

PAMLICO RIVER BASIN

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC

LOCATION.--Lat 35°53'58", long 77°51'57", Nash County, Hydrologic Unit 03020101, near center of span on downstream side of bridge on Secondary Road 1544, 1.8 mi downstream of Tar River Reservoir, 2.8 mi downstream of Sapony Creek, 2.9 mi upstream from Grape Branch, and 5.0 mi southwest of Rocky Mount.

DRAINAGE AREA.--777 mi².

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 85.9 ft above sea level (levels by North Carolina State Highway Commission). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. The city of Rocky Mount diverted an average of 10.1 ft³/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for current water year due to regulation. Minimum discharge for period of record also occurred Oct. 29, 30, 1993. Maximum gage height for period of record from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1 | 210 | 155 | 120 | 285 | 520 | 566 | 4910 | 401 | 133 | 169 | 863 | 234 |
| 2 | 386 | 153 | 119 | 274 | 516 | 494 | 6240 | 369 | 397 | 178 | 572 | 216 |
| 3 | 386 | 151 | 121 | 269 | 506 | 454 | 7280 | 330 | 1540 | 190 | 398 | 248 |
| 4 | 346 | 152 | 123 | 262 | 490 | 784 | 6580 | 280 | 2100 | 183 | 312 | 207 |
| 5 | 311 | 153 | 122 | 254 | 361 | 1340 | 4290 | 294 | 127 | 187 | 250 | 149 |
| 6 | 282 | 156 | 121 | 251 | 132 | 1590 | 1820 | 220 | 129 | 224 | 205 | 143 |
| 7 | 249 | 158 | 135 | 252 | 55 | 1590 | 1320 | 178 | 156 | 323 | 180 | 138 |
| 8 | 226 | 160 | 179 | 259 | 322 | 1190 | 1120 | 387 | 210 | 344 | 176 | 137 |
| 9 | 212 | 167 | 216 | 272 | 138 | 857 | 988 | 337 | 237 | 290 | 169 | 136 |
| 10 | 199 | 182 | 234 | 280 | 176 | 675 | 898 | 209 | 243 | 231 | 157 | 136 |
| 11 | 183 | 174 | 238 | 284 | 176 | 570 | 1900 | 246 | 233 | 221 | 153 | 135 |
| 12 | 176 | 176 | 241 | 282 | 177 | 487 | 1350 | 232 | 212 | 208 | 163 | 141 |
| 13 | 176 | 177 | 228 | 276 | 178 | 476 | 1060 | 242 | 192 | 188 | 301 | 147 |
| 14 | 173 | 190 | 246 | 274 | 168 | 438 | 680 | 227 | 194 | 173 | 968 | 143 |
| 15 | 172 | 205 | 241 | 274 | 197 | 453 | 552 | 155 | 360 | 159 | 1020 | 141 |
| 16 | 170 | 222 | 272 | 455 | 371 | 518 | 502 | 126 | 1070 | 156 | 1010 | 139 |
| 17 | 167 | 241 | 472 | 585 | 661 | 556 | 482 | 117 | 2380 | 147 | 558 | 138 |
| 18 | 167 | 243 | 1080 | 566 | 1550 | 579 | 478 | 118 | 1750 | 145 | 400 | 151 |
| 19 | 166 | 250 | 1490 | 553 | 2820 | 554 | 471 | 116 | 1020 | 144 | 337 | 174 |
| 20 | 165 | 271 | 1100 | 546 | 2220 | 478 | 461 | 115 | 590 | 142 | 279 | 134 |
| 21 | 165 | 262 | 752 | 539 | 1150 | 2230 | 433 | 117 | 416 | 139 | 268 | 131 |
| 22 | 159 | 266 | 581 | 551 | 864 | 4070 | 400 | 115 | 331 | e138 | 237 | 128 |
| 23 | 155 | 262 | 480 | 566 | 777 | 4440 | 453 | 115 | 276 | e136 | 226 | 129 |
| 24 | 155 | 258 | 425 | 571 | 691 | 4460 | 426 | 116 | 266 | 133 | 206 | 127 |
| 25 | 153 | 269 | 384 | 567 | 668 | 4940 | 449 | 114 | 250 | 128 | 181 | 124 |
| 26 | 152 | 501 | 360 | 562 | 667 | 3670 | 657 | 114 | 238 | 121 | 165 | 122 |
| 27 | 153 | 934 | 322 | 554 | 659 | 1260 | 774 | 135 | 233 | 140 | 155 | 120 |
| 28 | 156 | 2550 | 303 | 547 | 622 | 973 | 655 | 348 | 216 | 1220 | 162 | 121 |
| 29 | 156 | 575 | 303 | 541 | --- | 1160 | 517 | e1500 | 196 | 2870 | 170 | 120 |
| 30 | 156 | 122 | 306 | 538 | --- | 2900 | 442 | 129 | 180 | 1700 | 169 | 120 |
| 31 | 156 | --- | 300 | 525 | --- | 4110 | --- | 125 | --- | 1080 | 174 | --- |
| TOTAL | 6238 | 9735 | 11614 | 12814 | 17832 | 48862 | 48588 | 7627 | 15875 | 11807 | 10584 | 4429 |
| MEAN | 201 | 324 | 375 | 413 | 637 | 1576 | 1620 | 246 | 529 | 381 | 341 | 148 |
| MAX | 386 | 2550 | 1490 | 585 | 2820 | 4940 | 7280 | 1500 | 2380 | 2870 | 1020 | 248 |
| MIN | 152 | 122 | 119 | 251 | 55 | 438 | 400 | 114 | 127 | 121 | 153 | 120 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY)

| | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 377 | 528 | 720 | 1357 | 1411 | 1744 | 1134 | 701 | 520 | 467 | 375 | 567 | | | | | | | | | | | | |
| MAX | 2157 | 1876 | 2406 | 2794 | 3002 | 3829 | 2864 | 2123 | 2064 | 2321 | 1147 | 6436 | | | | | | | | | | | | |
| (WY) | 2000 | 1973 | 1973 | 1978 | 1998 | 1998 | 1987 | 1989 | 1982 | 1975 | 2000 | 1999 | | | | | | | | | | | | |
| MIN | 60.2 | 66.2 | 109 | 186 | 456 | 358 | 284 | 192 | 101 | 67.9 | 77.9 | 75.4 | | | | | | | | | | | | |
| (WY) | 1994 | 1981 | 1992 | 1981 | 1991 | 1981 | 1981 | 1995 | 1991 | 1986 | 1988 | 1993 | | | | | | | | | | | | |

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | | FOR 2001 WATER YEAR | | WATER YEARS 1972 - 2001 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 314274 | | 206005 | | | |
| ANNUAL MEAN | 859 | | 564 | | 823 | |
| HIGHEST ANNUAL MEAN | | | | | 1471 | |
| LOWEST ANNUAL MEAN | | | | | 211 | |
| HIGHEST DAILY MEAN | 8630 | Jul 27 | 7280 | Apr 3 | 25000 | Sep 17 1999 |
| LOWEST DAILY MEAN | 119 | Dec 2 | 55 | Feb 7 | 29 | Oct 28 1993 |
| ANNUAL SEVEN-DAY MINIMUM | 121 | Nov 30 | 115 | May 20 | 36 | Oct 27 1993 |
| MAXIMUM PEAK FLOW | | | 7450 | Apr 3 | 29300 | Sep 16 1999 |
| MAXIMUM PEAK STAGE | | | 16.82 | Apr 3 | 32.89* | Sep 16 1999 |
| INSTANTANEOUS LOW FLOW | | | 52* | Feb 7 | 28* | Oct 28 1993 |
| 10 PERCENT EXCEEDS | 2100 | | 1150 | | 1950 | |
| 50 PERCENT EXCEEDS | 463 | | 252 | | 376 | |
| 90 PERCENT EXCEEDS | 157 | | 133 | | 97 | |

e Estimated.

* See REMARKS.

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC--Continued

