

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. 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 except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	116	328	140	111	126	1160	496	508	520	445	529
2	65	106	322	134	115	139	1240	447	473	496	489	491
3	57	114	315	129	117	144	1190	392	422	508	520	454
4	48	118	290	130	e116	148	1300	354	383	531	508	440
5	61	113	331	131	115	152	1270	369	413	571	491	438
6	98	114	338	127	116	148	1430	418	426	626	485	413
7	97	108	345	e120	114	140	1540	520	471	629	480	390
8	81	105	398	e118	114	144	1600	650	512	640	451	395
9	76	97	411	e114	115	169	1670	828	562	648	433	354
10	75	173	407	e114	116	153	1710	996	604	630	424	340
11	73	239	387	e117	e116	147	1800	1200	617	620	382	316
12	98	217	366	123	e116	145	1770	1430	608	603	394	330
13	73	244	348	122	e119	138	1710	1830	574	568	486	310
14	58	284	333	119	124	137	1630	2350	520	529	598	280
15	62	282	321	119	124	137	1560	3050	468	486	770	266
16	84	284	298	110	130	142	1480	3810	429	456	937	259
17	138	280	260	102	129	169	1400	4320	389	420	958	255
18	153	272	242	112	129	186	1340	4450	336	380	939	244
19	147	361	236	113	126	219	1310	4210	299	355	923	246
20	133	332	212	107	122	270	1240	3820	275	332	868	222
21	135	329	194	106	124	313	1160	3340	251	318	812	207
22	137	359	180	107	120	345	1070	2850	417	297	762	198
23	135	385	175	106	118	381	1010	2410	513	283	759	183
24	133	354	167	109	119	393	942	2010	580	264	701	172
25	130	391	158	114	119	404	861	1670	593	257	716	165
26	129	379	149	110	118	398	775	1400	577	345	803	187
27	128	379	144	119	121	379	701	1170	585	333	842	175
28	118	372	137	114	126	488	635	954	574	358	790	176
29	113	365	145	111	---	599	590	791	566	386	694	177
30	133	365	151	111	---	812	547	674	543	390	627	202
31	119	---	138	115	---	1060	---	593	---	421	577	---
TOTAL	3168	7637	8226	3623	3349	8725	37641	53802	14488	14200	20064	8814
MEAN	102	255	265	117	120	281	1255	1736	483	458	647	294
MAX	153	391	411	140	130	1060	1800	4450	617	648	958	529
MIN	48	97	137	102	111	126	547	354	251	257	382	165
AC-FT	6280	15150	16320	7190	6640	17310	74660	106700	28740	28170	39800	17480
CFSM	.11	.27	.28	.12	.12	.29	1.31	1.81	.50	.48	.68	.31
IN.	.12	.30	.32	.14	.13	.34	1.46	2.09	.56	.55	.78	.34

e Estimated

05338500 SNAKE RIVER NEAR PINE CITY, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	404	410	216	132	132	471	2050	1149	798	703	334	306
MAX	3130	2310	837	343	549	2658	4975	2726	2775	3400	2018	1201
(WY)	1969	1972	1978	1966	1966	1966	1965	1979	1967	1952	1972	1951
MIN	47.1	59.9	36.1	29.3	33.4	61.5	172	203	167	100	34.9	37.8
(WY)	1977	1977	1977	1977	1977	1965	1959	1998	1997	1961	1976	1976

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1913 - 1999
ANNUAL TOTAL	112726	183737	
ANNUAL MEAN	309	503	588 ^a
HIGHEST ANNUAL MEAN			1223
LOWEST ANNUAL MEAN			177
HIGHEST DAILY MEAN	1890	Apr 7	4450
LOWEST DAILY MEAN	37	Sep 22	48
ANNUAL SEVEN-DAY MINIMUM	42	Sep 18	72
INSTANTANEOUS PEAK FLOW			4490
INSTANTANEOUS PEAK STAGE			6.71
INSTANTANEOUS LOW FLOW			43
ANNUAL RUNOFF (AC-FT)	223600	364400	425800
ANNUAL RUNOFF (CFSM)	.32	.53	.61
ANNUAL RUNOFF (INCHES)	4.38	7.13	8.34
10 PERCENT EXCEEDS	684	1160	1450
50 PERCENT EXCEEDS	174	333	223
90 PERCENT EXCEEDS	63	114	76

a Median of annual mean discharges is 529 ft³/s.
 b Result of dam rehabilitation.

