

## 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.--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 sea level (NGVD of 1929).

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 370 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 30	0415	1,200	7.60	Jun 11	2300	*2,250	*9.50
Jun 6	1315	816	6.38	Jul 11	2230	854	6.51

Minimum discharge, 1.1 ft<sup>3</sup>/s, Oct. 3, (estimated daily-mean).

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	1.2	e2.4	2.4	2.4	e1.4	e37	36	6.6	562	280	36	6.6
2	1.2	e2.6	2.3	2.4	e1.4	e36	26	9.2	564	260	32	6.2
3	e1.1	e3.3	2.3	3.3	e1.4	e19	19	6.9	603	248	29	5.8
4	e1.2	e3.4	2.4	2.8	e1.4	e18	15	5.2	656	265	27	5.6
5	e1.3	e2.6	2.4	e2.5	e1.8	e9.1	13	4.4	702	241	24	6.8
6	e1.3	e2.4	2.4	e2.3	e1.8	e17	11	3.7	795	233	22	10
7	e1.6	e2.2	2.5	e2.3	e2.0	e32	8.7	3.4	707	313	23	7.1
8	e1.5	e1.9	2.5	e2.2	e2.1	e38	6.2	2.7	631	305	21	6.1
9	e1.6	e1.9	2.7	e2.3	e2.2	e82	6.2	3.6	1,180	261	19	5.7
10	e1.6	e2.0	2.5	e2.4	e2.2	e110	6.5	129	1,090	222	18	5.8
11	e2.0	e2.2	2.5	e2.5	2.3	e56	7.8	67	1,190	586	18	5.6
12	e2.0	e2.4	e2.4	e2.6	e2.3	e51	6.8	22	1,830	698	17	5.4
13	e2.3	e2.4	e2.4	2.7	e2.4	e42	4.6	13	1,280	529	16	5.0
14	e2.5	2.6	2.4	2.7	e2.4	e25	3.5	8.5	1,070	400	14	8.2
15	e1.4	2.6	2.5	2.8	e2.4	e16	3.1	5.7	981	314	13	23
16	e1.5	2.5	2.5	2.7	e2.3	e14	2.9	4.3	980	261	17	18
17	e1.2	2.6	2.6	e2.5	e2.3	e18	2.5	80	1,000	226	15	15
18	e1.4	2.6	2.4	e2.4	e2.4	e18	2.5	128	984	202	14	14
19	e1.7	2.5	2.4	e2.3	2.5	e23	7.7	96	914	176	13	14
20	e1.6	2.4	2.4	e2.1	2.7	e22	7.0	81	836	155	12	13
21	e1.9	2.4	2.5	e2.0	2.6	e24	14	77	751	151	10	24
22	e2.0	2.5	2.5	e1.9	2.7	e22	23	76	653	142	9.6	76
23	e2.3	2.7	2.5	e1.8	2.9	e21	19	249	537	144	9.2	117
24	e2.4	2.7	2.6	e1.7	2.9	e22	16	393	423	128	8.6	118
25	e2.4	2.5	2.6	e1.6	3.0	e22	18	314	334	110	8.5	119
26	e2.5	2.4	2.5	e1.5	3.0	24	16	323	277	93	8.4	114
27	e2.6	2.6	3.1	e1.4	3.3	29	13	445	242	77	8.6	104
28	e2.6	2.5	3.0	e1.4	5.0	52	10	398	214	64	7.9	88
29	e2.4	2.4	2.9	e1.4	7.5	47	9.0	430	186	54	8.0	73
30	e2.5	2.5	2.9	e1.4	---	47	7.3	957	202	47	7.6	61
31	e2.4	---	4.3	e1.4	---	45	---	716	---	41	7.0	---
TOTAL	57.2	74.7	80.3	67.7	74.6	1,038.1	341.3	5,058.2	22,374	7,226	493.4	1,080.9
MEAN	1.85	2.49	2.59	2.18	2.57	33.5	11.4	163	746	233	15.9	36.0
MAX	2.6	3.4	4.3	3.3	7.5	110	36	957	1,830	698	36	119
MIN	1.1	1.9	2.3	1.4	1.4	9.1	2.5	2.7	186	41	7.0	5.0
AC-FT	113	148	159	134	148	2,060	677	10,030	44,380	14,330	979	2,140
CFSM	0.01	0.01	0.01	0.01	0.01	0.14	0.05	0.69	3.15	0.98	0.07	0.15
IN.	0.01	0.01	0.01	0.01	0.01	0.16	0.05	0.79	3.51	1.13	0.08	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

	66.6	55.6	30.9	13.7	21.2	148	259	162	186	126	76.5	88.4
MEAN	66.6	55.6	30.9	13.7	21.2	148	259	162	186	126	76.5	88.4
MAX	298	219	111	72.5	121	547	1,104	478	746	783	380	592
(WY)	(1986)	(1993)	(1983)	(1992)	(1984)	(1992)	(2001)	(1993)	(2004)	(1993)	(1997)	(1991)
MIN	1.51	2.11	1.37	0.98	1.28	5.33	6.69	3.32	1.58	0.80	1.16	1.18
(WY)	(1990)	(1990)	(1976)	(1977)	(1989)	(2001)	(1990)	(1976)	(1976)	(1976)	(1976)	(1974)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL TOTAL	17,534.68		37,966.4		103	
ANNUAL MEAN	48.0		104		293	
HIGHEST ANNUAL MEAN					9.23	
LOWEST ANNUAL MEAN					2,400	
HIGHEST DAILY MEAN	564	May 20	1,830	Jun 12	a,2,830	Apr 12, 2001
LOWEST DAILY MEAN	0.95	Sep 8	1.1	Oct 3	0.46	Oct 3, 1976
ANNUAL SEVEN-DAY MINIMUM	1.0	Sep 4	1.3	Oct 1	0.59	Jul 10, 1976
MAXIMUM PEAK FLOW			2,250	Jun 11	Jul 25, 1997	
MAXIMUM PEAK STAGE			9.50	Jun 11	9.88	Apr 23, 2001
INSTANTANEOUS LOW FLOW			b1.1	Oct 3	c0.20	Jan 4, 1981
ANNUAL RUNOFF (AC-FT)	34,780		75,310		74,530	
ANNUAL RUNOFF (CFSM)	0.203		0.438		0.434	
ANNUAL RUNOFF (INCHES)	2.75		5.96		5.90	
10 PERCENT EXCEEDS	141		317		293	
50 PERCENT EXCEEDS	6.8		7.0		27	
90 PERCENT EXCEEDS	1.4		2.0		2.0	

- a Backwater from Minnesota River.
- b Estimated daily-mean discharge.
- c Result of freezeup.
- e Estimated.

