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Water-Data Report 2010

**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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1998 to current year. October 1959 to September 1990, daily discharges.

GAGE.--Water-stage recorder. Datum of gage is 99.26 ft above National Geodetic Vertical Datum 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 streamgage.

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, 18.55 ft February 7; minimum gage height, 3.95 ft, November 10.

## 02087570 NEUSE RIVER AT SMITHFIELD, NC—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

| Day          | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1            | 4.53   | 4.21   | 10.29  | 13.44  | 9.34   | 14.31  | 9.30   | 5.09   | 10.34  | 4.79   | 4.82   | 4.41   |
| 2            | 4.41   | 5.35   | 9.27   | 13.23  | 9.62   | 13.71  | 7.50   | 4.89   | 11.66  | 4.49   | 4.75   | 4.45   |
| 3            | 4.30   | 5.11   | 11.99  | 12.94  | 11.23  | 11.38  | 8.73   | 4.81   | 12.96  | 4.36   | 4.57   | 4.47   |
| 4            | 4.25   | 4.70   | 15.69  | 12.71  | 13.16  | 10.90  | 9.03   | 4.80   | 12.57  | 4.46   | 4.40   | 4.45   |
| 5            | 4.20   | 4.42   | 13.50  | 12.57  | 12.57  | 9.75   | 8.87   | 4.85   | 11.85  | 4.48   | 4.80   | 4.28   |
| 6            | 4.26   | 4.24   | 13.69  | 10.42  | 16.47  | 8.50   | 8.78   | 4.77   | 11.39  | 4.48   | 8.06   | 4.19   |
| 7            | 4.33   | 4.14   | 12.55  | 7.46   | 18.22  | 7.22   | 8.33   | 4.70   | 11.12  | 4.45   | 7.45   | 4.30   |
| 8            | 4.24   | 4.12   | 11.44  | 7.29   | 15.99  | 7.08   | 7.50   | 4.70   | 9.94   | 4.45   | 5.57   | 4.34   |
| 9            | 4.17   | 4.03   | 13.47  | 7.26   | 13.73  | 6.94   | 7.81   | 4.62   | 7.37   | 4.38   | 4.93   | 4.33   |
| 10           | 4.14   | 4.05   | 16.37  | 7.18   | 11.73  | 6.73   | 7.98   | 4.55   | 5.22   | 4.74   | 4.64   | 4.28   |
| 11           | 4.13   | 7.75   | 15.25  | 7.12   | 10.69  | 6.66   | 6.64   | 4.55   | 4.94   | 5.52   | 4.53   | 4.31   |
| 12           | 4.13   | 15.23  | 14.05  | 6.54   | 11.53  | 7.02   | 6.71   | 4.57   | 4.83   | 4.73   | 4.42   | 4.35   |
| 13           | 4.17   | 15.20  | 13.77  | 5.81   | 13.31  | 8.43   | 6.51   | 4.55   | 4.89   | 4.46   | 4.93   | 4.40   |
| 14           | 4.29   | 11.70  | 13.61  | 5.72   | 14.05  | 9.22   | 6.29   | 4.59   | 5.82   | 4.39   | 4.50   | 4.33   |
| 15           | 4.30   | 9.96   | 13.39  | 5.69   | 14.14  | 8.00   | 6.21   | 4.55   | 5.68   | 4.42   | 4.34   | 4.31   |
| 16           | 4.40   | 10.04  | 13.12  | 5.67   | 14.03  | 7.15   | 6.28   | 4.53   | 5.03   | 4.43   | 4.23   | 4.13   |
| 17           | 4.27   | 9.61   | 12.86  | 6.87   | 13.90  | 6.70   | 6.23   | 5.05   | 4.96   | 4.54   | 4.18   | 4.15   |
| 18           | 4.21   | 9.99   | 12.71  | 12.20  | 13.76  | 6.57   | 6.06   | 10.80  | 4.97   | 5.31   | 4.25   | 4.15   |
| 19           | 4.15   | 10.67  | 11.45  | 10.20  | 13.76  | 6.80   | 5.89   | 11.01  | 4.76   | 4.89   | 4.72   | 4.23   |
| 20           | 4.16   | 9.84   | 10.21  | 9.81   | 14.18  | 9.06   | 5.78   | 8.80   | 4.66   | 4.55   | 6.27   | 4.23   |
| 21           | 4.23   | 7.33   | 8.65   | 11.63  | 14.38  | 11.28  | 5.71   | 6.54   | 4.60   | 4.55   | 6.13   | 4.25   |
| 22           | 4.23   | 7.09   | 10.11  | 13.70  | 14.37  | 11.58  | 5.82   | 6.74   | 4.56   | 4.95   | 5.07   | 4.26   |
| 23           | 4.20   | 7.27   | 12.73  | 12.12  | 13.53  | 11.42  | 5.78   | 9.42   | 4.52   | 4.46   | 4.97   | 4.23   |
| 24           | 4.21   | 8.05   | 12.91  | 9.60   | 13.26  | 8.32   | 5.52   | 12.86  | 4.77   | 4.39   | 7.95   | 4.20   |
| 25           | 4.15   | 7.75   | 12.91  | 10.97  | 13.73  | 5.98   | 5.55   | 10.52  | 4.76   | 4.68   | 12.26  | 4.21   |
| 26           | 4.14   | 9.05   | 13.98  | 14.33  | 14.20  | 5.85   | 6.02   | 7.40   | 4.48   | 4.30   | 11.51  | 4.35   |
| 27           | 4.12   | 10.37  | 14.34  | 12.39  | 14.40  | 5.80   | 5.65   | 6.12   | 4.50   | 4.26   | 9.32   | 8.46   |
| 28           | 4.27   | 10.30  | 13.89  | 12.54  | 14.39  | 5.68   | 5.36   | 7.27   | 4.49   | 4.63   | 6.50   | 10.17  |
| 29           | 4.38   | 10.16  | 13.41  | 12.36  | ---    | 12.27  | 5.22   | 12.40  | 4.51   | 4.71   | 4.79   | 6.96   |
| 30           | 4.24   | 10.14  | 13.05  | 9.94   | ---    | 16.13  | 5.19   | 13.46  | 4.62   | 5.37   | 4.63   | 12.97  |
| 31           | 4.20   | ---    | 13.14  | 9.61   | ---    | 13.01  | ---    | 11.72  | ---    | 6.00   | 4.51   | ---    |
| <b>Total</b> | 131.41 | 241.87 | 397.80 | 309.32 | 377.67 | 279.45 | 202.25 | 215.23 | 200.77 | 144.62 | 178.00 | 150.15 |
| <b>Mean</b>  | 4.24   | 8.06   | 12.83  | 9.98   | 13.49  | 9.01   | 6.74   | 6.94   | 6.69   | 4.67   | 5.74   | 5.00   |
| <b>Max</b>   | 4.53   | 15.23  | 16.37  | 14.33  | 18.22  | 16.13  | 9.30   | 13.46  | 12.96  | 6.00   | 12.26  | 12.97  |
| <b>Min</b>   | 4.12   | 4.03   | 8.65   | 5.67   | 9.34   | 5.68   | 5.19   | 4.53   | 4.48   | 4.26   | 4.18   | 4.13   |

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