## ST. CROIX RIVER BASIN--Continued

## 05337400 KNIFE RIVER NEAR MORA, MN

LOCATION.--Lat  $45^{\circ}55'12$ ", long  $93^{\circ}18'26$ ", in  $SW^{\frac{1}{2}}_{4}SW^{\frac{1}{2}}_{4}$  sec. 26, T.40 N., R.24 W., Kanabec County, Hydrologic Unit 07030004, on left bank 400 ft upstream from bridge on County Highway 77, 1.1 mi upstream from mouth and 2.5 mi north of Mora.

DRAINAGE AREA. -- 102 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-74; July 1974 to December 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 991.20 ft above sea level (NGVD of 1929, Kanabec County benchmark).

REMARKS. -- Records good except those for periods of estimated daily discharges, which are fair to poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 26, 1972, reached a stage of 14.0 ft, from information by local resident (discharge not determined). Result of dam failure and backwater from collapsed bridge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES DAY OCT NOV DEC FEB MAR APR MAY JUN JUL AUG SEP JAN 9.2 3.6 35 4.1 6.7 8.7 e33 8.9 8.7 3 e32 ---------------------------\_\_\_ \_\_\_ \_\_\_ \_\_\_ ------4 4.2 e32 5 3.3 8.1 e32 2.9 6 8.8 e31 2.6 9.9 e31 8 2.6 10 7.5 e30 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ e28 10 6.8 8.8 e26 11 9.3 7.9 e25 8.0 e25 ---12 10 13 12 11 e24 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ ---\_\_\_ 13 14 12 e23 15 13 12 e22 16 13 e22 10 e22 ------------------------18 10 13 e21 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ ------\_\_\_ 19 13 e20 20 8.9 11 e20 ------------21 e19 22 8.8 13 e17 ---------------------------9.3 \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ ---\_\_\_ 23 12 e16 \_\_\_ --e15 25 9.6 30 e15 ---------------------------12 37 e14 \_\_\_ 2.7 8.6 57 e14 --28 8.4 46 e14 29 11 e14 ---\_\_\_ \_\_\_ ---\_\_\_ \_\_\_ ---\_\_\_ 30 8.9 39 e13 ------------------------------------31 9.8 e13 ---TOTAL 251.1 510.5 698 17.0 22.5 ---MEAN 8.10 MAX 13 57 35 ------\_\_\_ 2.6 7.5 ---------------------------MTN 13 AC-FT 498 1010 1380 CFSM 0.08 0.17 0.22 ---------IN. 0.09 0.19 0.25 ------------

ST. CROIX RIVER BASIN--Continued

## 05337400 KNIFE RIVER NEAR MORA, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN MAX (WY) MIN (WY)	47.2 242 1985 3.25 2001	36.0 78.4 1984 1.38 1990	22.0 63.6 1984 1.17 1990	13.0 28.8 1984 1.23 1990	15.8 48.9 1984 1.16 1990	69.5 238 1983 12.2 2001	243 802 2001 35.2 1987	113 338 1986 11.4 1998	75.2 394 2001 3.06 1988	44.9 133 1991 0.98 1988	33.4 218 1995 1.94 1988	35.3 257 1986 1.69 2000
SUMMARY STATISTICS					FOR 2001 CALENDAR YEAR				WATER YEARS 1979 - 2002			
ANNUAL TOTAL ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (AC-FT) ANNUAL RUNOFF (CFSM)					44415.6 122 2620 Apr 23 2.6 Oct 7 3.7 Oct 3			62.1 135 1986 15.9 2002 2620 Apr 23 2001 0.76 Jul 7 1988 0.86 Jul 23 1988 3450 Apr 23 2001 7.76 Apr 23 2001 0.74 Jul 6 1988 44960 0.61				
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 50 PERCENT EXCEEDS 90 PERCENT EXCEEDS					16.20 230 13 6.2				8.27 144 22 5.3			

## e Estimated.

