

PAMLICO RIVER BASIN

02083500 TAR RIVER AT TARBORO, NC

LOCATION.--Lat 35°53'39.9", long 77°31'59.0", North American Datum of 1983, Edgecombe County, Hydrologic Unit 03020103, on right bank 50 ft downstream of bridge on U.S. Highway 64 in Tarboro, 6.5 mi downstream of Fishing Creek, and 49.2 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,183 mi².

PERIOD OF RECORD.--July 1896 to December 1900, October 1931 to current year. Gage-height records at various datums collected at same site since 1905 are contained in reports of National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 1273: 1899-1900, 1933. WSP 1503: 1932. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.37 ft above NGVD of 1929. July 1896 to December 1900, nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum; Oct. 1 to Dec. 8, 1931, nonrecording gage at site 100 ft upstream at present datum. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation at low flow caused by mills upstream from station. Maximum gage height for period of record, from floodmarks. Town of Tarboro diverted 3.6 ft³/s for municipal water supply. Minimum discharge for period of record also occurred Oct. 22, 1933, and Oct. 6, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 27, 1919, reached a stage of 34.0 ft, present datum, from flood marks; discharge, 52,800 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 326 | 165 | 322 | 307 | 1950 | 600 | 3080 | 499 | 217 | 95 | 156 | 5230 |
| 2 | 304 | 159 | 324 | 307 | 1720 | 606 | 4870 | 456 | 214 | 92 | 137 | 6550 |
| 3 | 286 | 159 | 333 | 329 | e1510 | 819 | 5860 | 433 | 224 | 88 | 123 | 8080 |
| 4 | 260 | 159 | 294 | 353 | e1310 | 1250 | 6650 | 426 | 209 | 95 | 111 | 9180 |
| 5 | 248 | 158 | 279 | 367 | e1220 | 1320 | 6790 | 436 | 194 | 95 | 105 | 9840 |
| 6 | 245 | 156 | 274 | 424 | e1180 | 1290 | 6960 | 439 | 180 | 113 | 104 | 8510 |
| 7 | 244 | 174 | 286 | 797 | e1500 | 1210 | 6010 | 460 | 217 | 149 | 100 | 6520 |
| 8 | 236 | 183 | 301 | 1230 | 2290 | 1340 | 4000 | 491 | 228 | 144 | 93 | 3650 |
| 9 | 229 | 197 | 285 | 1700 | 3160 | 1250 | 2410 | 511 | 197 | 132 | 84 | 1810 |
| 10 | 234 | 276 | 261 | 1900 | 3730 | 1090 | 1860 | 498 | 186 | 133 | 81 | 1170 |
| 11 | 230 | 229 | 282 | 1760 | 3610 | e1010 | 1590 | 467 | 177 | 189 | 85 | 828 |
| 12 | 224 | 193 | 372 | 1600 | 3170 | e1400 | 1520 | 415 | 167 | 359 | 87 | 641 |
| 13 | 213 | 203 | 386 | 1530 | 2650 | e1340 | 1560 | 380 | 150 | 219 | 82 | 511 |
| 14 | 207 | 233 | 436 | 1530 | 3050 | e1210 | 1510 | 359 | 150 | 194 | 77 | 669 |
| 15 | 209 | 221 | 506 | 1480 | 2440 | e1170 | 1410 | 329 | 145 | 206 | 79 | 938 |
| 16 | 260 | 221 | 477 | 1400 | e1740 | e1140 | 1290 | 325 | 130 | 205 | 88 | 941 |
| 17 | 258 | 229 | 436 | 1250 | 1460 | e1090 | 1180 | 307 | 116 | 149 | 90 | 4070 |
| 18 | 232 | 235 | 435 | 1110 | 1290 | e1050 | 1080 | 300 | 109 | 130 | 93 | 5810 |
| 19 | 241 | 234 | 400 | 1040 | 1190 | e1160 | 962 | 287 | 109 | 128 | 88 | 6240 |
| 20 | 272 | 241 | 384 | 1870 | 1080 | e1710 | e921 | 277 | 110 | 124 | 81 | 5240 |
| 21 | 298 | 242 | 370 | 3670 | 1000 | e2150 | e945 | 253 | 100 | 115 | 79 | 3290 |
| 22 | 281 | 232 | 363 | 5100 | 870 | e2100 | e1120 | 256 | 94 | 126 | 77 | 2020 |
| 23 | 243 | 225 | 349 | 5730 | 737 | e1900 | 1000 | 249 | 91 | 131 | 74 | 1440 |
| 24 | 221 | 264 | 340 | 6060 | 703 | e1790 | 855 | 248 | 94 | 165 | 73 | 1010 |
| 25 | 209 | 307 | 332 | 6360 | 685 | e1720 | 783 | 237 | 90 | 218 | 75 | 764 |
| 26 | 195 | 326 | 330 | 6430 | 666 | e1580 | 748 | 232 | 88 | 392 | 154 | 632 |
| 27 | 179 | 323 | 338 | 6160 | 628 | e1450 | 660 | 232 | 90 | 229 | 710 | 580 |
| 28 | 163 | 326 | 334 | 4800 | 619 | e1740 | 612 | 232 | 107 | 195 | 510 | 548 |
| 29 | 152 | 330 | 329 | 3620 | --- | 2410 | 616 | 223 | 109 | 171 | 2900 | 514 |
| 30 | 148 | 333 | 324 | 2910 | --- | 2980 | 551 | 203 | 101 | 166 | 3610 | 462 |
| 31 | 153 | --- | 311 | 2350 | --- | 2580 | --- | 207 | --- | 165 | 3750 | --- |
| TOTAL | 7200 | 6933 | 10793 | 75474 | 47158 | 45455 | 69403 | 10667 | 4393 | 5112 | 13956 | 97688 |
| MEAN | 232.3 | 231.1 | 348.2 | 2435 | 1684 | 1466 | 2313 | 344.1 | 146.4 | 164.9 | 450.2 | 3256 |
| MAX | 326 | 333 | 506 | 6430 | 3730 | 2980 | 6960 | 511 | 228 | 392 | 3750 | 9840 |
| MIN | 148 | 156 | 261 | 307 | 619 | 600 | 551 | 203 | 88 | 88 | 73 | 462 |
| CFSM | 0.11 | 0.11 | 0.16 | 1.12 | 0.77 | 0.67 | 1.06 | 0.16 | 0.07 | 0.08 | 0.21 | 1.49 |
| IN. | 0.12 | 0.12 | 0.18 | 1.29 | 0.80 | 0.77 | 1.18 | 0.18 | 0.07 | 0.09 | 0.24 | 1.66 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2002,[®] BY WATER YEAR (WY)

| | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 1129 | 1245 | 1971 | 3311 | 4255 | 4384 | 3197 | 1813 | 1333 | 1289 | 1410 | 1593 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 8896 | 5049 | 6195 | 10020 | 12920 | 11050 | 8553 | 8411 | 4873 | 6291 | 8260 | 26760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 2000 | 1948 | 1949 | 1936 | 1899 | 1989 | 1987 | 1958 | 1979 | 1975 | 1940 | 1999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 56.7 | 115 | 191 | 253 | 497 | 1116 | 688 | 344 | 146 | 165 | 180 | 63.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1934 | 1934 | 1934 | 1934 | 1934 | 1981 | 1995 | 2002 | 2002 | 2002 | 1993 | 1968 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PAMLICO RIVER BASIN

02083500 TAR RIVER AT TARBORO, NC--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1896 - 2002 [®] | |
|--------------------------|------------------------|--------|---------------------|--------|--------------------------------------|-------------|
| ANNUAL TOTAL | 562466 | | 394232 | | 2242 | |
| ANNUAL MEAN | 1541 | | 1080 | | 4057 | |
| HIGHEST ANNUAL MEAN | | | | | 1960 | |
| LOWEST ANNUAL MEAN | | | | | 594 | |
| HIGHEST DAILY MEAN | 15700 | Apr 6 | 9840 | Sep 5 | 70500 | Sep 19 1999 |
| LOWEST DAILY MEAN | 148 | Oct 30 | 73 | Aug 24 | 36 | Oct 17 1933 |
| ANNUAL SEVEN-DAY MINIMUM | 156 | Oct 29 | 78 | Aug 19 | 40 | Sep 26 1932 |
| MAXIMUM PEAK FLOW | | | 9970 | | 70600* | |
| MAXIMUM PEAK STAGE | | | 18.96 | | 41.51* | |
| INSTANTANEOUS LOW FLOW | | | 70 | | 36 | |
| ANNUAL RUNOFF (CFSM) | 0.71 | | 0.49 | | 1.03 | |
| ANNUAL RUNOFF (INCHES) | 9.58 | | 6.72 | | 13.96 | |
| 10 PERCENT EXCEEDS | 3320 | | 3060 | | 5610 | |
| 50 PERCENT EXCEEDS | 767 | | 334 | | 1220 | |
| 90 PERCENT EXCEEDS | 235 | | 109 | | 281 | |

e Estimated.
[®] See PERIOD OF RECORD.
 * See REMARKS.

