

## 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 370 ft<sup>3</sup>/s and maximum (\*):

	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 18	1315	*628	*5.70	1445	477	5.10
Jun 17	0415	609	5.63			

Minimum discharge, 1.5 ft<sup>3</sup>/s, Sept. 3, gage height, 2.13 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	39	32	e7.8	2.9	e12	e110	107	164	340	16	2.2
2	47	42	32	e7.9	3.1	e12	e91	98	147	249	15	1.9
3	44	41	28	e7.3	3.3	e12	77	89	133	220	13	1.8
4	41	41	26	e6.3	3.6	12	62	82	134	191	12	3.8
5	38	40	23	e5.8	e5.0	13	52	76	139	162	11	6.5
6	34	39	25	5.2	e6.8	e23	46	74	157	140	10	5.1
7	32	37	25	4.5	e6.9	e27	48	77	189	118	8.9	7.1
8	32	35	24	3.6	e6.9	e29	47	83	342	97	8.3	11
9	31	34	24	3.4	e6.9	e29	42	98	388	83	8.0	11
10	29	32	24	e3.2	e7.3	e29	42	131	357	72	7.4	12
11	28	31	24	3.1	e7.8	e29	80	131	390	64	7.9	11
12	26	30	e23	3.3	8.1	e29	418	140	434	57	7.8	9.9
13	24	28	e16	e3.2	e9.4	e29	421	291	473	51	6.2	45
14	22	27	e21	e3.0	e11	e28	385	275	525	46	5.3	80
15	22	27	e22	e2.6	e14	e27	402	230	559	41.0	4.6	147
16	46	27	e21	e2.3	e15	e26	445	214	585	36	4.2	195
17	39	26	e20	e2.0	e15	e24	503	205	602	33	4.2	215
18	30	26	e19	e1.9	e15	20	588	247	599	29	5.7	212
19	27	28	e17	e2.0	e15	e20	531	328	588	26	6.0	192
20	24	29	e16	e2.0	e15	e19	450	285	569	29	5.2	155
21	22	31	e14	e2.1	e14	e19	391	286	514	26	3.7	121
22	20	33	e11	e2.2	e14	e21	332	302	421	24	3.1	90
23	18	34	e8.9	e2.2	e14	e25	283	297	347	22	2.6	70
24	17	48	e7.5	e2.3	e14	e30	243	281	340	20	2.4	60
25	17	40	e7.1	e2.4	e13	e36	213	266	335	22	2.1	84
26	21	35	e6.9	e2.4	e13	e46	190	251	289	28	5.4	86
27	23	35	e6.7	e2.5	e13	e56	172	235	257	24	9.6	104
28	25	30	e6.7	2.5	e13	e70	155	224	294	22	4.7	125
29	29	29	e6.7	2.7	---	e91	138	214	268	21	3.5	132
30	30	32	e7.1	2.8	---	e109	121	199	425	19	2.7	134
31	33	---	e7.4	2.8	---	e114	---	181	---	17	2.3	---
TOTAL	925	1,006	552.0	107.3	286.0	1,066	7,078	5,997	10,964	2,329.0	208.8	2,330.3
MEAN	29.8	33.5	17.8	3.46	10.2	34.4	236	193	365	75.1	6.74	77.7
MAX	54	48	32	7.9	15	114	588	328	602	340	16	215
MIN	17	26	6.7	1.9	2.9	12	42	74	133	17	2.1	1.8
AC-FT	1,830	2,000	1,090	213	567	2,110	14,040	11,900	21,750	4,620	414	4,620
CFSM	0.13	0.14	0.08	0.01	0.04	0.15	1.00	0.82	1.54	0.32	0.03	0.33
IN.	0.15	0.16	0.09	0.02	0.04	0.17	1.11	0.94	1.72	0.37	0.03	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

	65.5	54.9	30.5	13.4	20.9	144	258	163	192	124	74.3	88.0
MEAN	65.5	54.9	30.5	13.4	20.9	144	258	163	192	124	74.3	88.0
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	40,237.2		32,849.4		102	
ANNUAL MEAN	110		90.0		293	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1976	
HIGHEST DAILY MEAN	1,830	Jun 12	602	Jun 17	2,400	Apr 12, 2001
LOWEST DAILY MEAN	1.4	Jan 27	1.8	Sep 3	0.46	Oct 3, 1976
ANNUAL SEVEN-DAY MINIMUM	1.4	Jan 27	2.1	Jan 17	0.59	Jul 10, 1976
MAXIMUM PEAK FLOW			628	Apr 18	a2,830	Jul 25, 1997
MAXIMUM PEAK STAGE			5.70	Apr 18	b9.88	Apr 23, 2001
INSTANTANEOUS LOW FLOW			1.5	Sep 3	c0.20	Jan 4, 1981
ANNUAL RUNOFF (AC-FT)	79,810		65,160		74,240	
ANNUAL RUNOFF (CFSM)	0.464		0.380		0.432	
ANNUAL RUNOFF (INCHES)	6.32		5.16		5.87	
10 PERCENT EXCEEDS	317		290		292	
50 PERCENT EXCEEDS	22		29		27	
90 PERCENT EXCEEDS	2.4		3.6		2.1	

- a Gage height, 9.31 ft.
- b Backwater from Minnesota River.
- c Result of freezeup.
- e Estimated.

