

SKAGIT RIVER BASIN

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 mi².

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 NGVD of 1929 (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.--Records good. No regulation. Small diversion for millpond at Darrington and for domestic use.

AVERAGE DISCHARGE.--74 years (water years 1929-2002), 4,352 ft³/s, 82.81 in/yr, 3,153,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 98,600 ft³/s Dec. 26, 1980, gage height, 18.24 ft, from rating extended above 50,000 ft³/s; minimum discharge, 572 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	1900	34,400	11.48	Apr. 14	0900	25,400	10.11
Dec. 17	0300	26,500	10.28	May 29	1215	16,200	8.42
Jan. 08	0300	*48,400	*13.32	June 29	1000	21,100	9.37
Feb. 22	1500	38,600	12.07				

Minimum discharge, 775 ft³/s Oct. 8.

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	988	6820	3690	2200	2320	3560	2790	5150	9260	8810	3530	2060
2	962	5330	4750	2720	2210	3230	2780	6050	e9200	7550	3220	2010
3	904	4380	3560	2900	2230	2980	2610	5550	e9950	7020	2860	2460
4	882	3640	3140	2740	2270	2820	2610	4650	e10000	6870	2720	1970
5	839	3940	2860	2540	2170	2790	2940	4350	10700	6210	2670	1660
6	820	3310	2830	3040	2340	2600	3710	3950	11800	6070	2810	1500
7	794	2860	2950	29500	2780	2470	4380	3530	8820	7310	2640	1440
8	795	2570	2860	36600	2660	2370	3660	3240	7240	10700	2520	1380
9	908	2380	3310	16700	2470	2250	3410	3110	6170	8700	2610	1330
10	916	2230	2830	9730	2360	2230	4390	2950	6580	8850	2900	1350
11	2050	2160	2570	7120	2510	4470	4970	2940	8260	10700	3020	1420
12	1870	2200	2440	6900	2280	5210	8370	3280	10700	10400	2810	1430
13	3270	2880	5900	6340	2150	4050	11100	4590	13300	9820	2830	1470
14	2930	22500	9320	5100	2020	3500	20400	5170	e15000	9730	2990	1430
15	2480	22200	5300	4370	1940	3110	11300	4700	e14900	8180	3040	1450
16	1930	12900	12300	3900	1950	2840	7800	4360	e13500	7330	2780	1480
17	2040	7900	17900	3520	1950	2600	6310	5160	e10900	7490	2550	1830
18	1770	5730	8340	3240	2020	2460	5210	5690	e10800	7170	2320	1470
19	2850	5250	5920	3110	2420	2450	4630	5510	9240	6920	2200	1330
20	3140	7700	4710	3130	2760	2440	4290	7430	8300	6070	2130	1520
21	2300	7740	4000	3140	8130	2290	4060	7970	9630	5760	2040	1330
22	3980	6550	3530	2880	33100	2300	3860	7160	11500	6040	2050	1220
23	7120	6620	3160	2730	20500	2390	3780	6450	11800	6280	2110	1200
24	4900	5220	2890	4050	10800	2480	3420	5890	10500	6440	2260	1180
25	4410	4350	2710	6460	7210	2550	3230	6150	10300	6230	2350	1150
26	4110	3830	2560	4270	5570	2670	3140	7030	12200	5970	2210	1120
27	5180	3470	2440	3340	4620	2740	3040	7730	13400	5140	2150	1120
28	3970	3240	2490	2890	4030	2780	3050	11100	12200	4500	2220	1060
29	3120	3370	2470	2620	---	2690	3260	15100	18200	4750	2250	1070
30	2910	3190	2320	2480	---	2560	3850	12700	11700	4590	2200	1250
31	7510	---	2250	2460	---	2550	---	10900	---	4170	2080	---
TOTAL	82648	176460	138300	192720	139770	88430	152350	189540	326050	221770	79070	43690
MEAN	2666	5882	4461	6217	4992	2853	5078	6114	10870	7154	2551	1456
MAX	7510	22500	17900	36600	33100	5210	20400	15100	18200	10700	3530	2460
MIN	794	2160	2250	2200	1940	2230	2610	2940	6170	4170	2040	1060
AC-FT	163900	350000	274300	382300	277200	175400	302200	376000	646700	439900	156800	86660
CFSM	3.73	8.24	6.25	8.71	6.99	4.00	7.11	8.56	15.2	10.0	3.57	2.04
IN.	4.31	9.19	7.21	10.04	7.28	4.61	7.94	9.88	16.99	11.55	4.12	2.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	MEAN	2857	4456	4665	4147	3801	3252	3997	6503	7925	5691	2825	2087
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	

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1929 - 2002
ANNUAL TOTAL	1190378	1830798	
ANNUAL MEAN	3261	5016	4352
HIGHEST ANNUAL MEAN			6048
LOWEST ANNUAL MEAN			2662
HIGHEST DAILY MEAN	22500	Nov 14	69900
LOWEST DAILY MEAN	794	Oct 7	578
ANNUAL SEVEN-DAY MINIMUM	849	Oct 3	604
ANNUAL RUNOFF (AC-FT)	2361000	3631000	3153000
ANNUAL RUNOFF (CFSM)	4.57	7.03	6.10
ANNUAL RUNOFF (INCHES)	62.02	95.39	82.81
10 PERCENT EXCEEDS	5940	10600	8340
50 PERCENT EXCEEDS	2480	3240	3340
90 PERCENT EXCEEDS	1230	1810	1530

e Estimated