

## MINNESOTA RIVER BASIN

### 05327000 HIGH ISLAND CREEK NEAR HENDERSON, MN

LOCATION.--Lat 4434'19", long 9355'18", in NE 1 / 4 NW 1 / 4 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.--238 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, WRD MN-98: 1993.

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			Discharge				
Date	Time	Gage height (ft)	Date	Time	Gage height (ft)		
		(ft <sup>3</sup> /s)			(ft <sup>3</sup> /s)		
Feb. 27	2200	518	5.56	June 19	0300	456	5.36
Mar. 29	2200	*2410	*8.52	June 27	2000	2260	8.37

REVISIONS.--Revised daily discharges for the 1993 water year. These figures supersede those published in the report MN-93-2.

Apr. 3	e635	May 13	e810	June 19	e1450	June 29	e470	July 9	e890	July 19	e860
4	e570	14	e750	20	e1350	30	e450	10	e820	20	e820
5	e530	15	e670	21	e1230	July 1	e455	11	e1000	21	e780
6	e480	16	e600	22	e1050	2	e660	12	e960	22	e730
7	e440	17	e530	23	e830	3	e900	13	e900		
8	e455	18	e520	24	e730	4	e1250	14	e830		
9	e460	19	e485	25	e650	5	e1180	15	e790		
10	e460			26	e600	6	e1090	16	e740		
11	e485			27	e540	7	e1020	17	e800		
12	e485			28	e505	8	e950	18	e880		

### DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

#### DAILY MEAN VALUES



TOTAL	1750	1046	682	404	3023	8378	12181	3055	8025	5408	896	210.7
MEAN	56.5	34.9	22.0	13.0	108	270	406	98.5	268	174	28.9	7.02
MAX	78	51	29	17	503	1200	2000	135	1790	627	51	15
MIN	42	23	16	11	12	69	85	71	56	45	14	5.3
AC-FT	3470	2070	1350	801	6000	16620	24160	6060	15920	10730	1780	418
CFSM	.24	.15	.09	.05	.46	1.14	1.71	.42	1.13	.74	.12	.03
IN.	.27	.16	.11	.06	.47	1.32	1.91	.48	1.26	.85	.14	.03

e Estimated

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1998, BY WATER YEAR (WY)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	77.6	64.5	36.0	15.9	24.6	175	260	152	161	132	84.1	105
MAX	298	219	111	72.5	121	547	593	478	646	783	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

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1974 - 1998		
ANNUAL TOTAL	66947.6		45058.7				
ANNUAL MEAN	183		123			108	
HIGHEST ANNUAL MEAN						293	1993
LOWEST ANNUAL MEAN						9.23	1976
HIGHEST DAILY MEAN	2070		Jul 25	2000	Apr 1	2070	Jul 25 1997
LOWEST DAILY MEAN	6.1		Jun 27	5.3	Sep 18	.46	Oct 3 1976
ANNUAL SEVEN-DAY MINIMUM	9.2		Jan 11	5.6	Sep 22	.59	Jul 10 1976
INSTANTANEOUS PEAK FLOW				2410	Mar 29	2830	Jul 25 1997
INSTANTANEOUS PEAK STAGE				8.52	Mar 29	9.72	Jun 17 1993

INSTANTANEOUS LOW FLOW			5.2	Sep 18	.20a	Jan 4	1981
ANNUAL RUNOFF (AC-FT)	132800		89370		77880		
ANNUAL RUNOFF (CFSM)	.77		.52		.45		
ANNUAL RUNOFF (INCHES)	10.51		7.07		6.16		
10 PERCENT EXCEEDS	602		287		309		
50 PERCENT EXCEEDS	52		51		32		
90 PERCENT EXCEEDS	10		11		1.9		

a Result of freezeup.

