## STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued

## 04024098 DEER CREEK NEAR HOLYOKE, MN

LOCATION.--Lat  $46^\circ 31'30"$ , long  $92^\circ 23'20"$ , in  $NE^{1/4}_{4}SE^{1/4}_{4}$  sec. 29, T.47 N., R.16 W., Carlton County, Hydrologic Unit 04010301, on left bank 179 ft west of State Highway No. 23, 0.9 mi upstream from mouth and 4.0 mi north of Holyoke.

DRAINAGE AREA. -- 7.70 mi<sup>2</sup>.

PERIOD OF RECORD. -- October 1976 to December, 2001 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 786.14 ft above sea level (NGVD of 1929).

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.0	3.1									
2	1.6	2.0	3.8									
3	1.5	1.8	3.4									
4	1.6	1.8	3.4									
5	1.9	1.8	12									
6	1.8	1.9	15									
7	1.8	1.8	10									
8	2.0	1.8	3.6									
9	2.1	1.8	3.5 2.9									
10	3.5	1.8	2.9									
11	2.4	1.8	2.7									
12	1.8	1.6	2.5									
13	2.2	1.9	e1.9									
14	2.5	1.8	e1.9									
15	2.6	1.8	2.4									
16	2.6	1.7	2.6									
17	3.7	1.7	3.0									
18	2.5	1.8	3.2									
19	2.4	1.7	2.5									
20	2.0	1.7	e2.3									
21	1.9	1.6	e2.2									
22	2.1	1.7	e2.1									
23	2.8	1.9	e2.1									
24	2.0	4.0	e1.9									
25	1.9	7.1	e1.8									
26	2.1	4.2	e1.7									
27	1.9	17	e1.7									
28	1.8	17	e1.6									
29	1.9	6.0	e1.6									
30	1.9	3.8	e1.6									
31	1.9		e1.5									
TOTAL	66.2	100.3	105.5									
MEAN	2.14	3.34	3.40									
MAX	3.7	17	15									
MIN	1.5	1.6	1.5									
AC-FT	131	199	209									
CFSM	0.28	0.43	0.44									
IN.	0.32	0.48	0.51									

## STREAMS TRIBUTARY TO LAKE SUPERIOR--Continued

## 04024098 DEER CREEK NEAR HOLYOKE, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
MEAN MAX (WY) MIN (WY)	5.99 21.8 1983 1.69 1988	4.60 12.2 1983 1.59 1977	2.48 4.35 1999 1.31 1977	1.90 2.92 1992 0.97 1979	2.70 9.29 1998 1.06 1979	8.45 21.5 1995 2.34 1986	24.7 90.8 1986 4.11 1977	10.1 24.3 1991 2.15 1980	7.63 31.4 1993 1.39 1995	6.98 26.7 1999 1.50 1988	4.99 36.9 1986 0.89 1982	6.75 30.4 1986 1.24 1993		
SUMMARY STATISTICS FOR 2001 CALENDAR YEAR								WATER YEARS 1976 - 2002						
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW					3660.3 10.0 393 Apr 23 1.4 Feb 15 1.5 Aug 5					7.29 19.3 1986 3.65 1980 553 Sep 6 1990 0.21 Jul 2 1976 0.47 Aug 10 1982 2000a Sep 3 1985 32.76b Sep 3 1985 0.10 Nov 13 1996				
ANNUAL RUNOFF (AC-FT) ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					7260 1.30 17.68 18 2.1 1.6				5280 0.95 12.87 14 2.5 1.5					

a From rating curve extended above 1000  ${\rm ft^3/s}$  on basis of flow-thru-culvert computations. b From floodmark. e Estimated.

