

RAINY RIVER BASIN--Continued

05131455 NETT LAKE RIVER NEAR NETT LAKE, MN

LOCATION.--Lat 48°06'36", long 93°11'12", in NE¹/₄NE¹/₄ sec. 20, T.65 N., R.22 W., Koochiching County, Hydrologic Unit 09030005, downstream from dam at outlet of Nett Lake, 4 miles west of the town of Nett Lake.

DRAINAGE AREA.--128 mi².

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

GAGE.--Water-stage recorder. Elevation of gage 1,270 ft above sea level (from topographic map).

REMARKS.--Records fair except those for estimated periods, which are poor. Regulation from Nett Lake Dam upstream of gage.

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 | .00 | .00 | e.46 | e1.5 | e1.5 | e1.3 | e24 | 346 | 307 | 7.3 | 1.2 | 3.5 |
| 2 | .00 | .00 | e.56 | e1.5 | e1.5 | e1.3 | e30 | 314 | 273 | 7.7 | 1.6 | 3.9 |
| 3 | .00 | .00 | e.70 | e1.5 | e1.5 | e1.3 | e40 | 306 | 262 | 13 | 1.8 | 9.8 |
| 4 | .00 | .00 | e.82 | e1.5 | e1.5 | e1.3 | e52 | 300 | 232 | 18 | 2.2 | 35 |
| 5 | .00 | .00 | e1.1 | e1.5 | e1.5 | e1.2 | 75 | 292 | 221 | 20 | 2.3 | 43 |
| 6 | .00 | .00 | e1.3 | e1.5 | e1.5 | e1.2 | e90 | 260 | 230 | 15 | 2.3 | 59 |
| 7 | .00 | .00 | e1.5 | e1.5 | e1.5 | e1.2 | e110 | 235 | 218 | 25 | 1.6 | 83 |
| 8 | .00 | .00 | e1.5 | e1.5 | e1.5 | e1.2 | e140 | 206 | 104 | 43 | 1.8 | 98 |
| 9 | .00 | .00 | e1.6 | e1.5 | e1.5 | e1.2 | 170 | 204 | 3.5 | 85 | 1.8 | 101 |
| 10 | .00 | .00 | e1.6 | e1.5 | 1.6 | e1.2 | 259 | 282 | 3.5 | 144 | 2.7 | 109 |
| 11 | .00 | .00 | e1.6 | e1.5 | e1.5 | e1.2 | 362 | 266 | 5.9 | 142 | 2.3 | 122 |
| 12 | .00 | .00 | e1.5 | e1.5 | e1.5 | e1.2 | 708 | 437 | 4.0 | 133 | 58 | 126 |
| 13 | .00 | e.01 | e1.5 | e1.5 | e1.5 | e1.2 | 1470 | 617 | 3.5 | 156 | 98 | 201 |
| 14 | .00 | e.01 | 1.5 | e1.5 | e1.5 | e1.2 | 1390 | 590 | 4.6 | 148 | 98 | 296 |
| 15 | .00 | e.02 | e1.5 | e1.5 | e1.5 | e1.3 | 952 | 561 | 4.9 | 138 | 101 | 300 |
| 16 | .00 | e.02 | e1.5 | e1.5 | e1.5 | e1.3 | 215 | 543 | 5.6 | 129 | 134 | 295 |
| 17 | .00 | e.02 | e1.5 | e1.5 | e1.4 | e1.3 | 226 | 505 | 4.9 | 137 | 248 | 274 |
| 18 | .00 | e.03 | e1.5 | e1.5 | e1.4 | e1.3 | 213 | 468 | 4.5 | 139 | 242 | 259 |
| 19 | .00 | e.03 | e1.5 | e1.5 | e1.4 | e1.4 | 548 | 466 | 5.1 | 128 | 230 | 240 |
| 20 | .00 | e.04 | e1.5 | e1.5 | e1.4 | e1.5 | 940 | 447 | 5.1 | 113 | 214 | 235 |
| 21 | .00 | e.05 | e1.5 | e1.5 | e1.4 | e1.5 | 869 | 428 | 4.9 | 108 | 204 | 205 |
| 22 | .00 | e.07 | e1.5 | e1.5 | e1.4 | e1.7 | 793 | 454 | 4.5 | 107 | 187 | 203 |
| 23 | .00 | e.09 | e1.5 | e1.5 | e1.4 | e2.0 | 710 | 457 | 3.4 | 102 | 110 | 190 |
| 24 | .55 | e.10 | e1.5 | e1.5 | e1.4 | e2.6 | 639 | 463 | 3.2 | 98 | 4.1 | 175 |
| 25 | 3.2 | e.14 | e1.5 | e1.5 | e1.4 | e3.1 | 583 | 451 | 4.5 | 102 | 3.8 | 165 |
| 26 | 2.2 | e.15 | e1.5 | e1.5 | e1.3 | 4.6 | 550 | 427 | 3.9 | 48 | 4.1 | 163 |
| 27 | .94 | e.20 | e1.5 | e1.5 | e1.3 | e5.8 | 507 | 408 | 3.6 | .79 | 4.5 | 176 |
| 28 | .00 | e.24 | e1.5 | e1.5 | e1.3 | e7.8 | 463 | 376 | 4.5 | 1.6 | 3.3 | 168 |
| 29 | .00 | e.30 | e1.5 | e1.5 | --- | e10 | 415 | 345 | 3.6 | 2.9 | 2.8 | 165 |
| 30 | .00 | e.36 | e1.5 | e1.5 | --- | e14 | 380 | 320 | 6.1 | 1.5 | 2.2 | 127 |
| 31 | .00 | --- | e1.5 | e1.5 | --- | e18 | --- | 340 | --- | 1.0 | 3.5 | --- |
| TOTAL | 6.89 | 1.88 | 42.74 | 46.5 | 40.6 | 96.4 | 13923 | 12114 | 1944.3 | 2313.79 | 1973.9 | 4630.2 |
| MEAN | .22 | .063 | 1.38 | 1.50 | 1.45 | 3.11 | 464 | 391 | 64.8 | 74.6 | 63.7 | 154 |
| MAX | 3.2 | .36 | 1.6 | 1.5 | 1.6 | 18 | 1470 | 617 | 307 | 156 | 248 | 300 |
| MIN | .00 | .00 | .46 | 1.5 | 1.3 | 1.2 | 24 | 204 | 3.2 | .79 | 1.2 | 3.5 |
| AC-FT | 14 | 3.7 | 85 | 92 | 81 | 191 | 27620 | 24030 | 3860 | 4590 | 3920 | 9180 |
| CFSM | .00 | .00 | .01 | .01 | .01 | .02 | 3.63 | 3.05 | .51 | .58 | .50 | 1.21 |
| IN. | .00 | .00 | .01 | .01 | .01 | .03 | 4.05 | 3.52 | .57 | .67 | .57 | 1.35 |

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 57.6 | 86.7 | 51.7 | 29.8 | 21.8 | 23.5 | 313 | 366 | 73.9 | 63.3 | 16.7 | 41.7 |
| MAX | 153 | 202 | 114 | 54.3 | 37.3 | 40.1 | 464 | 512 | 116 | 94.8 | 63.7 | 154 |
| (WY) | 1996 | 1997 | 1997 | 1997 | 1996 | 1998 | 1999 | 1996 | 1998 | 1997 | 1999 | 1999 |
| MIN | .22 | .063 | 1.38 | 1.50 | 1.45 | 3.11 | 202 | 143 | 25.4 | 1.41 | .059 | .000 |
| (WY) | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1998 | 1998 | 1997 | 1996 | 1998 | 1998 |

| SUMMARY STATISTICS | FOR 1998 CALENDAR YEAR | FOR 1999 WATER YEAR | WATER YEARS 1996 - 1999 |
|--------------------------|------------------------|------------------------|------------------------------|
| ANNUAL TOTAL | 18763.80 | 37134.20 | |
| ANNUAL MEAN | 51.4 | 102 | 95.7 |
| HIGHEST ANNUAL MEAN | | | 118 1997 |
| LOWEST ANNUAL MEAN | | | 52.6 1998 |
| HIGHEST DAILY MEAN | 364 Apr 28 | 1470 Apr 13 | 1470 Apr 13 1999 |
| LOWEST DAILY MEAN | .00 Aug 2 | .00 ^a Oct 1 | .00 ^b Jun 21 1996 |
| ANNUAL SEVEN-DAY MINIMUM | .00 Sep 5 | .00 Oct 1 | .00 Aug 13 1996 |
| INSTANTANEOUS PEAK FLOW | | 1490 Apr 13 | 1490 Apr 13 1999 |
| INSTANTANEOUS PEAK STAGE | | 7.26 Apr 13 | 7.26 Apr 13 1999 |
| ANNUAL RUNOFF (AC-FT) | 37220 | 73660 | 69360 |
| ANNUAL RUNOFF (CFSM) | .40 | .79 | .75 |
| ANNUAL RUNOFF (INCHES) | 5.45 | 10.79 | 10.16 |
| 10 PERCENT EXCEEDS | 170 | 342 | 266 |
| 50 PERCENT EXCEEDS | 11 | 2.2 | 25 |
| 90 PERCENT EXCEEDS | .00 | .00 | .04 |

a Occurred many days.

b Many days in 1996, 1998, and 1999.

