

## 02091736 MIDDLE SWAMP NEAR FARMVILLE, NC

LOCATION.--Lat 35°31'58", long 77°32'43", Pitt County, Hydrologic Unit 03020203, at bridge on Secondary Road 1139, 1.2 mi above mouth and 5 mi southeast of Farmville.

DRAINAGE AREA.-- 51.0 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to March 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources to monitor water quality changes in an agricultural watershed. Maximum gage height for period of record probably occurred on Sept. 17, 1999, discharge not determined. Maximum gage height from floodmarks. No flow also occurred on June 10, 1999; and on several days in Sept. and Oct. 2002.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB  | MAR  | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|-------|-------|------|------|-----|-----|-----|-----|-----|-----|
| 1     | 8.1  | 4.0   | 17    | 24    | 46   | 93   | --- | --- | --- | --- | --- | --- |
| 2     | 7.0  | 4.3   | 13    | 21    | 35   | 77   | --- | --- | --- | --- | --- | --- |
| 3     | 6.1  | 4.5   | 11    | 19    | 32   | 59   | --- | --- | --- | --- | --- | --- |
| 4     | 4.8  | 4.7   | 9.6   | 16    | 39   | 41   | --- | --- | --- | --- | --- | --- |
| 5     | 3.3  | 4.5   | 8.5   | 14    | 39   | 32   | --- | --- | --- | --- | --- | --- |
| 6     | 2.2  | 3.4   | 7.7   | 11    | 36   | 27   | --- | --- | --- | --- | --- | --- |
| 7     | 1.8  | 3.3   | 7.0   | 9.3   | 31   | 23   | --- | --- | --- | --- | --- | --- |
| 8     | 1.5  | 3.6   | 6.6   | 9.0   | 27   | 25   | --- | --- | --- | --- | --- | --- |
| 9     | 1.4  | 3.6   | 7.1   | 7.9   | 24   | 31   | --- | --- | --- | --- | --- | --- |
| 10    | 1.5  | 3.5   | 15    | 6.6   | 21   | 30   | --- | --- | --- | --- | --- | --- |
| 11    | 1.6  | 3.5   | 17    | 6.1   | 19   | 26   | --- | --- | --- | --- | --- | --- |
| 12    | 1.6  | 4.4   | 15    | 6.7   | 17   | 25   | --- | --- | --- | --- | --- | --- |
| 13    | 1.7  | 16    | 12    | 6.1   | 15   | 22   | --- | --- | --- | --- | --- | --- |
| 14    | 1.9  | 48    | 9.3   | 65    | 16   | 31   | --- | --- | --- | --- | --- | --- |
| 15    | 2.2  | 23    | 7.7   | 137   | 18   | ---  | --- | --- | --- | --- | --- | --- |
| 16    | 2.4  | 16    | 6.5   | 101   | 19   | ---  | --- | --- | --- | --- | --- | --- |
| 17    | 2.5  | 14    | 6.2   | 78    | 20   | ---  | --- | --- | --- | --- | --- | --- |
| 18    | 2.5  | 11    | 5.9   | 54    | 17   | ---  | --- | --- | --- | --- | --- | --- |
| 19    | 3.0  | 8.3   | 5.7   | 38    | 16   | ---  | --- | --- | --- | --- | --- | --- |
| 20    | 3.0  | 6.4   | 5.5   | 35    | 14   | ---  | --- | --- | --- | --- | --- | --- |
| 21    | 3.0  | 4.7   | 5.0   | 36    | 13   | ---  | --- | --- | --- | --- | --- | --- |
| 22    | 3.1  | 4.0   | 5.3   | 34    | 13   | ---  | --- | --- | --- | --- | --- | --- |
| 23    | 3.0  | 9.2   | 6.2   | 33    | 12   | ---  | --- | --- | --- | --- | --- | --- |
| 24    | 2.9  | 19    | 6.2   | 27    | 37   | ---  | --- | --- | --- | --- | --- | --- |
| 25    | 2.9  | 23    | 6.3   | 26    | 78   | ---  | --- | --- | --- | --- | --- | --- |
| 26    | 2.8  | 17    | 13    | 25    | 56   | ---  | --- | --- | --- | --- | --- | --- |
| 27    | 3.0  | 14    | 17    | 22    | 41   | ---  | --- | --- | --- | --- | --- | --- |
| 28    | 3.2  | 22    | 16    | 19    | 73   | ---  | --- | --- | --- | --- | --- | --- |
| 29    | 3.3  | 27    | 15    | 17    | ---  | ---  | --- | --- | --- | --- | --- | --- |
| 30    | 3.4  | 22    | 21    | 35    | ---  | ---  | --- | --- | --- | --- | --- | --- |
| 31    | 3.6  | ---   | 25    | 57    | ---  | ---  | --- | --- | --- | --- | --- | --- |
| TOTAL | 94.3 | 351.9 | 329.3 | 995.7 | 824  | 542  | --- | --- | --- | --- | --- | --- |
| MEAN  | 3.04 | 11.7  | 10.6  | 32.1  | 29.4 | 38.7 | --- | --- | --- | --- | --- | --- |
| MAX   | 8.1  | 48    | 25    | 137   | 78   | 93   | --- | --- | --- | --- | --- | --- |
| MIN   | 1.4  | 3.3   | 5.0   | 6.1   | 12   | 22   | --- | --- | --- | --- | --- | --- |
| CFSM  | 0.06 | 0.23  | 0.21  | 0.63  | 0.58 | 0.76 | --- | --- | --- | --- | --- | --- |
| IN.   | 0.07 | 0.26  | 0.24  | 0.73  | 0.60 | 0.40 | --- | --- | --- | --- | --- | --- |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

|      |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 40.8   | 30.2   | 35.2   | 36.3   | 58.0   | 63.5   | 53.4   | 46.5   | 17.1   | 22.6   | 49.0   | 111    |
| MAX  | 166    | 61.0   | 92.0   | 91.1   | 98.3   | 180    | 150    | 173    | 48.3   | 111    | 232    | 462    |
| (WY) | (2000) | (2004) | (2004) | (2000) | (2000) | (2003) | (2003) | (2003) | (2001) | (2003) | (2003) | (1999) |
| MIN  | 0.52   | 0.35   | 0.52   | 9.29   | 22.1   | 21.4   | 20.1   | 2.09   | 0.50   | 1.77   | 0.16   | 0.01   |
| (WY) | (2002) | (2002) | (2002) | (2001) | (2001) | (2002) | (1999) | (2001) | (2002) | (2000) | (1999) | (2002) |

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| SUMMARY STATISTICS       | FOR 2004 CALENDAR YEAR |        | FOR 2005 WATER YEAR |        | WATER YEARS 1999 - 2005 |              |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL             | 8,630.63               |        |                     |        |                         |              |
| ANNUAL MEAN              | 23.6                   |        |                     |        | 45.0                    |              |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 107                     | 2003         |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 14.1                    | 2002         |
| HIGHEST DAILY MEAN       | 378                    | Aug 15 | 137                 | Jan 15 | 3,000                   | Sep 17, 1999 |
| LOWEST DAILY MEAN        | 0.16                   | Jul 18 | 1.4                 | Oct 9  | 0.00                    | Sep 6, 2002  |
| ANNUAL SEVEN-DAY MINIMUM | 0.25                   | Jul 16 | 1.6                 | Oct 7  | 0.00                    | Sep 6, 2002  |
| MAXIMUM PEAK FLOW        |                        |        | 153                 | Jan 15 | NOT DETERMINED          |              |
| MAXIMUM PEAK STAGE       |                        |        | 7.33                | Jan 15 | 19.03*                  | Sep 17, 1999 |
| INSTANTANEOUS LOW FLOW   |                        |        | 1.3                 | Oct 9  | 0.00*                   | Jun 9, 1999  |
| ANNUAL RUNOFF (CFSM)     | 0.462                  |        |                     |        | 0.882                   |              |
| ANNUAL RUNOFF (INCHES)   | 6.30                   |        |                     |        | 11.98                   |              |
| 10 PERCENT EXCEEDS       | 54                     |        |                     |        | 126                     |              |
| 50 PERCENT EXCEEDS       | 8.8                    |        |                     |        | 13                      |              |
| 90 PERCENT EXCEEDS       | 1.2                    |        |                     |        | 0.47                    |              |

\* See REMARKS.

