

NEUSE RIVER BASIN

02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'10", long 78°35'30", Johnston County, Hydrologic Unit 03020201, on left bank 800 ft downstream of bridge on State Highway 50, 0.5 mi upstream from Buffalo Branch, 3.7 mi downstream of Wake-Johnston County line, and 9.5 mi southwest of Clayton.

DRAINAGE AREA.--83.5 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for Oct. 1939, published in WSP 1303.

REVISED RECORDS.--WSP 952: 1940(M), 1941. WSP 1233: 1943(M), 1945, 1949. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 184.53 ft above sea level. Nov. 1-20, 1939, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 10,000 ft³/s, by logarithmic plotting; maximum gage height for period of record, 14.88 ft, from high-water mark in gage well. Minimum discharge for period of record, no flow, also occurred Oct. 12-13, 1954, and July 13-28, 1986. Minimum discharge for current water year also occurred Sept. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 64 | 31 | 42 | 37 | 55 | 59 | 377 | 38 | 35 | 34 | 76 | 43 |
| 2 | 60 | 31 | 40 | 37 | 47 | 56 | 561 | 34 | 273 | 34 | 63 | 42 |
| 3 | 53 | 32 | 41 | 37 | 45 | 56 | 642 | 34 | 341 | 30 | 54 | 39 |
| 4 | 46 | 33 | 41 | 39 | 44 | 174 | 243 | 31 | 77 | 26 | 47 | 37 |
| 5 | 42 | 34 | 39 | 40 | 59 | 357 | 155 | 31 | 47 | 1840 | 43 | 38 |
| 6 | 40 | 38 | 39 | 41 | 72 | 183 | 127 | 28 | 37 | 2130 | 39 | 36 |
| 7 | 36 | 40 | 39 | 42 | 60 | 102 | 111 | 25 | 33 | 520 | 36 | 33 |
| 8 | 32 | 40 | 39 | 44 | 53 | 82 | 101 | 24 | 30 | 121 | 33 | 29 |
| 9 | 29 | 41 | 38 | 50 | 49 | 73 | 91 | 23 | 30 | 197 | 30 | 30 |
| 10 | 29 | 45 | 39 | 48 | 48 | 67 | 84 | 21 | 33 | 939 | 29 | 34 |
| 11 | 29 | 49 | 38 | 44 | 49 | 63 | 76 | 22 | 32 | 784 | 82 | 37 |
| 12 | 29 | 42 | 39 | 44 | 47 | 61 | 74 | 21 | 25 | 187 | 720 | 33 |
| 13 | 29 | 40 | 38 | 49 | 70 | 64 | 71 | 20 | 32 | 114 | 810 | 27 |
| 14 | 27 | 46 | 36 | 51 | 80 | 65 | 65 | 19 | 242 | 79 | 794 | 24 |
| 15 | 25 | 60 | 38 | 48 | 78 | 71 | 62 | 18 | 315 | 66 | 271 | 22 |
| 16 | 24 | 49 | 40 | 46 | 70 | 123 | 59 | 33 | 383 | 56 | 106 | 21 |
| 17 | 23 | 41 | 132 | 43 | 106 | 96 | 54 | 71 | 631 | 49 | 76 | 20 |
| 18 | 23 | 39 | 137 | 41 | 176 | 76 | 54 | 47 | 671 | 43 | 66 | 19 |
| 19 | 24 | 41 | 73 | 42 | 92 | 66 | 52 | 38 | 132 | 40 | 94 | 18 |
| 20 | 24 | 63 | 62 | 102 | 73 | 69 | 49 | 34 | 71 | 40 | 137 | 17 |
| 21 | 22 | 72 | 58 | 143 | 67 | 485 | 45 | 45 | 54 | 36 | 99 | 20 |
| 22 | 22 | 56 | 52 | 84 | 66 | 915 | 43 | 56 | 46 | 33 | 69 | 23 |
| 23 | 21 | 44 | 49 | 66 | 86 | 776 | 41 | 49 | 88 | 29 | 57 | 24 |
| 24 | 22 | 40 | 45 | 59 | 82 | 220 | 39 | 43 | 170 | 31 | 51 | 67 |
| 25 | 24 | 51 | 43 | 54 | 72 | 130 | 92 | 31 | 133 | 69 | 51 | 134 |
| 26 | 25 | 170 | 40 | 50 | 83 | 105 | 128 | 25 | 77 | 64 | 47 | 74 |
| 27 | 26 | 120 | 40 | 48 | 75 | 94 | 73 | 35 | 60 | 530 | 42 | 43 |
| 28 | 30 | 65 | 42 | 47 | 65 | 85 | 55 | 33 | 49 | 949 | 39 | 32 |
| 29 | 32 | 48 | 41 | 45 | --- | 171 | 44 | 36 | 40 | 365 | 38 | 27 |
| 30 | 31 | 46 | 40 | 48 | --- | 576 | 39 | 42 | 38 | 142 | 37 | 24 |
| 31 | 29 | --- | 39 | 59 | --- | 810 | --- | 34 | --- | 102 | 37 | --- |
| TOTAL | 972 | 1547 | 1519 | 1628 | 1969 | 6330 | 3707 | 1041 | 4225 | 9679 | 4173 | 1067 |
| MEAN | 31.4 | 51.6 | 49.0 | 52.5 | 70.3 | 204 | 124 | 33.6 | 141 | 312 | 135 | 35.6 |
| MAX | 64 | 170 | 137 | 143 | 176 | 915 | 642 | 71 | 671 | 2130 | 810 | 134 |
| MIN | 21 | 31 | 36 | 37 | 44 | 56 | 39 | 18 | 25 | 26 | 29 | 17 |
| CFSM | .38 | .62 | .59 | .63 | .84 | 2.45 | 1.48 | .40 | 1.69 | 3.74 | 1.61 | .43 |
| IN. | .43 | .69 | .68 | .73 | .88 | 2.82 | 1.65 | .46 | 1.88 | 4.31 | 1.86 | .48 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

| | MEAN | MAX | (WY) | MIN | (WY) |
|------|------|------|------|------|------|
| MEAN | 52.6 | 64.6 | 84.5 | 138 | 166 |
| MAX | 275 | 230 | 254 | 378 | 450 |
| (WY) | 1960 | 1996 | 1973 | 1998 | 1973 |
| MIN | .77 | 4.67 | 19.7 | 31.6 | 46.2 |
| (WY) | 1987 | 1974 | 1952 | 1942 | 1941 |

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1940 - 2001

| | | | |
|--------------------------|-------|--------|-------|
| ANNUAL TOTAL | 35134 | 37857 | |
| ANNUAL MEAN | 96.0 | 104 | 90.9 |
| HIGHEST ANNUAL MEAN | | | 161 |
| LOWEST ANNUAL MEAN | | | 30.0 |
| HIGHEST DAILY MEAN | 893 | Aug 5 | 2130 |
| LOWEST DAILY MEAN | 12 | Jun 14 | 17 |
| ANNUAL SEVEN-DAY MINIMUM | 16 | Jun 8 | 20 |
| MAXIMUM PEAK FLOW | | | 4480 |
| MAXIMUM PEAK STAGE | | | 12.58 |
| INSTANTANEOUS LOW FLOW | | | 16* |
| ANNUAL RUNOFF (CFSM) | 1.15 | | 1.24 |
| ANNUAL RUNOFF (INCHES) | 15.65 | | 16.87 |
| 10 PERCENT EXCEEDS | 206 | | 170 |
| 50 PERCENT EXCEEDS | 53 | | 47 |
| 90 PERCENT EXCEEDS | 22 | | 27 |

* See REMARKS.

02088000 MIDDLE CREEK NEAR CLAYTON, NC--Continued

