

## 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.

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.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448	652	240	165	90	88	432	1,650	669	4,930	309	80
2	421	619	239	163	94	89	402	1,390	612	4,380	302	80
3	397	605	220	159	108	90	409	1,170	565	4,240	286	82
4	502	572	214	158	106	91	427	947	521	3,980	266	70
5	632	552	213	159	105	89	413	919	496	3,930	255	69
6	922	543	204	156	110	86	381	957	464	3,980	243	76
7	1,280	516	203	158	111	88	352	1,060	460	4,000	223	87
8	1,520	494	192	161	111	95	349	1,170	468	3,830	210	86
9	1,680	485	183	163	109	98	325	1,420	467	3,510	197	83
10	1,740	489	182	174	109	91	300	1,680	540	3,130	191	80
11	1,700	475	184	164	109	88	279	2,150	679	2,720	173	102
12	1,620	467	187	144	107	86	263	2,560	951	2,370	168	215
13	1,500	454	186	138	103	88	254	2,870	1,300	2,090	159	224
14	1,400	443	189	132	100	90	274	3,040	1,500	1,870	152	231
15	1,310	426	189	123	99	98	259	3,080	1,560	1,680	145	230
16	1,200	411	186	117	97	115	422	2,960	1,490	1,480	135	219
17	1,070	392	182	111	95	145	865	2,720	1,340	1,320	126	203
18	970	382	201	112	92	196	1,350	2,420	1,180	1,160	124	229
19	881	379	210	108	89	242	1,870	2,240	961	981	119	256
20	798	359	217	105	90	303	2,400	2,060	822	853	122	220
21	788	356	215	102	92	355	2,940	1,910	695	739	131	209
22	765	335	212	99	94	377	3,370	1,890	606	650	107	218
23	743	349	211	95	96	403	3,740	1,890	584	586	88	196
24	724	315	188	89	97	425	3,910	1,830	807	525	98	207
25	701	289	191	89	92	435	3,850	1,720	1,900	479	99	162
26	695	270	185	85	90	450	3,590	1,560	3,190	458	107	159
27	679	263	181	84	88	473	3,200	1,400	4,270	423	93	165
28	671	266	184	85	88	480	2,730	1,220	5,070	393	93	146
29	673	285	182	85	---	465	2,310	1,010	5,440	371	88	147
30	673	266	183	86	---	449	1,950	854	5,340	341	86	146
31	664	---	194	90	---	433	---	740	---	315	82	---
TOTAL	29,767	12,709	6,147	3,859	2,771	7,101	43,616	54,487	44,947	61,714	4,977	4,677
MEAN	960	424	198	124	99.0	229	1,454	1,758	1,498	1,991	161	156
MAX	1,740	652	240	174	111	480	3,910	3,080	5,440	4,930	309	256
MIN	397	263	181	84	88	86	254	740	460	315	82	69
AC-FT	59,040	25,210	12,190	7,650	5,500	14,080	86,510	108,100	89,150	122,400	9,870	9,280
CFSM	1.00	0.44	0.21	0.13	0.10	0.24	1.52	1.83	1.56	2.08	0.17	0.16
IN.	1.16	0.49	0.24	0.15	0.11	0.28	1.69	2.12	1.75	2.40	0.19	0.18

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2003, BY WATER YEAR (WY)

MEAN	398	404	216	131	133	467	2,110	1,174	825	756	334	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1913 - 2003	
ANNUAL TOTAL	339,856		276,772		a601	
ANNUAL MEAN	931		758		1,223	
HIGHEST ANNUAL MEAN					177	
LOWEST ANNUAL MEAN					1959	
HIGHEST DAILY MEAN	6,400	Apr 16	5,440	Jun 29	14,200	Jul 27, 1972
LOWEST DAILY MEAN	96	Feb 7	69	Sep 5	26	Aug 29, 1976
ANNUAL SEVEN-DAY MINIMUM	98	Feb 2	77	Aug 31	28	Jan 21, 1977
MAXIMUM PEAK FLOW			5,500	Jun 29	14,300	Jul 27, 1972
MAXIMUM PEAK STAGE			7.06	Jun 29	10.38	Jul 27, 1972
INSTANTANEOUS LOW FLOW			69	Sep 4	b5.5	Oct 1, 1964
ANNUAL RUNOFF (AC-FT)	674,100		549,000		435,400	
ANNUAL RUNOFF (CFSM)	0.97		0.79		0.63	
ANNUAL RUNOFF (INCHES)	13.20		10.75		8.52	
10 PERCENT EXCEEDS	2,110		2,110		1,470	
50 PERCENT EXCEEDS	495		309		221	
90 PERCENT EXCEEDS	128		90		78	

a Median of annual mean discharges is 550 ft<sup>3</sup>/s.  
 b Result of dam rehabilitation.

