

Water-Data Report 2007

02083500 TAR RIVER AT TARBORO, NC

Pamlico Basin
Lower Tar Subbasin

LOCATION.--Lat 35°53'40", long 77°31'59" referenced to North American Datum of 1983, Edgecombe County, NC, 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.

SURFACE-WATER RECORDS

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 the 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 9.32 ft above North American Vertical Datum of 1988. July 1896 to December 1900, nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum. October 1 to December 8, 1931, nonrecording gage at site 100 ft upstream at present datum. Telephone and satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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 4.2 ft³/s for municipal water supply.

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.

02083500 TAR RIVER AT TARBORO, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1 | 812 | 2,260 | 4,130 | 5,410 | 2,190 | 3,110 | 3,800 | 1,150 | 336 | 277 | 215 | 80 |
| 2 | 913 | 1,990 | 3,180 | 3,710 | 2,300 | 2,890 | 3,290 | 1,050 | 318 | 240 | 206 | 74 |
| 3 | 956 | 1,740 | 3,020 | 3,020 | 2,490 | 3,570 | 2,530 | 929 | 395 | 232 | 199 | 71 |
| 4 | 862 | 1,500 | 3,120 | 2,940 | 2,530 | 4,840 | 2,070 | 870 | 533 | 221 | 180 | 66 |
| 5 | 764 | 1,310 | 3,100 | 2,940 | 2,480 | 5,800 | 1,860 | 840 | 708 | 210 | 165 | 64 |
| 6 | 747 | 1,160 | 3,000 | 3,080 | 2,350 | 5,850 | 1,670 | 810 | 848 | 190 | 170 | 59 |
| 7 | 829 | 1,100 | 2,860 | 3,470 | 2,160 | 4,470 | 1,530 | 753 | 1,160 | 176 | 180 | 60 |
| 8 | 995 | 1,370 | 2,660 | 4,700 | 2,010 | 3,100 | 1,440 | 797 | 953 | 167 | 179 | 61 |
| 9 | 1,520 | 1,940 | 2,460 | 5,910 | 1,920 | 2,490 | 1,300 | 772 | 795 | 160 | 160 | 53 |
| 10 | 2,080 | 3,410 | 2,280 | 6,200 | 1,840 | 2,210 | 1,270 | 775 | 673 | 132 | 176 | 48 |
| 11 | 1,990 | 4,640 | 2,150 | 6,170 | 1,780 | 2,040 | 1,250 | 774 | 548 | 239 | 184 | 50 |
| 12 | 1,780 | 4,400 | 2,030 | 5,490 | 1,710 | 1,910 | 1,270 | 808 | 485 | 383 | 196 | 50 |
| 13 | 1,610 | 4,920 | 1,950 | 4,180 | 1,670 | 1,810 | 1,340 | 915 | 407 | 278 | 165 | 45 |
| 14 | 1,360 | 6,170 | 1,880 | 3,270 | 2,060 | 1,740 | 1,770 | 990 | 363 | 207 | 156 | 41 |
| 15 | 1,190 | 7,290 | 1,860 | 2,830 | 3,120 | 1,670 | 2,670 | 967 | 340 | 182 | 149 | 74 |
| 16 | 1,020 | 8,320 | 1,820 | 2,610 | 3,800 | 1,680 | 3,950 | 914 | 298 | 211 | 143 | 114 |
| 17 | 941 | 9,990 | 1,770 | 2,440 | 4,210 | 2,200 | 4,910 | 944 | 276 | 250 | 144 | 78 |
| 18 | 962 | 12,800 | 1,730 | 2,310 | 3,920 | 3,250 | 5,690 | 871 | 294 | 499 | 128 | 54 |
| 19 | 960 | 14,500 | 1,690 | 2,310 | 3,170 | 4,820 | 6,330 | 809 | 261 | 756 | 107 | 48 |
| 20 | 920 | 15,200 | 1,640 | 2,350 | 2,640 | 5,660 | 6,470 | 762 | 276 | 470 | 138 | 63 |
| 21 | 994 | 14,900 | 1,590 | 2,350 | 2,360 | 5,250 | 5,070 | 733 | 268 | 438 | 146 | 76 |
| 22 | 1,100 | 14,000 | 1,550 | 2,870 | 2,270 | 3,750 | 3,230 | 716 | 245 | 319 | 156 | 80 |
| 23 | 1,060 | 12,500 | 1,710 | 4,220 | 2,260 | 2,820 | 2,360 | 670 | 211 | 266 | 203 | 63 |
| 24 | 987 | 11,700 | 2,240 | 5,100 | 2,270 | 2,390 | 1,960 | 596 | 238 | 235 | 152 | 55 |
| 25 | 927 | 11,300 | 3,100 | 5,610 | 2,290 | 2,130 | 1,710 | 554 | 233 | 212 | 114 | 50 |
| 26 | 848 | 11,200 | 5,760 | 5,390 | 2,590 | 1,960 | 1,530 | 492 | 246 | 200 | 107 | 48 |
| 27 | 857 | 11,300 | 7,860 | 4,450 | 3,080 | 1,840 | 1,350 | 414 | 232 | 192 | 105 | 46 |
| 28 | 1,210 | 10,900 | 8,940 | 3,440 | 3,150 | 1,770 | 1,120 | 418 | 224 | 210 | 106 | 43 |
| 29 | 1,980 | 8,960 | 9,490 | 2,880 | --- | 1,880 | 1,180 | 390 | 232 | 283 | 90 | 40 |
| 30 | 2,120 | 6,400 | 9,280 | 2,560 | --- | 2,230 | 1,180 | 372 | 263 | 266 | 84 | 37 |
| 31 | 2,440 | --- | 7,650 | 2,330 | --- | 2,970 | --- | 373 | --- | 232 | 83 | --- |
| Total | 37,734 | 219,170 | 107,500 | 116,540 | 70,620 | 94,100 | 77,100 | 23,228 | 12,659 | 8,333 | 4,686 | 1,791 |
| Mean | 1,217 | 7,306 | 3,468 | 3,759 | 2,522 | 3,035 | 2,570 | 749 | 422 | 269 | 151 | 59.7 |
| Max | 2,440 | 15,200 | 9,490 | 6,200 | 4,210 | 5,850 | 6,470 | 1,150 | 1,160 | 756 | 215 | 114 |
| Min | 747 | 1,100 | 1,550 | 2,310 | 1,670 | 1,670 | 1,120 | 372 | 211 | 132 | 83 | 37 |
| Cfsm | 0.56 | 3.35 | 1.59 | 1.72 | 1.16 | 1.39 | 1.18 | 0.34 | 0.19 | 0.12 | 0.07 | 0.03 |
| In. | 0.64 | 3.73 | 1.83 | 1.99 | 1.20 | 1.60 | 1.31 | 0.40 | 0.22 | 0.14 | 0.08 | 0.03 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2007^a, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 1,139 | 1,359 | 2,068 | 3,263 | 4,182 | 4,341 | 3,200 | 1,825 | 1,394 | 1,292 | 1,417 | 1,625 |
| Max | 8,896 | 7,306 | 6,195 | 10,020 | 12,920 | 11,050 | 8,553 | 8,411 | 6,214 | 6,291 | 8,260 | 26,760 |
| (WY) | (2000) | (2007) | (1949) | (1936) | (1899) | (1989) | (1987) | (1958) | (2006) | (1975) | (1940) | (1999) |
| Min | 56.7 | 115 | 191 | 253 | 497 | 967 | 688 | 344 | 146 | 165 | 151 | 59.7 |
| (WY) | (1934) | (1934) | (1934) | (1934) | (1934) | (2006) | (1995) | (2002) | (2002) | (2002) | (2007) | (2007) |

02083500 TAR RIVER AT TARBORO, NC—Continued

SUMMARY STATISTICS

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1896 - 2007 ^a | |
|---------------------------------|--------------------|--------|-----------------|--------|--------------------------------------|--------------|
| Annual total | 987,692 | | 773,461 | | | |
| Annual mean | 2,706 | | 2,119 | | 2,258 | |
| Highest annual mean | | | | | 4,199 | 2003 |
| Lowest annual mean | | | | | 594 | 1981 |
| Highest daily mean | 24,300 | Jun 19 | 15,200 | Nov 20 | 70,500 | Sep 19, 1999 |
| Lowest daily mean | 146 | Aug 29 | 37 | Sep 30 | 36 | Oct 17, 1933 |
| Annual seven-day minimum | 162 | Aug 24 | 46 | Sep 24 | 40 | Sep 26, 1932 |
| Maximum peak flow | | | 15,300 | Nov 20 | ^b 70,600 | Sep 19, 1999 |
| Maximum peak stage | | | 22.97 | Nov 20 | ^b 41.51 | Sep 19, 1999 |
| Instantaneous low flow | | | 33 | Sep 30 | 33 | Sep 30, 2007 |
| Annual runoff (cfsm) | 1.24 | | 0.971 | | 1.03 | |
| Annual runoff (inches) | 16.83 | | 13.18 | | 14.05 | |
| 10 percent exceeds | 6,510 | | 5,310 | | 5,620 | |
| 50 percent exceeds | 1,520 | | 1,270 | | 1,250 | |
| 90 percent exceeds | 596 | | 111 | | 280 | |

^a See Period of Record.

^b See Remarks.

