

MINNESOTA RIVER BASIN--Continued

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 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.3	3.4	e4.2	e2.9	e5.8	23	19	42	543	155	126
2	1.7	2.2	3.4	e4.1	e3.0	5.0	28	19	42	483	123	164
3	1.8	2.2	3.3	e4.0	e3.0	e4.8	25	19	494	399	111	139
4	1.7	2.4	3.4	e4.1	e3.1	e4.6	18	18	615	322	460	118
5	1.9	2.4	3.7	4.3	e3.2	4.4	20	18	322	257	536	103
6	1.9	2.4	3.9	4.4	3.1	3.9	17	25	240	201	423	96
7	2.0	2.5	4.0	e4.2	3.3	3.9	18	23	212	164	356	88
8	2.2	2.5	4.1	4.0	3.5	4.0	25	105	192	141	303	79
9	2.3	2.9	4.0	3.9	3.7	e3.9	24	91	169	126	252	72
10	2.4	2.2	4.2	3.9	3.8	e3.8	29	60	146	122	205	66
11	2.4	2.4	4.1	3.8	3.8	e3.7	33	51	243	119	170	62
12	2.6	2.4	4.1	3.6	3.8	3.6	35	60	141	113	150	58
13	3.1	2.5	3.9	3.6	3.8	4.1	37	57	120	102	133	53
14	3.0	2.7	3.8	3.6	4.1	4.9	41	50	107	94	117	51
15	2.9	2.6	3.8	3.5	4.4	e4.8	41	45	97	86	103	48
16	2.9	2.6	3.9	3.5	4.7	e4.6	40	44	87	77	95	46
17	3.0	2.6	3.9	e3.4	4.9	5.0	39	41	82	70	121	43
18	2.9	3.0	5.1	e3.4	4.3	5.8	36	38	82	68	114	41
19	2.8	2.8	4.7	e3.3	4.9	6.9	31	37	119	73	104	40
20	3.0	2.5	4.7	e3.1	5.6	7.8	27	35	132	77	95	40
21	2.9	2.7	4.7	e2.9	5.2	e7.5	25	33	850	71	267	38
22	3.0	2.7	5.2	e2.7	5.0	e7.0	22	32	969	65	416	36
23	3.1	2.9	e5.8	2.9	5.6	e6.4	20	31	668	61	328	35
24	2.8	6.9	e5.6	e2.7	6.4	5.6	18	29	626	57	299	32
25	2.6	7.2	e5.2	2.6	e6.3	e5.5	17	29	1240	55	293	35
26	2.5	5.2	e4.8	2.8	e6.2	e5.5	16	29	1010	54	280	41
27	2.4	4.8	4.8	2.9	e6.2	11	17	30	794	49	259	39
28	2.4	4.1	4.3	2.9	6.1	31	21	47	703	53	223	38
29	2.4	3.8	e4.2	2.8	---	35	19	108	644	171	189	38
30	2.5	3.6	4.3	e2.8	---	28	19	62	592	205	158	40
31	2.4	---	e4.2	2.9	---	24	---	47	---	181	136	---
TOTAL	77.1	94.0	132.5	106.8	123.9	261.8	781	1332	11780	4659	6974	1905
MEAN	2.49	3.13	4.27	3.45	4.42	8.45	26.0	43.0	393	150	225	63.5
MAX	3.1	7.2	5.8	4.4	6.4	35	41	108	1240	543	536	164
MIN	1.6	2.2	3.3	2.6	2.9	3.6	16	18	42	49	95	32
AC-FT	153	186	263	212	246	519	1550	2640	23370	9240	13830	3780
CFSM	0.01	0.01	0.02	0.01	0.02	0.04	0.11	0.18	1.66	0.63	0.95	0.27
IN.	0.01	0.01	0.02	0.02	0.02	0.04	0.12	0.21	1.85	0.73	1.09	0.30

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	67.8	57.8	32.3	14.2	22.4	155	274	158	169	125	81.1	93.2
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	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

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1974 - 2002

ANNUAL TOTAL	53916.4	28232.4	
ANNUAL MEAN	148	77.3	104
HIGHEST ANNUAL MEAN			293 1993
LOWEST ANNUAL MEAN			9.23 1976
HIGHEST DAILY MEAN	2400 Apr 12	1240 Jun 25	2400 Apr 12 2001
LOWEST DAILY MEAN	1.6 Oct 1	1.6 Oct 1	0.46 Oct 3 1976
ANNUAL SEVEN-DAY MINIMUM	1.7 Sep 28	1.8 Oct 1	0.59 Jul 10 1976
MAXIMUM PEAK FLOW		1660 Jun 21,25	2830a Jul 25 1997
MAXIMUM PEAK STAGE		9.48 Jun 21	9.88 Apr 23 2001
INSTANTANEOUS LOW FLOW		1.4 Oct 1	0.20b Jan 4 1981
ANNUAL RUNOFF (AC-FT)	106900	56000	75560
ANNUAL RUNOFF (CFM)	0.62	0.33	0.44
ANNUAL RUNOFF (INCHES)	8.46	4.43	5.98
10 PERCENT EXCEEDS	514	205	297
50 PERCENT EXCEEDS	3.8	18	28
90 PERCENT EXCEEDS	2.3	2.7	2.0

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

