

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	201	196	134	e82	e110	1,920	1,150	2,880	274	138	145
2	128	213	182	135	e83	e118	1,920	994	3,300	249	168	145
3	136	207	177	154	e84	e122	1,860	866	3,590	232	167	138
4	131	235	178	131	e86	e129	1,760	770	3,770	224	160	129
5	126	257	180	128	e83	e130	1,610	642	3,840	194	156	139
6	135	232	174	125	e87	e133	1,470	577	3,860	185	148	199
7	140	214	174	113	e87	e138	1,330	487	3,830	188	145	196
8	143	200	177	101	e86	e141	1,200	459	3,840	172	164	298
9	140	201	174	91	e85	e141	1,060	430	3,710	170	219	444
10	135	210	173	88	e85	e142	941	428	3,480	169	194	531
11	162	222	161	88	e86	e145	832	358	3,190	224	172	558
12	181	234	142	91	e85	e151	754	362	2,900	245	157	525
13	174	213	141	88	e84	e151	680	343	2,570	258	145	472
14	172	206	141	93	e83	e153	590	316	2,290	283	137	466
15	169	212	140	92	e83	e153	526	280	2,040	308	127	471
16	161	218	154	92	e84	e160	507	273	1,860	305	126	458
17	154	209	143	94	e86	163	456	418	1,650	283	125	440
18	160	237	142	e94	e92	162	455	553	1,470	262	125	460
19	154	228	139	e92	e99	161	563	755	1,290	236	109	468
20	171	225	132	e88	e97	207	649	962	1,120	218	91	452
21	150	216	134	e86	e97	258	881	1,030	935	205	83	498
22	148	206	134	e85	e90	321	1,050	1,070	776	172	86	534
23	142	233	134	e83	e89	386	1,300	1,060	654	150	70	608
24	145	187	130	e84	e91	428	1,440	1,080	574	130	77	776
25	150	186	128	e85	e92	503	1,570	1,170	498	122	93	863
26	140	197	124	e89	e96	626	1,590	1,230	444	113	143	904
27	134	205	127	e91	e97	794	1,520	1,450	416	101	144	896
28	167	207	134	e91	e101	1,140	1,470	1,590	407	106	134	826
29	161	201	139	e86	e102	1,450	1,400	1,770	363	139	134	740
30	177	205	140	e83	---	1,660	1,280	1,980	325	124	152	651
31	202	---	145	e82	---	1,840	---	2,440	---	134	147	---
TOTAL	4,721	6,417	4,689	3,057	2,582	12,316	34,584	27,293	61,872	6,175	4,236	14,430
MEAN	152	214	151	98.6	89.0	397	1,153	880	2,062	199	137	481
MAX	202	257	196	154	102	1,840	1,920	2,440	3,860	308	219	904
MIN	126	186	124	82	82	110	455	273	325	101	70	129
AC-FT	9,360	12,730	9,300	6,060	5,120	24,430	68,600	54,140	122,700	12,250	8,400	28,620
CFSM	0.16	0.22	0.16	0.10	0.09	0.41	1.20	0.92	2.15	0.21	0.14	0.50
IN.	0.18	0.25	0.18	0.12	0.10	0.48	1.34	1.06	2.40	0.24	0.16	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)

MEAN	393	400	214	130	132	465	2,089	1,168	851	745	330	312
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	243,976		182,372		a599	
ANNUAL MEAN	668		498		1,223	
HIGHEST ANNUAL MEAN					1972	
LOWEST ANNUAL MEAN					1959	
HIGHEST DAILY MEAN	5,440	Jun 29	3,860	Jun 6	14,200	Jul 27, 1972
LOWEST DAILY MEAN	69	Sep 5	70	Aug 23	26	Aug 29, 1976
ANNUAL SEVEN-DAY MINIMUM	77	Aug 31	83	Jan 30	28	Jan 21, 1977
MAXIMUM PEAK FLOW			3,940	Jun 8	14,300	Jul 27, 1972
MAXIMUM PEAK STAGE			6.26	Jun 8	10.38	Jul 27, 1972
INSTANTANEOUS LOW FLOW			59	Aug 23	b55.5	Oct 1, 1964
ANNUAL RUNOFF (AC-FT)	483,900		361,700		433,800	
ANNUAL RUNOFF (CFSM)	0.698		0.520		0.625	
ANNUAL RUNOFF (INCHES)	9.47		7.08		8.49	
10 PERCENT EXCEEDS	2,110		1,440		1,470	
50 PERCENT EXCEEDS	200		179		220	
90 PERCENT EXCEEDS	90		91		78	

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

