

## 05327000 HIGH ISLAND CREEK NEAR HENDERSON, MN

LOCATION.--Lat 44°34'19", long 93°55'18", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  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 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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	60	30	11	4.8	e7.0	42	79	159	159	7.9	1.4
2	31	59	31	e9.9	6.5	e7.2	41	73	141	124	7.3	1.3
3	31	56	e26	e9.3	6.3	e7.2	39	67	124	96	6.5	1.1
4	55	52	e23	9.6	e5.2	e6.6	38	63	114	97	6.0	1.2
5	80	52	e23	10	e4.7	e6.9	34	65	108	97	5.6	1.2
6	147	54	e22	11	e4.4	e6.3	34	64	114	98	5.4	1.0
7	157	53	25	11	e4.4	e6.3	33	65	123	88	5.0	0.97
8	141	53	24	12	e4.5	e6.3	29	62	143	79	4.6	0.95
9	127	52	e21	13	e4.4	e6.3	28	77	145	71	4.5	0.96
10	141	51	20	e12	e4.3	e6.4	26	84	158	65	4.4	1.0
11	149	49	19	e11	e4.3	e6.4	25	191	160	58	4.2	2.4
12	144	46	19	e9.7	e4.3	e6.7	26	247	152	53	3.9	4.7
13	155	45	21	e8.8	e4.3	6.8	29	240	138	48	3.6	4.2
14	149	44	20	e8.4	e4.4	68	26	272	122	45	3.2	2.3
15	133	43	18	e8.5	e4.3	142	24	291	110	48	2.2	1.8
16	120	41	17	e8.5	e4.5	98	40	285	100	44	2.0	1.6
17	112	41	17	e8.6	e5.2	80	88	299	92	41	1.9	1.5
18	104	40	20	e9.4	e5.0	95	94	327	85	38	1.8	1.5
19	99	39	20	e9.4	e5.9	97	109	437	78	35	2.1	1.5
20	93	37	18	e9.5	7.3	101	134	564	72	33	2.3	1.3
21	89	36	17	e9.1	9.6	100	154	495	66	30	1.6	1.4
22	83	35	18	e8.5	15	88	163	464	64	29	1.4	1.4
23	81	35	e16	e8.2	29	84	164	454	63	29	1.3	1.2
24	84	32	e15	e8.5	30	81	150	442	60	27	1.4	1.2
25	79	26	e12	e8.5	14	76	135	419	66	24	1.6	1.1
26	72	e24	e12	e7.9	13	68	123	379	79	20	1.4	1.2
27	67	e24	e12	e7.2	e7.2	66	111	332	113	14	1.3	1.1
28	69	e28	14	6.3	e7.0	71	100	288	162	12	1.3	1.2
29	67	30	12	5.1	---	64	93	249	185	11	1.3	1.2
30	66	32	13	4.2	---	54	85	219	187	9.8	1.3	1.3
31	64	---	e12	4.5	---	47	---	183	---	8.7	1.7	---
TOTAL	3,022	1,269	587	278.6	223.8	1,566.4	2,217	7,776	3,483	1,631.5	100.0	46.18
MEAN	97.5	42.3	18.9	8.99	7.99	50.5	73.9	251	116	52.6	3.23	1.54
MAX	157	60	31	13	30	142	164	564	187	159	7.9	4.7
MIN	31	24	12	4.2	4.3	6.3	24	62	60	8.7	1.3	0.95
AC-FT	5,990	2,520	1,160	553	444	3,110	4,400	15,420	6,910	3,240	198	92
CFSM	0.41	0.18	0.08	0.04	0.03	0.21	0.31	1.06	0.49	0.22	0.01	0.01
IN.	0.47	0.20	0.09	0.04	0.04	0.25	0.35	1.22	0.55	0.26	0.02	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2003, BY WATER YEAR (WY)

MEAN	68.8	57.3	31.8	14.1	21.9	152	267	162	167	122	78.5	90.1
MAX	298	219	111	72.5	121	547	1,104	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	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1974 - 2003	
ANNUAL TOTAL	32,801.5		22,200.48			
ANNUAL MEAN	89.9		60.8		103	
HIGHEST ANNUAL MEAN					293	1993
LOWEST ANNUAL MEAN					9.23	1976
HIGHEST DAILY MEAN	1,240	Jun 25	564	May 20	2,400	Apr 12, 2001
LOWEST DAILY MEAN	2.6	Jan 25	0.95	Sep 8	0.46	Oct 3, 1976
ANNUAL SEVEN-DAY MINIMUM	2.8	Jan 21	1.0	Sep 4	0.59	Jul 10, 1976
MAXIMUM PEAK FLOW			599	May 20	a2,830	Jul 25, 1997
MAXIMUM PEAK STAGE			6.28	May 20	9.88	Apr 23, 2001
INSTANTANEOUS LOW FLOW			0.79	Sep 7, 27	b0.20	Jan 4, 1981
ANNUAL RUNOFF (AC-FT)	65,060		44,030		74,510	
ANNUAL RUNOFF (CFSM)	0.38		0.26		0.43	
ANNUAL RUNOFF (INCHES)	5.15		3.48		5.90	
10 PERCENT EXCEEDS	205		149		292	
50 PERCENT EXCEEDS	38		29		28	
90 PERCENT EXCEEDS	3.8		1.8		2.0	

- a Backwater from Minnesota River.
- b Result of freezeup.
- c Estimated.

