

MINNESOTA RIVER BASIN--Continued

05327000 HIGH ISLAND CREEK NEAR HENDERSON, MN

LOCATION.--Lat 44°34'19", long 93°55'18", in NE¹/₄NW¹/₄ 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 mi².

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 sea level (NGVD of 1929).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.8	3.0	e2.0	e2.6	e2.8	60	e800	201	69	7.3	2.7
2	1.5	3.9	2.6	e1.9	e2.4	3.1	109	e750	183	63	6.9	2.4
3	1.7	3.3	2.3	e2.4	e2.6	e3.1	186	e700	163	58	6.3	2.3
4	1.6	3.1	2.5	e2.6	e2.6	e3.1	264	e650	146	52	5.9	2.1
5	1.6	3.1	3.0	2.8	2.8	e3.1	539	e620	146	46	5.6	2.0
6	1.7	7.7	2.0	2.6	e2.8	e3.1	673	e600	141	41	5.0	2.0
7	1.8	12	2.0	2.5	2.9	3.1	e1500	e560	136	37	4.6	8.4
8	1.9	6.8	2.2	e2.4	2.9	3.2	e1000	e530	130	33	4.1	6.0
9	2.3	4.7	2.1	e2.3	e2.8	e3.3	e815	e500	127	28	3.9	3.7
10	2.2	3.7	e2.2	2.7	e2.7	3.4	e785	e470	123	25	3.4	2.7
11	1.9	3.3	e2.1	2.7	e2.6	e3.7	e1200	e440	116	22	3.4	2.4
12	2.3	4.0	e2.1	2.7	e2.7	4.0	e2400	e420	113	20	3.7	2.2
13	2.0	4.7	e2.2	2.8	e2.8	4.0	e1400	e400	185	19	3.1	2.0
14	1.8	4.3	e2.3	3.1	e2.8	4.5	e1300	374	352	17	2.9	2.0
15	1.9	4.1	e2.4	2.9	e2.7	4.9	e1500	321	348	15	3.1	2.3
16	2.0	4.3	e2.6	2.9	e2.6	4.9	e1400	273	377	13	2.8	2.0
17	2.0	3.9	e2.3	e2.9	e2.6	5.0	e1300	241	439	13	2.5	2.1
18	2.0	3.4	e2.3	e2.8	e2.5	5.2	e1200	209	503	12	3.3	2.2
19	2.2	3.3	e2.2	e2.7	e2.6	5.2	e1100	183	549	11	3.5	2.1
20	2.0	3.1	e2.2	e2.4	e2.6	5.8	e1100	182	543	11	3.3	2.2
21	1.9	2.7	e2.2	e2.5	e2.7	6.7	e1500	268	495	10	3.0	2.3
22	1.9	2.6	e2.1	e2.8	e2.6	7.2	e1300	238	408	11	2.6	2.9
23	2.5	2.6	e2.0	e2.8	e2.7	7.3	e2000	223	316	10	2.3	3.2
24	2.3	2.4	e1.9	e2.7	e2.8	e7.0	e1300	225	240	9.5	2.2	3.3
25	2.4	2.4	e1.7	e2.6	e2.9	e6.8	e1300	234	175	9.3	2.1	2.5
26	2.3	2.5	e1.9	e2.7	e2.7	e6.0	e1500	356	135	8.5	2.0	2.0
27	2.0	2.7	e2.0	e2.7	e2.6	e5.9	e1300	347	115	8.0	2.0	1.8
28	2.0	2.7	e2.1	2.8	e2.5	5.6	e1100	281	98	9.1	2.0	1.7
29	2.0	2.8	e2.1	e2.8	---	6.2	e1000	251	87	8.8	2.2	1.8
30	2.7	2.9	e2.1	e2.8	---	8.9	e1000	233	78	8.2	2.4	1.9
31	2.8	---	e2.0	e2.6	---	19	---	214	---	7.1	2.3	---
TOTAL	62.7	116.8	68.7	81.9	75.1	165.1	33131	12093	7168	704.5	109.7	79.2
MEAN	2.02	3.89	2.22	2.64	2.68	5.33	1104	390	239	22.7	3.54	2.64
MAX	2.8	12	3.0	3.1	2.9	19	2400	800	549	69	7.3	8.4
MIN	1.5	2.4	1.7	1.9	2.4	2.8	60	182	78	7.1	2.0	1.7
AC-FT	124	232	136	162	149	327	65720	23990	14220	1400	218	157
CFSM	.01	.02	.01	.01	.01	.02	4.66	1.65	1.01	.10	.01	.01
IN.	.01	.02	.01	.01	.01	.03	5.20	1.90	1.13	.11	.02	.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	70.1	59.8	33.3	14.6	23.0	160	283	163	161	124	76.0	94.2
MAX	298	219	111	72.5	121	547	1104	478	646	783	380	592
(WY)	1986	1993	1983	1992	1984	1992	2001	1993	1993	1993	1997	1991
MIN	1.51	2.11	1.37	.98	1.28	5.33	6.69	3.32	1.58	.80	1.16	1.18
(WY)	1990	1990	1976	1977	1989	2001	1990	1976	1976	1976	1976	1974

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1974 - 2001
ANNUAL TOTAL	5800.9	53855.7	
ANNUAL MEAN	15.8	148	105
HIGHEST ANNUAL MEAN			293
LOWEST ANNUAL MEAN			9.23
HIGHEST DAILY MEAN	153	2400	2400
LOWEST DAILY MEAN	1.5	1.5	.46
ANNUAL SEVEN-DAY MINIMUM	1.6	1.6	.59
MAXIMUM PEAK FLOW		2400a	2830
MAXIMUM PEAK STAGE		9.88b	9.88b
INSTANTANEOUS LOW FLOW		1.5c	.20d
ANNUAL RUNOFF (AC-FT)	11510	106800	76250
ANNUAL RUNOFF (CFM)	.067	.62	.44
ANNUAL RUNOFF (INCHES)	.91	8.45	6.03
10 PERCENT EXCEEDS	55	514	300
50 PERCENT EXCEEDS	4.7	3.2	28
90 PERCENT EXCEEDS	1.9	2.0	2.0

- a Estimated daily-mean discharge, backwater from Minnesota River.
- b Backwater from Minnesota River.
- c Recorded, may have been lower during period of no gage-height record in December.
- d Result of freezeup.
- e Estimated.

