

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 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 370 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 9	1400	618	5.85	May 17	0500	*1,570	*7.71
Apr 11	1400	758	6.21	May 20	2300	1,130	7.06
May 12	2400	682	6.06	Jul 3	1900	522	5.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	32	44	e12	7.3	41	124	128	197	110	22	7.3
2	5.6	32	e43	e11	7.6	47	122	122	189	111	20	6.4
3	5.6	30	e40	e10	7.3	e52	118	115	175	342	18	6.2
4	5.5	37	e39	e10	e7.4	e52	115	110	162	383	16	6.3
5	e6.0	30	e37	e10	e7.4	49	122	125	150	234	15	7.0
6	e7.0	27	e34	e9.9	e7.5	47	266	121	145	163	13	7.3
7	e6.5	25	e32	e9.8	7.6	e40	261	121	140	127	12	6.9
8	5.9	24	e30	e9.6	8.2	e40	251	123	136	152	10	6.1
9	5.8	25	e28	e9.3	8.6	e40	532	117	133	187	22	5.8
10	5.6	43	e28	e9.3	9.7	e39	455	115	135	159	22	5.4
11	5.7	53	e28	e9.2	e10	e39	672	136	167	135	24	5.6
12	5.6	69	e28	e9.4	e11	e39	555	422	189	119	26	7.0
13	5.5	90	e28	e9.0	e13	44	468	569	200	104	29	5.4
14	5.5	105	e28	e8.4	14	44	430	423	197	90	25	5.1
15	6.0	107	e28	e8.0	16	43	415	349	185	78	22	4.9
16	7.1	102	e28	e7.6	e16	50	477	442	168	71	25	4.7
17	25	91	e28	e7.2	e17	152	442	1060	150	64	27	4.8
18	42	83	e26	e7.0	e16	188	374	535	137	58	24	4.5
19	46	75	e23	e6.7	e16	167	343	392	137	54	20	4.9
20	47	54	e21	e6.2	e16	182	312	598	135	51	16	5.0
21	46	65	e19	6.1	e16	218	286	850	135	50	15	4.4
22	43	68	e17	6.0	e17	273	259	526	141	47	14	4.3
23	40	60	e17	6.0	e18	232	236	554	178	47	12	4.0
24	34	55	e17	6.1	e19	202	216	471	197	42	9.4	4.0
25	29	52	e17	e6.2	e20	173	197	415	177	38	7.6	3.8
26	25	49	e18	e6.3	21	144	190	379	155	37	6.6	3.7
27	27	48	e18	6.5	25	128	172	347	134	31	6.1	3.7
28	26	46	e19	6.6	33	145	161	311	126	31	6.1	3.5
29	27	46	e20	6.8	---	142	150	279	118	28	5.9	3.3
30	27	45	e16	7.1	---	137	137	241	113	26	6.0	3.3
31	28	---	e13	e7.0	---	132	---	213	---	25	10	---
TOTAL	606.5	1668	812	250.3	392.6	3321	8858	10709	4701	3194	506.7	154.6
MEAN	19.6	55.6	26.2	8.07	14.0	107	295	345	157	103	16.3	5.15
MAX	47	107	44	12	33	273	672	1060	200	383	29	7.3
MIN	5.5	24	13	6.0	7.3	39	115	110	113	25	5.9	3.3
AC-FT	1200	3310	1610	496	779	6590	17570	21240	9320	6340	1010	307
CFSM	.08	.23	.11	.03	.06	.45	1.25	1.46	.66	.43	.07	.02
IN.	.10	.26	.13	.04	.06	.52	1.39	1.68	.74	.50	.08	.02

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	75.3	64.1	35.6	15.6	24.2	172	262	160	161	131	81.5	101
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	FOR 2000 CALENDAR YEAR	WATER YEARS 1974 - 1999
ANNUAL TOTAL	44667.2	35173.7				
ANNUAL MEAN	122	96.4				107
HIGHEST ANNUAL MEAN						293
LOWEST ANNUAL MEAN						9.23
HIGHEST DAILY MEAN	2000	Apr 1	1060	May 17	2070	Jul 25 1997
LOWEST DAILY MEAN	5.3	Sep 18	3.3	Sep 29, 30	.46	Oct 3 1976
ANNUAL SEVEN-DAY MINIMUM	5.6	Sep 22	3.6	Sep 24	.59	Jul 10 1976
INSTANTANEOUS PEAK FLOW			1570	May 17	2830	Jul 25 1997
INSTANTANEOUS PEAK STAGE			7.71	May 17	9.72	Jun 17 1993
INSTANTANEOUS LOW FLOW			3.3	Sep 29	.20 ^a	Jan 4 1981
ANNUAL RUNOFF (AC-FT)	88600	69770			77570	
ANNUAL RUNOFF (CFSM)	.52	.41			.45	
ANNUAL RUNOFF (INCHES)	7.01	5.52			6.14	
10 PERCENT EXCEEDS	287	260			306	
50 PERCENT EXCEEDS	46	34			32	
90 PERCENT EXCEEDS	7.1	6.0			1.9	

^a Result of freezeup.

