October 1961 to September 1970 (partial-record station), October 1971 to September 1974. Water temperature May 1955 to September 1962, October 1963 to September 1982. Water temperature and specific conductance July 1996 to April 1998. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--65 years (water years 1944-2008), 1,222 ft<sup>3</sup>/s, 129.69 in/yr, 885,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,600 ft<sup>3</sup>/s, Nov. 23, 1990, gage height, 16.80 ft (floodmark), from rating curve extended above 14,000 ft<sup>3</sup>/s; maximum gage height, 17.75 ft, Mar. 19, 1997; minimum discharge, 99 ft<sup>3</sup>/s, Oct. 27, 28, Nov. 6-9, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1933 reached an elevation of 30.8 ft above NGVD of 1929 at site on left bank 150 ft upstream from old highway bridge, discharge, 18,600 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Dec. 3, gage height, 18.16 ft; minimum discharge, 228 ft<sup>3</sup>/s, Sept. 22-24, gage height, 11.69 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,320	543	701	817	732	1,120	697	801	772	680	466	457
2	1,180	516	844	885	686	975	673	746	751	653	460	446
3	1,060	495	e22,000	1,510	642	881	656	734	765	634	439	432
4	727	474	e20,200	3,680	597	806	646	762	769	611	427	414
5	559	454	e11,900	6,780	698	743	654	821	746	599	420	372
6	468	438	4,980	3,480	794	701	730	917	896	621	410	362
7	1,100	423	2,940	2,090	981	677	874	921	889	577	386	355
8	1,720	410	2,060	1,650	1,180	855	916	898	807	555	366	345
9	990	482	1,610	1,390	1,250	758	875	850	774	548	370	333
10	824	894	1,370	1,790	1,650	854	821	811	898	540	381	328
11	713	800	1,160	4,200	1,730	1,720	795	805	845	528	375	319
12	619	2,670	1,000	3,720	1,370	1,350	804	801	786	513	367	283
13	549	2,620	928	3,350	1,200	1,060	933	783	763	507	360	275
14	499	1,450	878	2,480	1,020	985	932	811	769	501	349	274
15	466	1,890	1,190	2,330	905	924	862	1,010	729	489	331	271
16	497	7,970	1,610	1,720	832	860	799	1,240	707	481	326	267
17	653	2,880	1,770	1,360	782	857	753	1,490	709	477	326	265
18	1,910	1,970	1,770	1,120	748	820	732	1,470	686	470	328	259
19	3,760	1,540	2,640	976	741	788	709	1,240	660	464	334	243
20	3,310	1,260	3,160	895	772	781	678	1,150	644	450	477	240
21	2,470	1,100	1,880	833	774	794	666	1,020	670	442	567	237
22	2,190	1,010	1,560	773	766	749	655	925	672	438	507	233
23	1,650	927	1,780	734	791	982	659	866	653	436	447	230
24	1,260	864	2,390	708	797	1,200	653	856	632	433	446	234
25	1,030	811	1,700	669	780	978	639	874	623	426	562	287
26	890	783	1,340	642	776	945	619	911	626	427	511	411
27	793	768	1,140	622	779	854	617	918	612	425	518	342
28	721	742	1,010	595	826	851	720	911	632	416	520	301
29	664	748	959	615	864	813	984	901	673	430	516	276
30	617	712	949	631	---	765	904	838	691	450	493	259
31	578	---	872	702	---	726	---	785	---	433	474	---
<b>Total</b>	35,787	38,644	100,291	53,747	26,463	28,172	22,655	28,866	21,849	15,654	13,259	9,350
<b>Mean</b>	1,154	1,288	3,235	1,734	913	909	755	931	728	505	428	312
<b>Max</b>	3,760	7,970	22,000	6,780	1,730	1,720	984	1,490	898	680	567	457
<b>Min</b>	466	410	701	595	597	677	617	734	612	416	326	230
<b>Ac-ft</b>	70,980	76,650	198,900	106,600	52,490	55,880	44,940	57,260	43,340	31,050	26,300	18,550
<b>Cfsm</b>	9.02	10.1	25.3	13.5	7.13	7.10	5.90	7.27	5.69	3.95	3.34	2.43
<b>In.</b>	10.40	11.23	29.15	15.62	7.69	8.19	6.58	8.39	6.35	4.55	3.85	2.72

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	824	1,989	2,453	2,295	2,056	1,603	1,188	835	557	353	253	296
<b>Max</b>	3,497	5,582	5,169	7,040	4,067	3,432	2,005	1,675	1,213	783	690	1,039
<b>(WY)</b>	(2004)	(1991)	(1995)	(2006)	(1995)	(1972)	(1969)	(1948)	(1956)	(1974)	(1991)	(1978)
<b>Min</b>	115	286	772	524	665	704	487	455	261	189	144	147
<b>(WY)</b>	(1988)	(1994)	(1986)	(1949)	(2005)	(2001)	(1973)	(2004)	(1992)	(1944)	(1944)	(1987)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1943 - 2008	
<b>Annual total</b>	481,692		394,737			
<b>Annual mean</b>	1,320		1,079		1,222	
<b>Highest annual mean</b>					1,993	1999
<b>Lowest annual mean</b>					635	1977
<b>Highest daily mean</b>	22,000	Dec 3	22,000	Dec 3	30,000	Dec 20, 1994
<b>Lowest daily mean</b>	173	Sep 27	230	Sep 23	99	Nov 7, 1987
<b>Annual seven-day minimum</b>	177	Sep 23	239	Sep 18	105	Oct 22, 1987
<b>Annual runoff (ac-ft)</b>	955,400		783,000		885,200	
<b>Annual runoff (cfsm)</b>	10.3		8.43		9.55	
<b>Annual runoff (inches)</b>	139.99		114.72		129.69	
<b>10 percent exceeds</b>	2,330		1,720		2,590	
<b>50 percent exceeds</b>	783		766		726	
<b>90 percent exceeds</b>	264		379		205	

