

## 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 mi<sup>2</sup>.

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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	326	202	119	85	1730	1090	566	273	279	469	70
2	181	381	214	121	85	1850	996	519	271	260	400	72
3	169	422	215	119	88	1910	947	493	248	242	334	79
4	166	438	214	121	87	1940	851	469	261	219	283	70
5	163	438	203	117	87	1970	800	442	278	202	240	66
6	144	406	189	119	88	1670	787	415	269	175	228	63
7	147	382	186	119	87	1360	685	390	260	172	191	74
8	175	365	192	110	86	1160	688	415	260	212	165	61
9	166	350	197	108	88	1120	662	410	245	474	154	60
10	170	316	183	110	99	1180	597	466	245	813	135	97
11	162	309	177	113	95	1310	595	589	218	1390	117	89
12	171	303	176	108	93	1380	548	689	190	1780	113	79
13	167	305	171	110	94	1380	527	702	184	1790	115	65
14	160	285	170	105	92	1300	504	660	205	1630	107	65
15	165	265	182	105	104	1200	488	614	194	1400	135	54
16	181	256	158	107	104	1070	482	600	215	1190	106	53
17	165	246	147	99	100	919	502	567	196	974	128	56
18	152	226	144	100	96	800	488	525	236	768	119	57
19	166	241	149	103	94	721	450	526	300	649	109	61
20	153	226	153	104	97	647	499	502	400	549	108	63
21	170	222	135	101	97	594	539	478	437	465	116	50
22	162	234	126	99	97	550	590	452	452	395	116	43
23	135	247	120	97	108	524	679	431	483	335	113	58
24	137	250	116	95	130	566	758	391	516	281	106	57
25	151	238	113	93	191	680	787	325	498	296	102	53
26	138	251	108	93	428	810	780	284	484	458	104	54
27	132	244	108	91	753	1050	747	270	428	557	99	49
28	140	232	110	88	1140	1160	685	295	386	615	97	49
29	139	216	112	88	1480	1210	628	292	345	618	94	56
30	194	195	114	88	---	1210	606	278	312	592	81	55
31	208	---	115	88	---	1190	---	269	---	535	85	---
TOTAL	5014	8815	4899	3238	6273	36161	19985	14324	9289	20315	4869	1878
MEAN	162	294	158	104	216	1166	666	462	310	655	157	62.6
MAX	208	438	215	121	1480	1970	1090	702	516	1790	469	97
MIN	132	195	108	88	85	524	450	269	184	172	81	43
AC-FT	9950	17480	9720	6420	12440	71730	39640	28410	18420	40290	9660	3730
CFSM	.17	.31	.16	.11	.23	1.22	.70	.48	.32	.68	.16	.07
IN.	.19	.34	.19	.13	.24	1.40	.78	.56	.36	.79	.19	.07

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	339	405	222	149	161	651	2016	1014	501	475	313	276
MAX	1189	866	402	266	277	1611	4409	2726	1299	1081	1080	1030
(WY)	1982	1996	1992	1992	1998	1992	1997	1979	1993	1993	1995	1995
MIN	102	164	88.0	58.4	99.2	185	666	203	167	104	76.8	59.3
(WY)	1999	1979	1981	1981	1993	1980	2000	1998	1997	1980	1998	1998

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1979 - 2000

ANNUAL TOTAL	183434	135060	
ANNUAL MEAN	503	369	583538 <sup>a</sup>
HIGHEST ANNUAL MEAN			781 1223 1995 1972
LOWEST ANNUAL MEAN			305 177 1998 1959
HIGHEST DAILY MEAN	4450	May 18	1970 Mar 5 10100 Apr 9 1997
LOWEST DAILY MEAN	102	Jan 17	43 Sep 22 37 Sep 22 1998
ANNUAL SEVEN-DAY MINIMUM	108	Jan 17	52 Sep 22 42 Sep 18 1998
INSTANTANEOUS PEAK FLOW			2030 Mar 5 14300 Jul 27 1972
INSTANTANEOUS PEAK STAGE			4.99 Mar 5 10.38 Jul 27 1972
INSTANTANEOUS LOW FLOW			37 Sep 22 5.5 <sup>b</sup> Oct 1 1964
ANNUAL RUNOFF (AC-FT)	363800	267900	<del>389700</del> 422100
ANNUAL RUNOFF (CFSM)	.52	.39	-56 0.61
ANNUAL RUNOFF (INCHES)	7.12	5.24	7.63 8.26
10 PERCENT EXCEEDS	1160	811	1350 1410
50 PERCENT EXCEEDS	303	215	245 220
90 PERCENT EXCEEDS	117	88	105 76

<sup>a</sup> Median of annual mean discharges is 530 ft<sup>3</sup>/s.  
<sup>b</sup> Result of dam rehabilitation.

2003 revisions in italics

