

02081500 TAR RIVER NEAR TAR RIVER, NC

LOCATION.--Lat 36°11'39", long 78°34'59", Granville County, Hydrologic Unit 03020101, on right bank 90 ft upstream from bridge on State Highway 96, 1.2 mi upstream from Fishing Creek, 2.5 mi east of town of Tar River, and 8 mi south of Oxford.

DRAINAGE AREA.--167 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723:

GAGE.--Water-stage recorder and concrete control with sharp-crested weir. Datum of gage is 286.34 ft above NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges which are poor. Occasional intermittent diversion for irrigation. Maximum discharge for period of record from rating curve extended above 11,500 ft³/s, by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|
| 1 | 51 | 31 | 168 | 61 | 245 | 981 | 216 | 74 | 20 | 6.0 | 2.8 | 0.70 |
| 2 | 42 | 30 | 143 | 59 | 173 | 355 | 582 | 138 | 20 | 5.6 | 2.8 | 0.59 |
| 3 | 38 | 29 | 121 | 58 | 161 | 221 | 720 | 92 | 23 | 5.6 | 2.8 | 0.49 |
| 4 | 37 | 103 | 99 | 57 | 373 | 171 | 298 | 61 | 31 | 5.2 | 2.1 | 0.47 |
| 5 | 34 | 278 | 85 | 57 | 277 | 148 | 204 | 51 | 39 | 5.0 | 1.8 | 0.42 |
| 6 | 29 | 156 | 77 | 58 | 198 | 133 | 166 | 54 | 33 | 4.5 | 1.6 | 0.35 |
| 7 | 26 | 91 | 90 | 55 | 156 | 123 | 146 | 59 | 28 | 4.1 | 1.7 | 0.29 |
| 8 | 24 | 64 | 92 | 53 | 134 | 265 | 498 | 55 | 25 | 4.4 | 1.6 | 0.27 |
| 9 | 23 | 51 | 85 | 51 | 120 | 455 | 328 | 49 | 21 | 4.6 | 69 | 0.22 |
| 10 | 21 | 45 | 1,380 | 51 | 118 | 235 | 226 | 43 | 21 | 4.1 | 217 | e0.21 |
| 11 | 20 | 40 | 2,370 | 50 | 119 | 175 | 166 | 42 | 19 | 4.1 | 48 | e0.20 |
| 12 | 19 | 52 | 419 | 48 | 100 | 163 | 141 | 40 | 18 | 4.1 | 21 | e0.18 |
| 13 | 29 | 1,120 | 251 | 48 | 86 | 147 | 140 | 38 | 17 | 3.8 | 11 | e0.21 |
| 14 | 80 | 386 | e194 | 1,310 | 81 | 127 | 196 | 35 | 16 | 3.5 | 7.1 | e0.23 |
| 15 | 66 | 182 | e151 | 1,880 | 89 | 112 | 157 | 34 | 15 | 4.3 | 5.9 | e0.22 |
| 16 | 44 | 130 | 121 | 377 | 100 | 118 | 116 | 33 | 13 | 4.8 | 4.8 | 0.22 |
| 17 | 34 | 101 | 106 | 247 | 94 | 786 | 94 | 32 | 12 | 3.8 | 3.8 | 0.26 |
| 18 | 27 | 83 | 99 | 179 | 81 | 951 | 84 | 30 | 10 | 3.0 | 3.4 | 0.29 |
| 19 | 23 | 74 | 91 | 141 | 69 | 448 | 80 | 29 | 9.5 | 3.2 | 2.6 | 0.35 |
| 20 | 805 | 65 | 84 | 127 | 63 | 288 | 74 | 29 | 9.2 | 9.0 | 2.3 | 0.48 |
| 21 | 227 | 60 | 77 | 133 | 63 | 216 | 67 | 32 | 8.9 | 4.2 | 1.9 | 1.0 |
| 22 | 127 | 56 | 69 | 138 | 66 | 173 | 62 | 32 | 8.3 | 3.2 | 1.7 | 1.1 |
| 23 | 82 | 73 | 78 | 134 | 66 | 207 | 59 | 30 | 8.1 | 14 | 1.6 | e0.90 |
| 24 | 61 | 342 | 151 | 113 | 84 | 484 | 62 | 28 | 7.2 | 5.1 | 1.6 | e0.80 |
| 25 | 54 | 348 | 142 | 102 | 209 | 314 | 60 | 27 | 6.8 | 2.8 | 1.6 | e0.70 |
| 26 | 49 | 220 | 103 | 111 | 169 | 217 | 53 | 26 | 6.5 | 1.9 | 1.5 | e0.64 |
| 27 | 44 | 138 | 83 | 124 | 121 | 182 | 51 | 25 | 6.3 | 1.7 | 1.3 | e0.62 |
| 28 | 41 | 679 | 71 | 98 | 683 | 1,020 | 49 | 24 | 6.3 | 1.5 | 1.1 | e0.56 |
| 29 | 37 | 477 | 66 | 78 | --- | 1,550 | 46 | 22 | 7.3 | 3.4 | 1.0 | e0.54 |
| 30 | 34 | 231 | 65 | 152 | --- | 432 | 49 | 22 | 7.0 | 3.7 | 0.90 | e0.52 |
| 31 | 32 | --- | 63 | 381 | --- | 272 | --- | 21 | --- | 3.0 | 0.82 | --- |
| TOTAL | 2,260 | 5,735 | 7,194 | 6,531 | 4,298 | 11,469 | 5,190 | 1,307 | 472.4 | 137.2 | 428.12 | 14.03 |
| MEAN | 72.9 | 191 | 232 | 211 | 154 | 370 | 173 | 42.2 | 15.7 | 4.43 | 13.8 | 0.47 |
| MAX | 805 | 1,120 | 2,370 | 1,880 | 683 | 1,550 | 720 | 138 | 39 | 14 | 217 | 1.1 |
| MIN | 19 | 29 | 63 | 48 | 63 | 112 | 46 | 21 | 6.3 | 1.5 | 0.82 | 0.18 |
| CFSM | 0.44 | 1.14 | 1.39 | 1.26 | 0.92 | 2.22 | 1.04 | 0.25 | 0.09 | 0.03 | 0.08 | 0.00 |
| IN. | 0.50 | 1.28 | 1.60 | 1.45 | 0.96 | 2.55 | 1.16 | 0.29 | 0.11 | 0.03 | 0.10 | 0.00 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 70.5 | 111 | 151 | 251 | 315 | 338 | 219 | 120 | 77.6 | 79.5 | 78.2 | 84.0 |
| MAX | 565 | 599 | 558 | 819 | 798 | 1,047 | 739 | 475 | 488 | 677 | 542 | 939 |
| (WY) | (1972) | (1973) | (1973) | (1978) | (1960) | (1998) | (2003) | (1978) | (1982) | (1975) | (1955) | (1999) |
| MIN | 0.41 | 0.28 | 4.39 | 7.04 | 44.4 | 61.0 | 33.1 | 12.1 | 2.36 | 0.92 | 1.39 | 0.28 |
| (WY) | (1971) | (1942) | (1942) | (1942) | (2002) | (1981) | (1995) | (2002) | (2002) | (1966) | (1976) | (1968) |

PAMLICO RIVER BASIN

02081500 TAR RIVER NEAR TAR RIVER, NC—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1940 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 50,286.5 | | 45,035.75 | | 157 | |
| ANNUAL MEAN | 137 | | 123 | | 384 | |
| HIGHEST ANNUAL MEAN | | | | | 26.6 | |
| LOWEST ANNUAL MEAN | | | | | 2002 | |
| HIGHEST DAILY MEAN | 2,940 | Aug 31 | 2,370 | Dec 11 | 10,800 | Sep 7, 1996 |
| LOWEST DAILY MEAN | 8.0 | Jul 10 | 0.18 | Sep 12 | 0.02 | Aug 13, 1977 |
| ANNUAL SEVEN-DAY MINIMUM | 9.6 | Jul 5 | 0.21 | Sep 9 | 0.07 | Aug 8, 1977 |
| MAXIMUM PEAK FLOW | | | 4,100 | Dec 11 | 19,900* | Sep 6, 1996 |
| MAXIMUM PEAK STAGE | | | 10.26 | Dec 11 | 24.06 | Sep 6, 1996 |
| INSTANTANEOUS LOW FLOW | | | NOT DETERMINED | | 0.00 | Aug 14, 1977 |
| ANNUAL RUNOFF (CF5M) | 0.823 | | 0.739 | | 0.941 | |
| ANNUAL RUNOFF (INCHES) | 11.20 | | 10.03 | | 12.79 | |
| 10 PERCENT EXCEEDS | 258 | | 268 | | 326 | |
| 50 PERCENT EXCEEDS | 66 | | 52 | | 45 | |
| 90 PERCENT EXCEEDS | 19 | | 1.5 | | 3.4 | |

* See REMARKS.

e Estimated.

