

SKAGIT RIVER BASIN

12181000 SKAGIT RIVER AT MARBLEMOUNT, WA

LOCATION.--Lat 48°32'02", long 121°25'43", in NE 1/4 SW 1/4 sec.7, T.35 N., R.11 E., Skagit County, Hydrologic Unit 17110005, on right bank 0.5 mi north of Marblemount, 0.6 mi upstream from Cascade River, and at mile 78.7.

DRAINAGE AREA.--1,381 mi², of which 400 mi² is in Canada.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1943 to July 1944, October 1946 to September 1951, May 1976 to current year.

REVISED RECORDS.--WDR WA-76-1: Drainage area. WDR WA-90-1: 1983, 1976-87 (M).

GAGE.--Water-stage recorder. Datum of gage is 305.1 ft above NGVD of 1929 (river-profile survey).

REMARKS.--Records good. All diversions returned to river upstream from gage. Flow regulated by Ross Reservoir (station 12175000), Diablo Reservoir (station 12176500), and Gorge Reservoir (station 12177700) since 1960. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--31 years (water years 1947-51, 1977-2002), 6,068 ft³/s, 4,396,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,300 ft³/s Nov. 29, 1995, gage height, 13.73 ft, from rating curve extended above 30,000 ft³/s; minimum discharge, 620 ft³/s Mar. 6, 1944, gage height, 0.55 ft; minimum daily discharge, 1,190 ft³/s Feb. 25, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,000 ft³/s Jan. 7, gage height, 9.55 ft; minimum discharge, 1,650 ft³/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	3060	5560	4190	3070	7710	8620	6620	9440	7270	14400	5630	4200
2	3210	5380	4530	3150	7570	8470	6480	9800	7530	13300	6180	5270
3	2890	4510	4640	6240	7560	8390	6360	7420	8050	11100	5390	5050
4	2560	3860	4520	6730	7570	8340	6410	6060	8360	9930	4830	4380
5	2530	5460	4760	6840	7500	8280	6650	5890	9620	9720	4890	3860
6	1840	4860	3960	7480	7590	8230	7140	7880	9400	9940	5050	3450
7	1760	e3740	4050	21400	6980	8480	7490	8180	8390	10400	4760	2610
8	3100	4110	3820	22800	6250	7990	7120	8260	6990	11600	4480	3230
9	2930	3370	4800	11600	6280	8260	7010	6020	6970	10500	4940	3690
10	3150	3330	4810	9390	6240	8180	7950	8290	7670	10400	5170	3910
11	3520	2870	4650	8660	6240	8810	7600	8380	9640	15900	4750	3970
12	3600	3760	4820	8960	6050	9250	6960	8580	10800	17700	5310	4010
13	3480	5160	5610	8630	6110	8770	8810	9340	11700	17600	5570	3990
14	2780	16000	e5250	7840	6060	8650	13800	9470	12200	16000	5890	3670
15	3380	16500	e5250	8630	6040	8040	9060	9180	11900	14700	5600	3470
16	2770	9400	e5100	8340	5960	7920	6690	8710	11700	13000	4990	4240
17	3180	5360	e6250	8190	6020	7660	6060	9260	10400	11100	4840	4200
18	3080	4070	6160	8040	6150	7760	5720	9160	11500	10000	4620	3420
19	3640	4220	5050	7990	6270	7750	6960	8650	10300	10200	4970	2890
20	3440	7030	4330	7940	6530	7680	7290	10100	10700	9850	4530	2670
21	2860	6060	3530	7880	8430	7600	7280	9990	11800	9870	4050	2480
22	4350	4980	3670	7780	18700	6920	7330	9280	12400	10000	3780	2390
23	6070	4670	3340	7970	13700	6670	6830	8830	12100	9940	3710	2390
24	5240	4010	3420	e8000	9700	6750	6720	8330	11600	10000	4030	2400
25	4940	3400	3100	e7800	9310	6820	7370	8160	11800	9830	4350	2370
26	4920	4410	3640	8030	9390	7400	7780	8710	12700	9850	4370	2360
27	6460	4500	3630	7970	9020	7960	7660	8800	12700	9400	4320	3340
28	4940	4440	2930	7780	8700	7720	7620	10600	13300	9220	4870	2270
29	4590	4460	2880	7720	---	6990	7800	12100	16600	9330	4910	2250
30	4710	4290	2750	7670	---	6970	8260	10800	13900	6830	4130	2330
31	6470	---	2830	7710	---	6420	---	9460	---	5430	3650	---
TOTAL	115450	163770	132270	268230	219630	243750	222830	273130	319990	347040	148560	100760
MEAN	3724	5459	4267	8653	7844	7863	7428	8811	10670	11190	4792	3359
MAX	6470	16500	6250	22800	18700	9250	13800	12100	16600	17700	6180	5270
MIN	1760	2870	2750	3070	5960	6420	5720	5890	6970	5430	3650	2250
AC-FT	229000	324800	262400	532000	435600	483500	442000	541800	634700	688400	294700	199900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

MEAN	4199	6588	6216	6618	6773	5908	5642	6518	7518	7768	4937	3885
MAX	7258	22270	12120	8719	13830	9415	9534	10690	13590	14730	9214	5240
(WY)	1948	1991	1996	1980	1991	1997	1951	1997	1997	1950	1999	1978
MIN	2071	1864	2609	2450	2115	2222	3035	3680	3492	2891	2884	2144
(WY)	1978	1944	1944	1944	1944	1948	2001	1977	2001	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1943 - 2002
ANNUAL TOTAL	1382470	2553490	
ANNUAL MEAN	3788	6996	6068
HIGHEST ANNUAL MEAN			9617
LOWEST ANNUAL MEAN			3710
HIGHEST DAILY MEAN	16500	22800	50000
LOWEST DAILY MEAN	1760	1760	1190
ANNUAL SEVEN-DAY MINIMUM	2250	2390	1520
ANNUAL RUNOFF (AC-FT)	2742000	5065000	4396000
10 PERCENT EXCEEDS	4940	10800	9220
50 PERCENT EXCEEDS	3490	6820	5460
90 PERCENT EXCEEDS	2750	3250	3210

e Estimated