

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.

REVISED RECORDS.--1999-2002, summary statistics revised in 2003.

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 except those for estimated days, which are fair to poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	633	1,320	299	e140	119	134	3,340	796	1,760	666	89	101
2	598	1,390	278	e137	120	135	3,890	711	1,680	680	83	77
3	586	1,350	254	e135	121	132	4,370	645	1,540	785	87	69
4	607	1,300	264	e135	121	121	4,670	591	1,390	832	90	93
5	600	1,170	254	e130	117	119	4,780	548	1,280	772	72	98
6	584	1,040	251	124	124	123	5,240	517	1,190	705	66	116
7	546	920	257	117	138	142	5,120	481	1,170	633	61	102
8	525	792	247	111	137	155	4,970	484	1,260	568	67	99
9	474	702	249	106	137	162	4,840	492	1,360	517	73	91
10	438	650	272	105	133	174	4,670	507	1,540	466	76	90
11	411	581	272	103	131	173	4,390	465	1,750	420	68	87
12	380	527	302	e103	130	169	4,100	458	1,930	383	76	111
13	368	484	235	e102	131	161	3,830	501	2,020	336	64	271
14	334	445	205	e101	153	151	3,620	513	2,210	297	58	235
15	328	419	210	e100	150	149	3,470	500	2,330	273	57	212
16	336	402	220	e100	150	140	3,320	480	2,450	244	57	207
17	298	382	209	e101	150	141	3,090	462	2,620	220	82	192
18	285	365	207	e103	143	139	2,840	488	2,760	212	90	181
19	297	355	197	e105	138	134	2,580	586	2,790	167	101	177
20	308	392	170	e118	140	132	2,310	736	2,740	160	99	164
21	299	394	171	e112	138	131	2,130	980	2,580	143	86	156
22	294	411	162	e115	134	140	2,010	1,220	2,330	130	72	147
23	346	445	152	117	131	163	1,880	1,290	2,150	124	65	134
24	340	431	145	118	131	221	1,730	1,310	2,000	131	60	132
25	356	419	135	118	130	330	1,560	1,290	1,790	124	60	155
26	355	402	129	118	126	474	1,400	1,290	1,550	124	120	193
27	373	412	124	118	129	627	1,240	1,310	1,340	111	135	188
28	450	373	124	118	129	830	1,090	1,480	1,120	104	125	220
29	621	346	123	115	---	1,110	970	1,640	907	94	115	217
30	920	307	132	116	---	1,630	871	1,740	812	93	98	213
31	1,170	---	142	123	---	2,510	---	1,780	---	98	93	---
TOTAL	14,460	18,926	6,391	3,564	3,731	11,052	94,321	26,291	54,349	10,612	2,545	4,528
MEAN	466	631	206	115	133	357	3,144	848	1,812	342	82.1	151
MAX	1,170	1,390	302	140	153	2,510	5,240	1,780	2,790	832	135	271
MIN	285	307	123	100	117	119	871	458	812	93	57	69
AC-FT	28,680	37,540	12,680	7,070	7,400	21,920	187,100	52,150	107,800	21,050	5,050	8,980
CFSM	0.49	0.66	0.22	0.12	0.14	0.37	3.28	0.89	1.89	0.36	0.09	0.16
IN.	0.56	0.73	0.25	0.14	0.14	0.43	3.66	1.02	2.11	0.41	0.10	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

MEAN	395	405	214	130	132	463	2,111	1,161	871	737	325	308
MAX	3,130	2,310	837	343	549	2,658	5,905	2,726	2,775	3,400	2,018	1,201
(WY)	(1969)	(1972)	(1978)	(1966)	(1966)	(1966)	(2001)	(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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1913 - 2005	
ANNUAL TOTAL	206,322		250,770		a601	
ANNUAL MEAN	564		687		1,223	
HIGHEST ANNUAL MEAN					177	
LOWEST ANNUAL MEAN					14,200	
HIGHEST DAILY MEAN	3,860	Jun 6	5,240	Apr 6	26	Aug 29, 1976
LOWEST DAILY MEAN	70	Aug 23	57	Aug 15,16	28	Jan 21, 1977
ANNUAL SEVEN-DAY MINIMUM	83	Jan 30	65	Aug 10	14,300	Jul 27, 1972
MAXIMUM PEAK FLOW			5,310	Apr 6	10.38	Jul 27, 1972
MAXIMUM PEAK STAGE			6.97	Apr 6	b5.5	Oct 1, 1964
INSTANTANEOUS LOW FLOW			53	Aug 16		
ANNUAL RUNOFF (AC-FT)	409,200		497,400		435,100	
ANNUAL RUNOFF (CFSM)	0.588		0.717		0.627	
ANNUAL RUNOFF (INCHES)	8.01		9.74		8.52	
10 PERCENT EXCEEDS	1,440		1,900		1,480	
50 PERCENT EXCEEDS	298		254		220	
90 PERCENT EXCEEDS	91		99		79	

- a Median of annual mean discharges is 550 ft³/s.
- b Result of dam rehabilitation.
- c Estimated.

