

02089500 NEUSE RIVER AT KINSTON, NC

LOCATION.--Lat 35°15'28", long 77°35'08", Lenoir County, Hydrologic Unit 03020202, on left bank at Kinston, 600 ft downstream of bridge on State Highway 11, and 90 mi upstream from mouth.

DRAINAGE AREA.--2,692 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.90 ft above NGVD of 1929. Prior to Nov. 25, 1934, nonrecording gage at highway bridge 1 mi downstream at 10.10 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 26,000 ft³/s, Oct. 13, 1964; gage height: 22.86 ft, at site and datum then in use; minimum discharge: 124 ft³/s, Sept. 26, 1932, at site then in use. Minimum discharge for current water year also occurred July 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1919 reached a stage of 25.0 ft, at present site and datum; discharge, about 39,000 ft³/s, from information provided by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft, at present site and datum; discharge, 36,000 ft³/s, from information provided by North Carolina State Highway Commission. Flood of Sept. 25-26, 1928, reached a stage of 24.2 ft, at present site and datum; discharge, 34,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--------|---------|---------|
| 1 | 2,720 | 4,360 | 1,540 | 2,630 | 2,120 | 4,070 | 1,620 | 1,840 | 896 | 3,330 | 883 | 2,870 |
| 2 | 2,520 | 4,710 | 1,560 | 2,510 | 2,210 | 4,500 | 1,560 | 2,220 | 895 | 3,310 | 1,580 | 3,840 |
| 3 | 2,380 | 4,610 | 1,530 | 2,420 | 2,240 | 4,850 | 1,540 | 2,990 | 1,000 | 3,130 | 1,780 | 4,680 |
| 4 | 2,130 | 3,720 | 1,450 | 2,390 | 2,240 | 4,930 | 1,650 | 4,190 | 1,030 | 2,590 | 1,830 | 5,340 |
| 5 | 1,690 | 2,880 | 1,530 | 2,360 | 2,300 | 4,660 | 1,740 | 5,170 | 1,020 | 2,200 | 1,890 | 6,110 |
| 6 | 1,380 | 2,500 | 1,650 | 2,410 | 2,760 | 4,150 | 1,810 | 5,720 | 1,730 | 1,930 | 2,110 | 6,630 |
| 7 | 1,200 | 2,250 | 1,800 | 2,450 | 3,100 | 3,630 | 1,950 | 6,300 | 3,250 | 1,720 | 2,040 | 6,860 |
| 8 | 1,080 | 2,070 | 2,080 | 2,390 | 3,040 | 3,210 | 1,920 | 6,690 | 4,130 | 1,470 | 2,170 | 6,680 |
| 9 | 1,210 | 1,950 | 2,150 | 2,360 | 3,020 | 2,930 | 1,580 | 6,530 | 4,330 | 1,310 | 2,670 | 6,130 |
| 10 | 1,360 | 1,950 | 2,130 | 2,290 | 3,370 | 2,760 | 1,370 | 4,800 | 3,470 | 1,210 | 2,770 | 5,510 |
| 11 | 1,390 | 1,900 | 2,810 | 2,170 | 3,520 | 2,630 | 1,400 | 3,100 | 3,040 | 1,070 | 2,060 | 5,210 |
| 12 | 1,430 | 1,830 | 3,230 | 2,110 | 3,400 | 2,490 | 2,280 | 2,140 | 2,710 | 989 | 1,560 | 5,230 |
| 13 | 1,450 | 1,710 | 3,630 | 2,090 | 3,560 | 2,350 | 2,340 | 1,770 | 2,220 | 1,380 | 1,410 | 5,400 |
| 14 | 1,410 | 1,590 | 4,710 | 2,010 | 3,950 | 2,200 | 2,860 | 1,580 | 1,860 | 1,500 | 2,310 | 5,600 |
| 15 | 1,390 | 1,510 | 5,330 | 1,960 | 4,400 | 2,020 | 3,160 | 1,430 | 1,690 | 1,220 | 4,160 | 5,730 |
| 16 | 1,410 | 1,420 | 6,080 | 1,940 | 4,940 | 1,950 | 3,540 | 1,350 | 1,450 | 1,140 | 4,650 | 5,510 |
| 17 | 1,380 | 1,340 | 6,560 | 1,890 | 5,390 | 1,990 | 3,700 | 1,250 | 1,480 | 1,050 | 5,130 | 4,870 |
| 18 | 1,400 | 1,280 | 6,820 | 1,830 | 5,720 | 2,420 | 3,450 | 1,110 | 1,730 | 895 | 5,490 | 3,850 |
| 19 | 1,390 | 1,290 | 7,050 | 1,780 | 5,900 | 3,140 | 3,110 | 1,000 | 1,660 | 808 | 5,830 | 3,410 |
| 20 | 1,300 | 1,580 | 7,190 | 1,770 | 5,900 | 3,600 | 2,830 | 927 | 1,690 | 731 | 6,190 | 3,310 |
| 21 | 1,290 | 2,070 | 7,140 | 1,900 | 5,750 | 3,720 | 2,560 | 894 | 1,460 | 690 | 6,580 | 3,740 |
| 22 | 1,440 | 2,770 | 6,940 | 2,010 | 5,440 | 3,620 | 2,340 | 854 | 1,200 | 760 | 7,060 | 4,150 |
| 23 | 1,300 | 3,190 | 6,690 | 1,940 | 4,990 | 3,300 | 2,170 | 859 | 1,060 | 759 | 7,510 | 4,350 |
| 24 | 1,100 | 3,260 | 6,490 | 1,820 | 4,360 | 2,830 | 2,040 | 892 | 1,330 | 735 | 7,720 | 4,210 |
| 25 | 995 | 2,890 | 6,250 | 1,750 | 3,730 | 2,420 | 1,900 | 1,090 | 2,320 | 699 | 7,460 | 3,760 |
| 26 | 946 | 2,440 | 5,990 | 1,750 | 3,320 | 2,120 | 1,650 | 1,220 | 2,150 | 1,030 | 6,700 | 3,170 |
| 27 | 925 | 2,090 | 5,640 | 1,750 | 3,320 | 1,930 | 1,690 | 1,200 | 1,960 | 1,090 | 5,280 | 2,680 |
| 28 | 965 | 1,860 | 4,550 | 1,790 | 3,500 | 1,840 | 1,750 | 1,160 | 3,020 | 880 | 3,720 | 2,420 |
| 29 | 2,430 | 1,700 | 3,610 | 1,860 | 3,710 | 1,760 | 1,670 | 1,040 | 3,340 | 823 | 2,370 | 2,250 |
| 30 | 3,490 | 1,590 | 3,170 | 1,930 | --- | 1,680 | 1,790 | 954 | 3,540 | 885 | 1,870 | 2,140 |
| 31 | 3,880 | --- | 2,830 | 2,010 | --- | 1,630 | --- | 934 | --- | 736 | 1,890 | --- |
| TOTAL | 50,381 | 70,310 | 130,130 | 64,270 | 111,200 | 91,330 | 64,970 | 73,204 | 62,661 | 42,070 | 116,673 | 135,640 |
| MEAN | 1,625 | 2,344 | 4,198 | 2,073 | 3,834 | 2,946 | 2,166 | 2,361 | 2,089 | 1,357 | 3,764 | 4,521 |
| MAX | 3,880 | 4,710 | 7,190 | 2,630 | 5,900 | 4,930 | 3,700 | 6,690 | 4,330 | 3,330 | 7,720 | 6,860 |
| MIN | 925 | 1,280 | 1,450 | 1,750 | 2,120 | 1,630 | 1,370 | 854 | 895 | 690 | 883 | 2,140 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004,* BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 1,979 | 1,736 | 2,408 | 3,539 | 4,554 | 5,561 | 4,551 | 2,320 | 1,889 | 1,657 | 1,980 | 2,625 |
| MAX | 14,280 | 5,643 | 5,097 | 7,560 | 12,600 | 11,410 | 9,582 | 8,773 | 6,062 | 5,223 | 5,565 | 16,430 |
| (WY) | (2000) | (1996) | (1990) | (1993) | (1998) | (1998) | (1989) | (1989) | (1995) | (1989) | (2003) | (1999) |
| MIN | 366 | 430 | 760 | 1,181 | 1,571 | 1,673 | 878 | 563 | 400 | 468 | 314 | 357 |
| (WY) | (1984) | (1988) | (1988) | (1986) | (2001) | (1988) | (1986) | (1986) | (2002) | (1987) | (1983) | (1985) |

NEUSE RIVER BASIN

02089500 NEUSE RIVER AT KINSTON, NC—Continued

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 1983 - 2004* | |
|--------------------------|------------------------|--------|---------------------|--------|--------------------------|--------------|
| ANNUAL TOTAL | 1,647,751 | | 1,012,839 | | | |
| ANNUAL MEAN | 4,514 | | 2,767 | | 2,842 | |
| HIGHEST ANNUAL MEAN | | | | | 4,583 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 1,204 | 1988 |
| HIGHEST DAILY MEAN | 12,000 | Apr 18 | 7,720 | Aug 24 | 35,800 | Sep 23, 1999 |
| LOWEST DAILY MEAN | 925 | Oct 27 | 690 | Jul 21 | 200 | Sep 20, 1985 |
| ANNUAL SEVEN-DAY MINIMUM | 1,100 | Oct 22 | 740 | Jul 19 | 214 | Sep 16, 1985 |
| MAXIMUM PEAK FLOW | | | 7,780 | Aug 24 | 36,300 | Sep 22, 1999 |
| MAXIMUM PEAK STAGE | | | 14.95 | Aug 24 | 27.71 | Sep 22, 1999 |
| INSTANTANEOUS LOW FLOW | | | 677* | Jul 21 | 196 | Sep 20, 1985 |
| 10 PERCENT EXCEEDS | 8,150 | | 5,510 | | 7,150 | |
| 50 PERCENT EXCEEDS | 4,190 | | 2,180 | | 1,600 | |
| 90 PERCENT EXCEEDS | 1,400 | | 1,080 | | 507 | |

* Regulated period only (1983-2004). See REMARKS.

