

Water-Data Report 2007

02087570 NEUSE RIVER AT SMITHFIELD, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°30'45", long 78°20'58" referenced to North American Datum of 1983, Johnston County, NC, Hydrologic Unit 03020201, on left bank 10 ft downstream from bridge on U.S. Highway 70, at Smithfield, 2.1 mi upstream from Swift Creek, and 178 mi upstream from mouth.

DRAINAGE AREA.--1,206 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1959 to September 1990, October 1998 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 99.26 ft above NGVD of 1929. Prior to December 21, 1971, nonrecording gage on upstream side of bridge near center of span at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 26.72 ft, September 18, 1999; minimum gage height not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.80 ft, November 23; minimum gage height, 3.91 ft, September 30.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|--------|-------|-------|--------|--------|--------|--------|--------|--------|------|--------|--------|
| 1 | 5.20 | 4.96 | --- | 10.12 | 6.63 | 7.38 | 6.18 | 5.77 | 4.47 | 4.90 | 4.74 | 4.33 |
| 2 | 4.97 | 4.85 | 14.88 | 10.46 | 7.61 | 9.10 | 6.13 | 5.70 | 4.47 | 4.53 | 4.50 | 4.30 |
| 3 | 4.83 | 4.77 | 15.12 | 10.24 | 7.34 | 11.85 | 6.14 | 5.65 | 4.85 | 4.41 | 4.44 | 4.26 |
| 4 | 4.71 | 4.64 | 15.08 | 10.0 | 6.83 | 10.65 | 6.07 | 5.66 | 8.93 | 4.24 | 4.37 | 4.23 |
| 5 | 4.61 | 4.59 | 15.02 | 9.86 | 6.60 | 9.60 | 6.05 | 5.58 | 6.63 | 4.20 | 4.41 | 4.23 |
| 6 | 4.56 | 4.62 | 14.87 | 10.97 | 6.46 | 9.39 | 5.90 | 5.19 | 5.39 | 4.37 | 4.38 | 4.20 |
| 7 | 5.98 | 4.83 | 14.71 | 12.30 | 6.38 | 10.08 | 5.60 | 5.06 | 5.18 | 4.54 | 4.43 | 4.24 |
| 8 | 5.91 | 11.15 | 14.57 | 11.27 | 6.36 | 10.01 | 5.65 | 4.99 | 4.86 | 4.46 | 4.43 | 4.21 |
| 9 | 5.94 | 11.82 | --- | 11.53 | 6.29 | 8.96 | 5.57 | 4.99 | 4.70 | 4.43 | 4.32 | 4.20 |
| 10 | 5.51 | 8.40 | 14.31 | 11.52 | 6.24 | 7.37 | 5.47 | 5.08 | 4.73 | 4.47 | 4.33 | 4.19 |
| 11 | 5.20 | 6.58 | 13.82 | 12.73 | 6.20 | 7.29 | 5.24 | 5.25 | 5.01 | 4.57 | 4.69 | 4.19 |
| 12 | 4.92 | 6.88 | --- | 13.24 | 6.17 | 7.24 | 5.86 | 5.11 | 4.72 | 5.27 | 4.70 | 4.16 |
| 13 | 5.04 | 11.99 | 6.89 | 13.21 | 6.17 | 7.18 | 8.10 | 7.40 | 4.63 | 5.59 | 4.40 | 4.18 |
| 14 | 4.72 | 10.60 | 5.97 | 13.09 | 7.07 | 6.80 | 7.94 | 6.69 | 5.04 | 4.67 | 4.42 | 4.30 |
| 15 | 4.60 | 11.65 | 5.83 | 12.95 | 7.44 | 6.15 | 8.23 | 5.73 | 5.14 | 4.44 | 4.44 | 6.57 |
| 16 | 4.52 | 13.54 | 5.74 | 12.59 | 7.64 | 6.90 | 12.70 | 5.86 | 4.78 | 4.48 | 4.36 | 5.84 |
| 17 | 4.58 | 16.54 | 5.64 | 11.02 | 8.10 | 14.13 | 12.13 | 5.86 | 4.65 | 4.45 | 4.37 | 4.46 |
| 18 | 5.95 | 14.84 | 5.61 | 8.79 | 8.00 | 13.47 | 10.72 | 5.54 | 4.89 | 8.86 | 4.44 | 4.21 |
| 19 | 6.52 | 13.38 | 5.61 | 8.56 | 7.88 | 11.08 | 11.72 | 5.03 | 4.62 | 9.95 | 4.42 | 4.21 |
| 20 | 5.55 | 12.70 | 5.60 | 7.57 | 7.81 | 10.50 | 12.15 | 4.90 | 4.52 | 6.38 | 4.36 | 4.25 |
| 21 | 5.45 | 12.36 | 5.54 | 6.69 | 7.80 | 10.87 | 12.18 | 4.86 | 4.60 | 5.21 | 4.38 | 4.20 |
| 22 | 5.05 | 15.01 | 5.57 | 9.16 | 7.81 | 10.50 | 12.00 | 4.83 | 4.58 | 4.75 | 4.46 | 4.41 |
| 23 | 4.95 | 18.33 | 8.43 | 10.17 | 7.08 | 10.24 | 11.82 | 4.78 | 4.45 | 4.47 | 4.47 | 4.21 |
| 24 | 4.88 | 17.58 | 8.49 | 9.29 | 5.93 | 9.76 | 11.31 | 4.73 | 4.43 | 4.34 | 4.58 | 4.13 |
| 25 | 4.74 | 15.18 | 8.37 | 8.99 | 5.90 | 9.18 | 10.49 | 4.70 | 4.47 | --- | 4.56 | 4.10 |
| 26 | 4.65 | 12.23 | 14.83 | 8.55 | 7.21 | 9.06 | 9.85 | 4.70 | 4.55 | --- | 4.43 | 4.08 |
| 27 | 4.61 | 8.32 | 14.12 | 8.90 | 7.38 | 9.00 | 7.57 | 4.67 | 4.43 | 4.24 | 4.43 | 4.05 |
| 28 | 6.16 | 7.21 | 11.52 | 9.01 | 7.57 | 8.02 | 6.68 | 4.62 | 4.60 | 4.57 | 4.69 | 4.03 |
| 29 | 6.85 | --- | 10.38 | 8.92 | --- | 6.39 | 6.06 | 4.62 | 4.62 | 5.34 | 4.19 | 4.00 |
| 30 | 5.62 | 12.02 | 10.71 | 8.78 | --- | 6.41 | 5.86 | 4.60 | 4.86 | 5.60 | 4.28 | 3.98 |
| 31 | 5.21 | --- | 10.23 | 7.77 | --- | 6.27 | --- | 4.46 | --- | 5.07 | 4.33 | --- |
| Total | 161.99 | --- | --- | 318.25 | 195.90 | 280.83 | 247.37 | 162.61 | 147.80 | --- | 137.75 | 129.95 |
| Mean | 5.23 | --- | --- | 10.27 | 7.00 | 9.06 | 8.25 | 5.25 | 4.93 | --- | 4.44 | 4.33 |
| Max | 6.85 | --- | --- | 13.24 | 8.10 | 14.13 | 12.70 | 7.40 | 8.93 | --- | 4.74 | 6.57 |
| Min | 4.52 | --- | --- | 6.69 | 5.90 | 6.15 | 5.24 | 4.46 | 4.43 | --- | 4.19 | 3.98 |

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