

SKOKOMISH RIVER BASIN

12060500 SOUTH FORK SKOKOMISH RIVER NEAR UNION, WA

LOCATION.--Lat 47°20'26", long 123°16'44", in SW 1/4 NE 1/4 sec.2, T.21 N., R.5 W., Mason County, Hydrologic Unit 17110017, on right bank 3.0 mi upstream from Vance Creek, 2.3 mi upstream from confluence with North Fork, and 8.5 mi west of Union.

DRAINAGE AREA.--76.3 mi².

PERIOD OF RECORD.--August 1931 to September 1984, October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 103.35 ft above NGVD of 1929.

REMARKS.--No estimated daily discharges. Records good except for discharges above 2,500 ft³/s, which are poor. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--60 years (water years 1932-84, 1996-2002), 747 ft³/s, 133.05 in/yr, 541,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft³/s Mar. 19, 1997, gage height, 8.98 ft, from rating curve extended above 10,000 ft³/s; maximum gage height, 11.0 ft Jan. 22, 1935, Nov. 26, 1949; minimum discharge, 62 ft³/s Sept. 18, 1938; minimum gage height, 0.21 ft Sept. 30, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	2230	8,130	5.35	Jan. 7	1530	*16,500	7.18
Dec. 13	2115	7,030	4.93	Feb. 21	2145	7,840	4.78
Dec. 16	1945	15,300	*7.24				

Minimum discharge, 73 ft³/s Sept. 30.

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	127	1000	2440	1010	694	694	426	551	440	356	128	89
2	122	825	2450	2400	655	625	419	563	425	306	126	89
3	120	645	1470	2040	944	570	404	504	419	279	124	90
4	118	524	1130	1490	894	531	403	456	402	261	127	89
5	115	460	907	1290	798	501	437	431	402	250	128	89
6	113	403	936	4000	1330	474	516	406	386	239	128	93
7	113	363	944	12400	1690	448	523	375	349	224	126	95
8	113	331	1010	6690	1190	416	466	355	322	222	121	91
9	113	305	1130	3420	930	415	552	340	300	215	115	94
10	128	285	931	2260	805	543	1060	331	318	212	113	90
11	147	272	796	1770	742	2570	1200	322	332	207	112	89
12	150	375	788	1790	668	2090	1760	330	342	197	108	89
13	191	835	3530	1560	604	1500	2530	392	359	196	105	89
14	167	4290	3500	1280	551	1090	3770	399	366	191	105	89
15	153	4550	1740	1090	512	883	2000	373	340	185	105	85
16	141	2280	8920	954	501	751	1600	345	316	177	105	111
17	133	1400	4850	853	484	650	1310	358	320	175	105	122
18	128	978	2170	773	493	593	1100	343	402	167	103	99
19	128	1940	1590	723	1130	558	970	337	316	163	102	91
20	128	4310	1280	737	994	649	884	352	286	162	102	89
21	134	4400	1030	710	3860	604	802	367	278	157	101	89
22	269	3560	885	663	6650	569	717	352	282	154	95	85
23	781	2130	765	624	3060	567	646	338	275	153	95	85
24	573	1510	678	2110	1980	587	592	324	260	149	95	85
25	814	1150	612	3460	1420	589	554	333	250	147	95	82
26	627	901	552	1730	1100	570	529	355	250	140	95	82
27	679	760	516	1210	908	541	515	368	251	140	95	82
28	572	788	663	936	783	512	486	609	321	138	92	82
29	445	1180	669	792	---	481	476	1150	945	134	92	78
30	465	1050	594	739	---	459	500	658	470	132	92	75
31	1410	---	629	752	---	432	---	505	---	131	90	---
TOTAL	9417	43800	50105	62256	36370	22462	28147	13222	10724	5959	3325	2687
MEAN	304	1460	1616	2008	1299	725	938	427	357	192	107	89.6
MAX	1410	4550	8920	12400	6650	2570	3770	1150	945	356	128	122
MIN	113	272	516	624	484	415	403	322	250	131	90	75
AC-FT	18680	86880	99380	123500	72140	44550	55830	26230	21270	11820	6600	5330
CFSM	3.98	19.1	21.2	26.3	17.0	9.50	12.3	5.59	4.69	2.52	1.41	1.17
IN.	4.59	21.35	24.43	30.35	17.73	10.95	13.72	6.45	5.23	2.91	1.62	1.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

	539	1170	1500	1338	1208	932	753	599	387	225	142	196
MEAN	539	1170	1500	1338	1208	932	753	599	387	225	142	196
MAX	1727	2952	3330	4030	2594	2138	1397	1259	909	479	294	795
(WY)	1968	1984	1967	1953	1961	1972	1937	1948	1956	1974	2001	1978
MIN	85.3	76.8	538	243	414	446	343	298	161	105	80.1	69.0
(WY)	1937	1937	1979	1949	1956	1942	1973	1947	1934	1944	1940	1938

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1931 - 2002

ANNUAL TOTAL		209862		288474								
ANNUAL MEAN		575		790								
HIGHEST ANNUAL MEAN									1058		1999	
LOWEST ANNUAL MEAN									423		2001	
HIGHEST DAILY MEAN			8920	Dec 16		12400	Jan 7		15800		Jan 15	1961
LOWEST DAILY MEAN			109	Aug 20		75	Sep 30		63		Sep 16	1938
ANNUAL SEVEN-DAY MINIMUM			114	Aug 14		81	Sep 24		64		Sep 13	1938
ANNUAL RUNOFF (AC-FT)		416300		572200					541300			
ANNUAL RUNOFF (CFSM)			7.54			10.4					9.79	
ANNUAL RUNOFF (INCHES)			102.32			140.65					133.05	
10 PERCENT EXCEEDS			1040			1750					1620	
50 PERCENT EXCEEDS			373			456					467	
90 PERCENT EXCEEDS			131			95					113	