

SKAGIT RIVER BASIN

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12194000 SKAGIT RIVER NEAR CONCRETE, WA

LOCATION.--Lat 48°31'28", long 121°46'11", in SE 1/4 NE 1/4 sec.16, T.35 N., R.8 E., Skagit County, Hydrologic Unit 17110007, on right bank at Dalles Bridge 1.3 mi southwest of Concrete, 2.4 mi downstream from Baker River, and at mile 54.1.

DRAINAGE AREA.--2,737 mi², of which 400 mi² is in Canada.

PERIOD OF RECORD.--September 1924 to current year.

REVISED RECORDS.--WSP 1566: 1957. WSP 1736: 1948. WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 130.0 ft above sea level. Prior to Dec. 10, 1924, nonrecording gage 200 ft upstream and Dec. 10, 1924, to Sept. 30, 1937, water-stage recorder at present site; both gages at datum 12.7 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Ross Reservoir (station 12175000) and Diablo and Gorge Reservoirs, Baker Lake, and Lake Shannon (stations 12176500, 12177700, 12191600, 12193000). Chemical analyses November 1970 to September 1971, October 1973 to September 1974. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--76 years (water years 1925-2000), 15,110 ft³/s, 10,950,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160,000 ft³/s Nov. 29, 1995, gage height, 41.57 ft; minimum discharge, probably less than 2,160 ft³/s during period Oct. 1-24, 1925, when recorder was not operating and gates in Baker River Dam were first closed; minimum daily recorded, 2,360 ft³/s Dec. 12, 1929.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1815 reached a stage of 69.3 ft present datum, from floodmarks at site 200 ft upstream, discharge about 500,000 ft³/s. Records of other floods, prior to establishment of station, are given in WSP 1527.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 103,000 ft³/s Nov. 12, gage height, 34.15 ft; minimum discharge, 4,970 ft³/s Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8000	16800	19300	16700	14300	11800	8940	15000	17200	23800	18800	7090
2	7660	14400	24600	16800	18600	11600	9090	15100	17600	22200	17000	5610
3	6680	13300	22300	16000	15200	11600	11900	17900	18500	20800	17200	5310
4	8280	15500	19000	17700	12700	11900	14400	17800	20700	19700	16800	5430
5	8610	13700	17600	17800	11300	11300	14900	15800	26800	18500	16700	8600
6	9000	17300	19200	16600	10500	11600	12900	14800	24400	18400	15800	9730
7	9370	18700	17800	16100	11400	11500	11400	13700	23000	18700	15800	9340
8	25500	15800	16700	14700	11700	10800	9360	12100	22500	19700	14700	10400
9	21400	17500	17200	15600	14700	10900	10100	12800	21900	19300	14200	12000
10	12700	21400	16900	16300	13700	10100	12400	14500	20200	19300	13200	15000
11	12100	22200	18200	16900	12800	10600	13800	13700	18700	19200	13000	12800
12	12200	86000	25200	16800	10600	10300	14700	13200	27500	19700	10100	11400
13	14700	79900	24500	16300	10300	8780	15900	11700	30900	19800	9040	11000
14	14400	65400	20800	16100	11700	11300	21300	11100	28200	19100	11300	10700
15	12400	42300	28800	14800	12500	11100	24100	12300	33000	17900	10600	10700
16	11300	33300	38400	13800	12500	11100	19100	15700	26800	17100	10400	9080
17	10700	33600	28900	14100	12200	11500	17100	17000	24600	17600	9750	9200
18	11000	30000	34300	14900	11900	12600	16600	14400	25800	18300	9670	11700
19	10700	27300	26900	15300	10700	14400	17200	15800	25500	18200	10100	13100
20	10600	27100	22200	14500	9350	13000	15600	17100	22900	18400	10900	12200
21	10600	24600	20300	12800	10100	12500	16000	20400	23600	18700	9660	10800
22	10700	21800	18700	10800	11400	12800	17400	26400	23700	20200	9510	8680
23	10600	20600	18100	11800	12400	16200	17100	23200	22400	21100	10200	8010
24	10900	21300	17900	13600	11700	14700	15400	20900	21800	20100	10700	5390
25	10600	26400	17000	13700	11800	13400	14600	18200	22200	19700	11000	6810
26	11600	24600	16500	13600	10300	12800	13700	18000	23200	18700	10500	8220
27	10900	22200	17700	13300	10400	11900	13900	20500	25800	15000	9760	8130
28	12700	20000	19200	13400	9740	11900	14900	21800	28900	16200	9870	8100
29	16600	17100	18500	11400	10100	11500	13900	19400	29000	16000	8850	7710
30	17000	19900	18600	10500	---	10800	13100	19300	27000	17100	7230	17600
31	22100	---	18000	11400	---	10600	---	18600	---	18000	7290	---
TOTAL	381600	830000	659300	454100	346590	366880	440790	518200	724300	586500	369630	289840
MEAN	12310	27670	21270	14650	11950	11830	14690	16720	24140	18920	11920	9661
MAX	25500	86000	38400	17800	18600	16200	24100	26400	33000	23800	18800	17600
MIN	6680	13300	16500	10500	9350	8780	8940	11100	17200	15000	7230	5310
AC-FT	756900	1646000	1308000	900700	687500	727700	874300	1028000	1437000	1163000	733200	574900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2000, BY WATER YEAR (WY)

MEAN	11140	15580	16100	14770	13820	12180	13830	20480	24660	19330	10870	8505
MAX	22550	49160	34660	25240	28840	23380	29270	36310	43320	37430	20930	16400
(WY)	1968	1991	1976	1935	1991	1972	1934	1925	1972	1972	1976	1959
MIN	3808	2876	5289	4485	3195	6224	7825	11440	12300	8856	6403	4852
(WY)	1926	1937	1930	1930	1929	1929	1973	1977	1926	1977	1941	1942

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	FOR 2000 WATER YEAR	FOR 2000 WATER YEAR	WATER YEARS 1925 - 2000
ANNUAL TOTAL	6783200	5967730			
ANNUAL MEAN	18580	16310			15110
HIGHEST ANNUAL MEAN					21270
LOWEST ANNUAL MEAN					9629
HIGHEST DAILY MEAN	86000	Nov 12	86000	Nov 12	135000
LOWEST DAILY MEAN	6680	Oct 3	5310	Sep 3	2360
ANNUAL SEVEN-DAY MINIMUM	7840	Sep 28	6650	Aug 30	2400
ANNUAL RUNOFF (AC-FT)	13450000		11840000		10950000
10 PERCENT EXCEEDS	28700		24200		26300
50 PERCENT EXCEEDS	16800		14900		12900
90 PERCENT EXCEEDS	9790		9740		6700