

## SKAGIT RIVER BASIN

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12189500 SAUK RIVER NEAR SAUK, WA

LOCATION.--Lat 48°25'29", long 121°34'02", in NW 1/4 NW 1/4 sec.19, T.34 N., R.10 E., Skagit County, Hydrologic Unit 17110006, on left bank, 4.4 mi southeast of Rockport, 7.6 mi southeast of Sauk, 7.8 mi downstream from Suiattle River, and at mile 5.4.

DRAINAGE AREA.--714 mi<sup>2</sup>.

PERIOD OF RECORD.--August to October 1910 (fragmentary gage heights), March 1911 to August 1912, July 1928 to current year. Published as "near Suiattle Crossing, near Sauk" 1910-12.

REVISED RECORDS.--WSP 1286: 1929, 1937, 1939.

GAGE.--Water-stage recorder. Datum of gage is 266 ft above sea level (from river-profile survey). Prior to Aug. 4, 1912, nonrecording gages at several sites 1.0 mi downstream to 5.0 mi upstream from present site at various datums. July 24, 1928, to Sept. 16, 1929, nonrecording gage at present site and datum. U.S. Geological Survey satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No regulation. Small diversion for millpond at Darrington and for domestic use.

AVERAGE DISCHARGE.--73 years (water years 1929-2001), 4,343 ft<sup>3</sup>/s, 82.64 in/yr, 3,146,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 98,600 ft<sup>3</sup>/s Dec. 26, 1980, gage height, 18.24 ft, from rating extended above 50,000 ft<sup>3</sup>/s; minimum discharge, 572 ft<sup>3</sup>/s Dec. 5, 1929, but may have been less during period of ice effect Jan. 10-27, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 24	0300	*13,600	*7.80

Minimum discharge, 957 ft<sup>3</sup>/s Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6330	1640	2310	2150	1500	1070	4390	4960	6400	4910	2050	1850
2	3260	1510	2230	1970	1720	1250	3270	4260	6280	4670	1990	1890
3	2510	1440	2180	2000	1920	1160	2760	3780	4960	4620	2090	1590
4	2050	2410	1840	2260	2190	1100	2440	3480	4170	5210	2060	1510
5	1770	2690	1670	6040	3320	1080	2300	4480	3820	5290	1920	1400
6	1570	2150	1600	5250	2520	1140	2360	3940	3820	4360	1900	1290
7	1430	1900	1600	3670	2010	1250	2240	3620	3970	3900	2120	1240
8	1330	1930	1520	3030	1800	1610	2080	3850	4430	3960	2030	1210
9	1310	1860	1490	2690	1670	1850	1940	3940	6010	4200	2000	1240
10	1350	1690	1410	2400	1540	1650	1950	3700	5380	4270	2040	1250
11	1260	1530	1300	2180	1450	1530	1900	3730	4790	4120	2090	1290
12	1220	1470	1230	2020	1370	1460	1810	4970	4860	3880	2100	1320
13	1180	1410	1190	1890	1310	1660	1780	7040	4220	3630	2200	1370
14	1210	1340	1170	1810	1270	1850	1680	6820	4040	3380	2140	1430
15	1210	1270	1180	1690	1260	1680	1620	7730	3930	3080	2090	1440
16	1170	1220	1330	1580	1230	1660	1610	7570	3960	2790	2100	1440
17	1950	1170	2790	1510	1180	1520	2290	5960	3890	2710	2120	1380
18	2830	1150	2020	1500	1200	2410	2670	4730	3910	2580	1950	1260
19	2300	1140	1760	1630	1170	6500	2410	4340	4240	2390	1690	1170
20	5560	1120	1570	1560	1140	3860	2200	4030	5220	2270	1560	1080
21	6550	1100	1470	1770	1130	2940	2190	3910	6250	2370	1510	1050
22	3840	1060	1450	1940	1180	2500	2290	5790	6540	2460	2740	1100
23	3040	1100	1800	1660	1170	2250	2360	10200	5870	2510	4050	1210
24	2670	1540	1910	1550	1170	2240	2480	11800	4710	2650	2760	1250
25	2280	1360	1770	1490	1140	2920	3230	10200	4210	2570	2100	1230
26	2040	1880	1980	1410	1090	3360	4900	9400	4040	2360	1890	1420
27	1870	3540	3000	1340	1060	2810	5960	9000	4340	2300	1850	1750
28	2000	2310	2660	1290	1050	3110	5650	7510	6330	2820	1800	1260
29	1940	1920	2230	1400	---	2960	4790	5980	5220	3140	1810	1070
30	1720	2340	2190	1410	---	2780	4940	4690	4820	2430	1860	990
31	1640	---	2230	1530	---	3270	---	4210	---	2160	1840	---
TOTAL	72390	50190	56080	65620	41760	68430	84490	179620	144630	103990	64450	39980
MEAN	2335	1673	1809	2117	1491	2207	2816	5794	4821	3355	2079	1333
MAX	6550	3540	3000	6040	3320	6500	5960	11800	6540	5290	4050	1890
MIN	1170	1060	1170	1290	1050	1070	1610	3480	3820	2160	1510	990
AC-FT	143600	99550	111200	130200	82830	135700	167600	356300	286900	206300	127800	79300
CFSM	3.27	2.34	2.53	2.96	2.09	3.09	3.94	8.12	6.75	4.70	2.91	1.87
IN.	3.77	2.61	2.92	3.42	2.18	3.57	4.40	9.36	7.54	5.42	3.36	2.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	2860	4437	4668	4119	3785	3257	3982	6509	7884	5671	2829	2096
MAX	6770	14690	11580	8615	9062	9443	7375	10570	13520	10610	5529	4941
(WY)	1968	1996	1934	1974	1951	1972	1934	1949	1974	1972	1974	1959
MIN	751	724	1457	1199	793	1523	2039	4061	3715	2515	1625	1089
(WY)	1988	1930	1953	1979	1929	1955	1975	1977	1941	1941	1994	1942

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	1311010		971630		4343	
ANNUAL MEAN	3582		2662		6048	
HIGHEST ANNUAL MEAN					1972	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	14100	Jun 15	11800	May 24	69900	Nov 24 1990
LOWEST DAILY MEAN	1060	Nov 22	990	Sep 30	578	Dec 4 1929
ANNUAL SEVEN-DAY MINIMUM	1120	Nov 17	1110	Feb 23	604	Nov 29 1929
ANNUAL RUNOFF (AC-FT)	2600000		1927000		3146000	
ANNUAL RUNOFF (CFSM)	5.02		3.73		6.08	
ANNUAL RUNOFF (INCHES)	68.30		50.62		82.64	
10 PERCENT EXCEEDS	7170		4950		8320	
50 PERCENT EXCEEDS	2550		2040		3350	
90 PERCENT EXCEEDS	1390		1210		1530	