

ST. CROIX RIVER BASIN--Continued

05338500 SNAKE RIVER NEAR PINE CITY, MN

LOCATION.--Lat 45°50'30", long 92°56'00", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, T. 39 N., R. 21 W., Pine County, Hydrologic Unit 07030004, on left bank at site of former power plant and dam, 0.5 mi downstream from Cross Lake and 1.5 mi northeast of Pine City.

DRAINAGE AREA.--974 mi².

PERIOD OF RECORD.--June 1913 to September 1917, July 1951 to Sept. 1981, Oct. 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 919.00 ft above sea level (NGVD of 1929). June 25, 1913 to Sept. 30, 1917, nonrecording gage at site 500 ft downstream at different datum. July 1 to Oct. 28, 1951, nonrecording gage at present site and datum.

REMARKS.--Records good.

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	60	160	266	e125	e112	119	205	6660	1340	1260	270	183
2	63	222	245	e120	e113	118	227	5570	1210	1020	256	189
3	59	217	223	e120	e115	117	267	4550	1080	857	236	183
4	55	203	226	121	116	116	348	3740	1000	721	216	160
5	56	207	236	116	114	116	509	3080	933	595	204	137
6	59	270	199	114	115	115	730	2640	866	515	197	127
7	51	402	185	111	118	114	1480	2380	799	463	178	176
8	50	506	177	114	e117	111	2830	2120	728	411	164	177
9	51	618	e160	114	e118	110	4790	1960	656	368	152	160
10	52	736	e160	112	e120	111	6540	1940	672	321	122	157
11	53	787	e155	111	e120	117	7750	1880	699	279	111	139
12	53	826	e155	107	e120	127	9040	1810	749	257	104	135
13	66	875	e150	106	119	128	9600	1700	786	235	93	119
14	84	863	e145	110	e120	120	9660	1560	900	217	91	107
15	72	831	147	118	e120	117	9440	1440	1160	203	133	108
16	74	811	148	117	e121	115	8850	1300	1750	184	269	108
17	75	762	146	122	e121	119	8000	1160	2580	190	234	107
18	73	681	151	118	e122	120	7110	1000	3450	218	256	104
19	75	596	147	e118	123	116	6190	857	4320	223	246	106
20	80	530	141	e119	e123	119	5380	741	4770	247	238	114
21	66	462	148	120	e123	129	4780	752	5020	254	205	147
22	71	431	145	120	123	135	4330	776	4970	246	187	141
23	81	418	e140	113	122	142	5270	844	4680	247	163	148
24	84	401	e140	110	e122	158	6600	1050	4220	218	149	139
25	91	372	e140	e110	e122	157	8380	1340	3690	188	143	138
26	115	343	e140	112	e123	159	10200	1530	3150	172	131	133
27	120	323	141	e110	e125	149	10900	1610	2670	161	132	124
28	111	306	138	107	e122	152	10500	1640	2220	206	128	118
29	110	295	e133	108	---	158	9320	1620	1850	206	125	116
30	124	281	e130	e109	---	164	7930	1570	1540	214	187	118
31	131	---	125	e110	---	191	---	1480	---	216	178	---
TOTAL	2365	14735	5082	3542	3349	4039	177156	62300	64458	11112	5498	4118
MEAN	76.3	491	164	114	120	130	5905	2010	2149	358	177	137
MAX	131	875	266	125	125	191	10900	6660	5020	1260	270	189
MIN	50	160	125	106	112	110	205	741	656	161	91	104
AC-FT	4690	29230	10080	7030	6640	8010	351400	123600	127900	22040	10910	8170
CFSM	.08	.51	.17	.12	.12	.14	6.16	2.10	2.24	.37	.19	.14
IN.	.09	.57	.20	.14	.13	.16	6.88	2.42	2.50	.43	.21	.16

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	321	411	218	147	158	611	2315	1091	628	466	303	265
MAX	1189	866	402	266	277	1611	5905	2726	2149	1081	1080	1030
(WY)	1982	1996	1992	1992	1998	1992	2001	1979	2001	1993	1995	1995
MIN	76.3	164	88.0	58.4	99.2	130	666	203	167	104	76.8	59.3
(WY)	2001	1979	1981	1981	1993	2001	2000	1998	1997	1980	1998	1998

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1979 - 2001

ANNUAL TOTAL	138514	357754	
ANNUAL MEAN	378	980	572 592a
HIGHEST ANNUAL MEAN			980 1223 2001 1972
LOWEST ANNUAL MEAN			305 177 1998 1959
HIGHEST DAILY MEAN	1970 Mar 5	10900 Apr 27	10900 Apr 27 2001
LOWEST DAILY MEAN	43 Sep 22	50 Oct 8	37 Sep 22 1998
ANNUAL SEVEN-DAY MINIMUM	52 Sep 22	53 Oct 6	42 Sep 18 1998
MAXIMUM PEAK FLOW		11000 Apr 27	14300 Jul 27 1972
MAXIMUM PEAK STAGE		9.23 Apr 27	10.38 Jul 27 1972
INSTANTANEOUS LOW FLOW		47 Oct 8	5.5b Oct 1 1964
ANNUAL RUNOFF (AC-FT)	274700	709600	414300 428700
ANNUAL RUNOFF (CFM)	.40	1.02	-.60 .62
ANNUAL RUNOFF (INCHES)	5.38	13.89	8.11 8.39
10 PERCENT EXCEEDS	855	2930	1380 1440
50 PERCENT EXCEEDS	218	163	240 219
90 PERCENT EXCEEDS	69	108	105 76

- a Median of annual mean discharges is 530 ft³/s.
- b Result of dam rehabilitation.
- e Estimated.

2003 revisions in italics

