SKAGIT RIVER BASIN

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 mi^2, of which 400 mi^2 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 NGVD of 1929. 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.--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.--78 years (water years 1925-2002), 15,070 ft^3/s, 10,920,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160,000 ft^3/s Nov. 29, 1995, gage height, 41.57 ft; minimum discharge, probably less than 2,160 ft^3/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 ft^3/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 ft^3/s. Records of other floods, prior to establishment of station, are given in WSP 1527.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94,300 ft^3/s Jan. 8, gage height, 33.06 ft; minimum discharge, 3,370 ft^3/s Oct. 7.

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	6760	20900	15100	8710	16600	18700	14100	21600	25800	31200	13600	8190
2	6500	18200	16900	9410	16300	18000	14200	23500	25400	28500	12700	9600
3	6110	16400	15500	11400	16300	17500	14000	21200	24300	25500	12600	10100
4	5390	14400	14700	14700	16400	16900	13500	17900	23400	23800	11700	9210
5	4770	16700	14300	14500	16200	16800	13100	16900	25000	22800	11900	8190
6	4390	14800	13900	14900	15400	15200	12700	17700	28200	22600	13300	8220
7	4010	13100	13800	49200	14300	15700	15600	16600	22700	24600	11100	7240
8	4750	12200	13500	79700	13100	15600	15600	16300	18200	29900	10800	6130
9	6030	11900	14900	47700	12900	12900	13100	13600	16300	27400	11100	6540
10	6230	10900	14300	34900	12700	11800	17600	12800	19500	26300	12000	8100
11	7460	9510	12700	26000	13700	15700	19600	12900	25200	33100	11900	8510
12	7690	11000	12200	24200	13800	22000	22500	14400	29800	35600	11800	8450
13	9270	13800	15500	23900	13100	19600	27400	16400	33500	35100	12200	8570
14	8480	46700	24200	21200	10100	18600	43700	17600	37200	33600	12700	8240
15	8710	64800	19100	20800	9910	14400	31400	16700	37200	30600	12700	7660
16	9220	42700	26900	19700	9790	12700	23900	15700	35900	27800	11600	8390
17	9720	26600	38300	19000	12400	12600	20800	17000	29600	26200	11200	11000
18	9410	20400	24400	18400	12900	13600	18700	20900	30500	24300	10000	9690
19	10900	19500	19800	18100	13800	14300	18500	19700	28100	24300	9600	8870
20	11000	28000	17000	e17900	14800	14600	18800	23700	24500	22800	10300	9110
21	7560	25600	15100	e18200	20100	14000	18200	25300	29000	22300	9550	8550
22	13200	22700	10300	e17900	57200	11900	18200	23300	32100	22800	9200	7920
23	20800	20100	10600	17500	47600	10400	17700	23000	32600	23000	9420	8050
24	18400	17600	9970	19000	31300	10600	16800	19900	31000	23400	8260	8080
25	16500	15700	8360	22600	24800	10800	16800	21500	31200	22900	10000	7940
26	15800	15000	11000	20100	22700	12900	17200	23400	34200	22600	10300	6850
27	19500	15300	10800	18700	20800	13000	17000	24200	39400	21100	9780	6990
28	16300	14500	10200	17800	17900	12300	16700	29900	39100	19900	10900	4310
29	14300	14800	9950	17200	---	11300	17200	37000	53900	20600	12200	6170
30	13600	14500	9330	16800	---	11200	18400	33800	37300	18500	10500	4200
31	21100	---	9440	16800	---	10500	---	30300	---	16300	8670	---
TOTAL	323860	608310	472050	696920	516900	446100	563000	644700	900100	789400	343580	239070
MEAN	10450	20280	15230	22480	18460	14390	18770	20800	30000	25460	11080	7969
MAX	21100	64800	38300	79700	57200	22000	43700	37000	53900	35600	13600	11000
MIN	4010	9510	8360	8710	9790	10400	12700	12800	16300	16300	8260	4200
AC-FT	642400	1207000	936300	1382000	1025000	884800	1117000	1279000	1785000	1566000	681500	474200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

MEAN	11130	15570	15980	14790	13800	12140	13810	20400	24590	19300	10860	8478
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	7716	11440	12300	8856	6403	4852
(WY)	1926	1937	1930	1930	1929	1929	2001	1977	1926	1977	1941	1942

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1925 - 2002	
ANNUAL TOTAL	4010760		6543990			
ANNUAL MEAN	10990		17930		15070	
HIGHEST ANNUAL MEAN					21270	1991
LOWEST ANNUAL MEAN					9512	2001
HIGHEST DAILY MEAN	64800	Nov 15	79700	Jan 8	135000	Nov 10 1990
LOWEST DAILY MEAN	4010	Sep 22	4010	Oct 7	2360	Dec 12 1929
ANNUAL SEVEN-DAY MINIMUM	4780	Mar 1	5060	Oct 3	2400	Oct 17 1925
ANNUAL RUNOFF (AC-FT)	7955000		12980000		10920000	
10 PERCENT EXCEEDS	16800		30100		26200	
50 PERCENT EXCEEDS	9410		16200		12800	
90 PERCENT EXCEEDS	5660		8500		6700	

e Estimated