

**MINNESOTA RIVER BASIN**

**05327000 HIGH ISLAND CREEK NEAR HENDERSON, MN**

LOCATION.--Lat 44° 34'19", long 93° 55'18", in NE¼NW¼ sec. 26, T.113 N., R.26 W., Sibley County, Hydrologic Unit 07020012, on left bank 20 ft downstream from bridge on County Road 6, 1.6 mi upstream from mouth, and 3.1 mi north of Henderson.

DRAINAGE AREA.--237 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1973 to current year. May 1970 to September 1973, operated as a low-flow station only.

REVISED RECORDS.--WDR-MN-80-2: 1974-75, 1977-79.

GAGE.--Water-stage recorder. Datum of gage is 728.56 ft above mean sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair to poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and maximum (\*):

**DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997**

**DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	2.6	4.9	e29	e10	e9.8	e13	784	150	51
667	603	171							
2	2.4	4.2	e28	e10	10	e14	834	147	47
602	767	155							
3	2.1	3.9	e24	11	e9.8	15	1100	141	46
606	822	138							
4	2.3	4.0	e22	e11	10	15	1350	130	44
578	699	124							
5	2.3	7.7	23	e11	9.8	e15	1300	136	41
559	561	114							
6	2.4	6.9	24	e10	9.9	e15	1130	128	39
545	492	105							
7	2.5	6.3	e21	e10	10	e15	1000	129	38
526	391	96							
8	2.2	5.6	21	e9.8	e9.8	e15	e960	127	37
478	296	91							
9	2.2	5.3	20	e9.8	e9.8	16	e940	119	33
388	238	85							
10	2.2	4.7	e19	e9.6	9.8	20	e900	114	31

292	198	81							
11	2.5	4.3	e18	e9.4	e9.8	26	e820	106	29
223	170	79							
12	2.8	3.8	e17	e9.2	e9.8	31	e680	95	26
176	151	74							
13	2.8	4.2	e16	e9.0	e9.8	31	e600	94	25
291	138	71							
14	3.0	3.9	e16	e9.0	e10	e32	e540	94	23
705	134	66							
15	3.7	5.6	e16	e9.0	e10	e31	e500	87	22
408	138	61							
16	3.9	32	e15	e9.2	e10	e30	495	86	21
273	e130	71							
17	25	77	e15	e9.4	10	27	434	86	20
214	e122	77							
18	11	61	e15	e9.6	e10	27	389	81	18
175	e114	79							
19	4.7	43	e14	e9.8	e11	33	352	76	20
148	250	e80							
20	3.5	33	e13	e10	11	50	324	74	18
134	926	e78							
21	3.0	28	e13	e11	e11	140	298	67	15
145	708	e75							
22	2.8	e30	e12	e11	e11	225	272	61	13
1350	565	76							
23	5.8	e35	e12	e10	e12	223	252	55	11
935	536	83							
24	4.7	e47	e12	e9.6	e12	236	231	57	11
708	506	e82							
25	4.0	50	e11	e9.4	e12	214	211	52	9.6
2070	476	e80							
26	4.0	35	e10	e9.2	12	347	194	50	7.4
1270	433	e77							
27	3.6	31	e9.8	e9.0	12	945	177	48	6.1
852	355	e70							
28	3.4	27	e9.8	e9.2	e12	1580	164	46	39
686	276	68							
29	3.8	26	e9.8	e9.2	---	1070	158	52	1290
628	216	e70							
30	5.6	29	e9.8	e9.4	---	989	154	54	965
597	191	e72							
31	5.4	---	e9.8	e9.6	---	849	---	56	---
583	184	---							
TOTAL	132.2	659.3	505.0	302.4	294.1	7289	17543	2798	2996.1
17812	11786	2649							
MEAN	4.26	22.0	16.3	9.75	10.5	235	585	90.3	99.9
575	380	88.3							
MAX	25	77	29	11	12	1580	1350	150	1290
2070	926	171							
MIN	2.1	3.8	9.8	9.0	9.8	13	154	46	6.1

134	114	61							
AC-FT	262	1310	1000	600	583	14460	34800	5550	5940
35330	23380	5250							
CFSM	.02	.09	.07	.04	.04	.99	2.47	.38	.42
2.42	1.60	.37							
IN.	.02	.10	.08	.05	.05	1.14	2.75	.44	.47
2.80	1.85	.42							

o e Estimated

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1997, BY WATER YEAR (WY)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
MEAN	78.4	65.7	36.6	16.0	21.2	171	257	156	171
138	86.4	109							
MAX	298	219	111	72.5	121	547	593	506	991
989	380	592							
(WY)	1986	1993	1983	1992	1984	1992	1983	1993	1993
1993	1997	1991							
MIN	1.51	2.11	1.37	.98	1.28	6.27	6.69	3.32	1.58
.80	1.16	1.18							
(WY)	1990	1990	1976	1977	1989	1975	1990	1976	1976
1976	1976	1974							
<i>SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1974 - 1997</i>									
ANNUAL TOTAL			28909.8			64766.1			
ANNUAL MEAN			79.0			177			109
HIGHEST ANNUAL MEAN									
346		1993							
LOWEST ANNUAL MEAN									
9.23		1976							
HIGHEST DAILY MEAN			680	Mar 25		2070	Jul 25		2190 Jun
23 1993									
LOWEST DAILY MEAN			1.9	Sep 2		2.1	Oct 3		.46
Oct 3 1976									
ANNUAL SEVEN-DAY MINIMUM			2.0	Aug 30		2.3	Oct 3		.59 Jul
10 1976									
INSTANTANEOUS PEAK FLOW						2830	Jul 25		2830 Jul
25 1997									
INSTANTANEOUS PEAK STAGE						9.31	Jul 25		9.72 Jun
17 1993									
INSTANTANEOUS LOW FLOW						2.0	Oct 2		.20a
Jan 4 1981									
ANNUAL RUNOFF (AC-FT)			57340			128500			79020
ANNUAL RUNOFF (CFSM)			.33			.75			.46
ANNUAL RUNOFF (INCHES)			4.54			10.17			6.25
10 PERCENT EXCEEDS			246			602			309
50 PERCENT EXCEEDS			18			35			31
90 PERCENT EXCEEDS			2.7			5.4			1.9

o a Result of freezeup.

