

## RAINY RIVER BASIN--Continued

05131448 WOOD DUCK CREEK NEAR NETT LAKE, MN

LOCATION.-- Lat 48°09'24", long 93°08'20", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 35, T.66 N., R.22 W., Koochiching County, Hydrologic Unit 09030005, at bridge on Tribal Service Road, 2.9 miles above mouth at Nett Lake, and 3.5 miles northwest of the town of Nett Lake.

DRAINAGE AREA.-- 31.8 mi<sup>2</sup>.

PERIOD OF RECORD.-- October 1995 to current year.

GAGE.-- Water-stage recorder. Elevation of gage 1,275 ft above sea level (from topographic map).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC  | JAN   | FEB  | MAR   | APR   | MAY    | JUN   | JUL   | AUG  | SEP   |
|-------|------|-------|------|-------|------|-------|-------|--------|-------|-------|------|-------|
| 1     | 38   | 9.6   | e5.5 | e1.1  | e.02 | e1.1  | e9.2  | 21     | 8.5   | 8.3   | 2.2  | 4.7   |
| 2     | 33   | e9.4  | e5.4 | e1.1  | e.01 | e1.1  | e10   | 21     | 9.3   | 9.0   | 2.0  | 4.4   |
| 3     | 32   | e9.2  | e5.4 | e1.0  | e.01 | e1.2  | 12    | 20     | 8.3   | 7.7   | 1.9  | 4.8   |
| 4     | 29   | e8.9  | e5.3 | e1.0  | e.01 | e1.2  | 15    | 24     | 7.3   | 6.9   | 1.8  | 4.7   |
| 5     | 26   | e8.7  | e5.2 | e.94  | e.01 | e1.2  | 19    | 26     | 6.3   | 6.3   | 2.0  | 4.6   |
| 6     | 24   | e8.6  | e5.1 | e.89  | e.01 | e1.3  | 29    | 28     | 5.9   | 6.0   | 4.6  | 5.8   |
| 7     | 24   | e8.5  | e4.9 | e.83  | e.01 | e1.3  | 30    | 53     | 5.4   | 7.9   | 7.4  | 13    |
| 8     | 31   | e8.3  | e4.8 | e.78  | e.01 | e1.4  | 28    | 122    | 5.0   | 13    | 5.3  | 11    |
| 9     | 32   | e8.1  | e4.6 | e.71  | e.00 | e2.0  | 26    | 149    | 5.4   | 12    | 4.6  | 8.6   |
| 10    | 31   | e8.0  | e4.4 | e.65  | e.00 | e2.9  | 27    | 122    | 5.3   | 9.8   | 3.6  | 8.9   |
| 11    | 30   | e7.8  | e4.1 | e.57  | e.00 | e3.0  | 24    | 93     | 5.3   | 8.3   | 3.0  | 7.5   |
| 12    | 28   | e7.7  | e3.7 | e.50  | e.00 | e2.7  | 22    | 97     | 5.0   | 8.4   | 3.1  | 6.7   |
| 13    | 25   | 7.5   | e3.3 | e.42  | e.00 | e2.4  | 21    | 96     | 4.6   | 8.1   | 3.0  | 6.4   |
| 14    | 23   | 7.4   | e3.0 | e.34  | e.00 | e2.2  | 20    | 96     | 4.6   | 7.0   | 3.1  | 6.0   |
| 15    | 21   | e7.4  | e2.7 | e.28  | e.00 | e2.1  | 20    | 78     | 4.9   | 6.4   | 2.5  | 5.9   |
| 16    | 19   | e7.3  | e2.4 | e.24  | e.00 | e2.1  | 21    | 58     | 4.5   | 5.5   | 2.5  | 5.9   |
| 17    | 19   | e7.1  | e2.3 | e.20  | e.00 | e2.0  | 21    | 45     | 4.3   | 4.0   | 2.5  | 5.7   |
| 18    | 19   | e6.9  | e2.1 | e.16  | e.00 | e2.0  | 19    | 35     | 3.9   | 3.9   | 2.4  | 5.7   |
| 19    | 19   | e6.8  | e2.0 | e.13  | e.00 | e1.9  | 19    | 28     | 3.9   | 3.8   | 2.6  | 10    |
| 20    | 19   | e6.7  | e1.9 | e.11  | e.00 | e1.9  | 18    | 24     | 5.1   | 3.6   | 2.6  | 13    |
| 21    | 17   | e6.5  | e1.8 | e.09  | e.00 | e1.8  | 18    | 31     | 7.7   | 3.4   | 2.6  | 13    |
| 22    | 16   | e6.4  | e1.7 | e.08  | e.00 | e1.8  | 18    | 43     | 19    | 3.2   | 2.6  | 10    |
| 23    | 16   | e6.3  | e1.6 | e.06  | e.00 | e1.9  | 20    | 43     | 18    | 3.0   | 2.5  | 9.7   |
| 24    | 15   | e6.2  | e1.5 | e.05  | e.01 | e3.5  | 20    | 38     | 16    | 2.9   | 2.5  | 9.2   |
| 25    | 14   | e6.1  | e1.4 | e.04  | e.03 | e10   | 19    | 30     | 14    | 3.4   | 2.4  | 8.8   |
| 26    | 14   | e6.0  | e1.4 | e.04  | e.10 | e15   | 19    | 25     | 12    | 4.1   | 2.4  | 8.4   |
| 27    | 13   | e5.9  | e1.3 | e.03  | e.30 | e18   | 19    | 21     | 11    | 3.6   | 2.5  | 8.2   |
| 28    | 13   | e5.8  | e1.3 | e.02  | e.85 | e14   | 19    | 17     | 9.9   | 3.1   | 2.5  | 8.0   |
| 29    | 12   | e5.7  | e1.2 | e.02  | e1.0 | e11   | 19    | 14     | 10    | 2.9   | 2.2  | 8.0   |
| 30    | 11   | e5.6  | e1.2 | e.02  | ---  | e9.0  | 23    | 12     | 8.9   | 2.6   | 2.4  | 7.7   |
| 31    | 11   | ---   | e1.1 | e.02  | ---  | e8.3  | ---   | 9.6    | ---   | 2.3   | 3.9  | ---   |
| TOTAL | 674  | 220.4 | 93.6 | 12.42 | 2.38 | 131.3 | 604.2 | 1519.6 | 239.3 | 180.4 | 91.2 | 234.3 |
| MEAN  | 21.7 | 7.35  | 3.02 | .40   | .082 | 4.24  | 20.1  | 49.0   | 7.98  | 5.82  | 2.94 | 7.81  |
| MAX   | 38   | 9.6   | 5.5  | 1.1   | 1.0  | 18    | 30    | 149    | 19    | 13    | 7.4  | 13    |
| MIN   | 11   | 5.6   | 1.1  | .02   | .00  | 1.1   | 9.2   | 9.6    | 3.9   | 2.3   | 1.8  | 4.4   |
| AC-FT | 1340 | 437   | 186  | 25    | 4.7  | 260   | 1200  | 3010   | 475   | 358   | 181  | 465   |
| CFSM  | .68  | .23   | .09  | .01   | .00  | .13   | .63   | 1.54   | .25   | .18   | .09  | .25   |
| IN.   | .79  | .26   | .11  | .01   | .00  | .15   | .71   | 1.78   | .28   | .21   | .11  | .27   |

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

|      | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 25.6 | 17.5 | 6.78 | 2.33 | 2.03 | 5.26 | 81.3 | 62.3 | 8.36 | 18.2 | 13.2 | 16.0 |
| MAX  | 65.4 | 37.9 | 11.7 | 6.18 | 4.61 | 10.9 | 127  | 136  | 11.3 | 32.5 | 45.0 | 48.0 |
| (WY) | 1996 | 1997 | 1997 | 1997 | 1998 | 1998 | 1999 | 1996 | 1997 | 1996 | 1996 | 1999 |
| MIN  | 3.11 | 6.00 | 3.02 | .19  | .000 | 2.25 | 20.1 | 18.4 | 6.78 | 5.50 | .83  | .042 |
| (WY) | 1999 | 1999 | 2000 | 1999 | 1999 | 1996 | 2000 | 1998 | 1998 | 1998 | 1998 | 1998 |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1996 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 9728.26                | 4003.10             |                         |
| ANNUAL MEAN              | 26.7                   | 10.9                | 21.6                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 37.4                    |
| LOWEST ANNUAL MEAN       |                        |                     | 9.77                    |
| HIGHEST DAILY MEAN       | 282                    | 149                 | 282                     |
| LOWEST DAILY MEAN        | .00                    | .00                 | .00 <sup>a</sup>        |
| ANNUAL SEVEN-DAY MINIMUM | .00                    | .00                 | .00                     |
| INSTANTANEOUS PEAK FLOW  |                        | 169                 | 322                     |
| INSTANTANEOUS PEAK STAGE |                        | 9.15                | 12.88 <sup>b</sup>      |
| INSTANTANEOUS LOW FLOW   |                        | .00                 | .00 <sup>a</sup>        |
| ANNUAL RUNOFF (AC-FT)    | 19300                  | 7940                | 15650                   |
| ANNUAL RUNOFF (CFSM)     | .84                    | .34                 | .68                     |
| ANNUAL RUNOFF (INCHES)   | 11.38                  | 4.68                | 9.23                    |
| 10 PERCENT EXCEEDS       | 80                     | 25                  | 53                      |
| 50 PERCENT EXCEEDS       | 9.2                    | 5.7                 | 7.0                     |
| 90 PERCENT EXCEEDS       | .00                    | .10                 | .54                     |

<sup>a</sup> Many days, several years.  
<sup>b</sup> From highwater mark, backwater from ice.  
<sup>e</sup> Estimated.

