

CAPE FEAR RIVER BASIN

02104220 ROCKFISH CREEK AT RAEFORD, NC

LOCATION.--Lat 34°59'55", long 79°12'55", Hoke County, Hydrologic Unit 03030004, at upstream side of bridge on U.S. Highway 401, 1.0 mi downstream of Nicholsons Creek, and 1.0 mile north of Raeford.

DRAINAGE AREA.--93.1 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 178 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred on July 23, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 52    | 57    | 66    | 62    | 83    | 69    | 165   | 48    | 46    | 25    | 88    | 88    |
| 2     | 50    | 57    | 65    | 62    | 81    | 73    | 160   | 48    | 40    | 23    | 98    | 80    |
| 3     | 48    | 56    | 64    | 70    | 78    | 120   | 118   | 48    | 37    | 25    | 56    | 57    |
| 4     | 47    | 57    | 63    | 75    | 78    | 115   | 87    | 53    | 36    | 31    | 41    | 48    |
| 5     | 46    | 54    | 63    | 76    | 76    | 90    | 76    | 79    | 34    | 32    | 35    | e42   |
| 6     | 53    | 54    | 63    | 88    | 75    | 80    | 72    | 68    | 33    | 27    | 31    | 39    |
| 7     | 117   | 56    | 62    | 132   | 115   | 76    | 69    | 58    | 38    | 26    | 28    | 37    |
| 8     | 113   | 55    | 62    | 129   | 149   | 73    | 68    | 54    | 43    | 23    | 26    | 36    |
| 9     | 76    | 54    | 62    | 105   | 142   | 71    | 66    | 56    | 37    | 21    | 24    | 36    |
| 10    | 63    | 56    | 62    | 96    | 111   | 74    | 69    | 51    | 36    | 21    | 24    | 35    |
| 11    | 59    | 55    | 82    | 98    | 97    | 70    | 75    | 57    | 32    | 37    | 23    | 34    |
| 12    | 57    | 54    | 97    | 92    | 89    | 67    | 69    | 54    | 30    | 33    | 22    | 33    |
| 13    | 55    | 56    | 83    | 95    | 84    | 75    | 74    | 50    | 29    | 28    | 21    | 32    |
| 14    | 54    | 57    | 76    | 93    | 81    | 98    | 72    | 55    | 29    | 27    | 20    | e33   |
| 15    | 64    | 58    | 73    | 83    | 79    | 81    | 79    | 57    | 28    | 52    | 22    | 43    |
| 16    | 69    | 59    | 69    | 78    | 78    | 72    | 70    | 50    | 28    | 42    | 23    | 69    |
| 17    | 58    | 61    | 68    | 75    | 77    | 68    | 65    | 48    | 27    | 30    | 26    | 72    |
| 18    | 54    | 57    | 75    | 74    | 75    | 67    | 62    | 48    | 27    | 26    | 38    | 62    |
| 19    | 54    | 57    | 77    | 74    | 74    | 65    | 61    | 73    | 27    | 23    | 32    | 68    |
| 20    | 57    | 58    | 70    | 127   | 73    | 64    | 58    | 62    | 26    | 21    | 34    | 57    |
| 21    | 55    | 57    | 66    | 141   | 74    | 78    | 57    | 54    | 26    | 21    | 32    | 47    |
| 22    | 55    | 57    | 64    | 140   | 74    | 103   | 55    | 51    | 25    | 20    | 28    | 42    |
| 23    | 56    | 57    | 64    | 146   | 73    | 83    | 52    | 48    | 25    | 20    | 26    | 38    |
| 24    | 55    | 86    | 65    | 200   | 72    | 68    | 51    | 48    | 25    | 26    | 23    | 37    |
| 25    | 56    | 112   | 67    | 203   | 71    | 61    | 52    | 45    | 24    | 28    | 23    | 35    |
| 26    | 58    | 89    | 64    | 183   | 71    | 60    | 53    | 43    | 23    | 50    | 46    | 36    |
| 27    | 56    | 77    | 64    | 138   | 71    | 111   | 51    | 41    | 23    | 45    | 71    | 42    |
| 28    | 56    | 72    | 63    | 103   | 70    | 83    | 52    | 40    | 33    | 34    | 67    | 52    |
| 29    | 55    | 69    | 63    | 93    | ---   | 68    | 52    | 39    | 39    | 29    | 62    | 50    |
| 30    | 56    | 68    | 63    | 88    | ---   | 64    | 50    | 39    | 30    | 25    | 56    | 41    |
| 31    | 57    | ---   | 62    | 85    | ---   | 83    | ---   | 45    | ---   | 23    | 65    | ---   |
| TOTAL | 1861  | 1872  | 2107  | 3304  | 2371  | 2430  | 2160  | 1610  | 936   | 894   | 1211  | 1421  |
| MEAN  | 60.03 | 62.40 | 67.97 | 106.6 | 84.68 | 78.39 | 72.00 | 51.94 | 31.20 | 28.84 | 39.06 | 47.37 |
| MAX   | 117   | 112   | 97    | 203   | 149   | 120   | 165   | 79    | 46    | 52    | 98    | 88    |
| MIN   | 46    | 54    | 62    | 62    | 70    | 60    | 50    | 39    | 23    | 20    | 20    | 32    |
| CFSM  | 0.64  | 0.67  | 0.73  | 1.14  | 0.91  | 0.84  | 0.77  | 0.56  | 0.34  | 0.31  | 0.42  | 0.51  |
| IN.   | 0.74  | 0.75  | 0.84  | 1.32  | 0.95  | 0.97  | 0.86  | 0.64  | 0.37  | 0.36  | 0.48  | 0.57  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

|      | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000 | 2001 | 2002 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| MEAN | 115.0 | 115.4 | 113.6 | 143.1 | 142.8 | 151.6 | 134.3 | 103.1 | 88.92 | 89.55 | 92.30 | 105.4 |      |      |      |
| MAX  | 207   | 169   | 186   | 209   | 291   | 289   | 305   | 182   | 175   | 224   | 176   | 247   |      |      |      |
| (WY) | 2000  | 1990  | 1990  | 1998  | 1998  | 1998  | 1998  | 1989  | 1989  | 1989  | 1989  | 1996  |      |      |      |
| MIN  | 60.0  | 62.4  | 68.0  | 90.5  | 84.7  | 78.4  | 72.0  | 51.9  | 31.2  | 28.8  | 39.1  | 47.4  |      |      |      |
| (WY) | 2002  | 2002  | 2002  | 2001  | 2002  | 2002  | 2002  | 2002  | 2002  | 2002  | 2002  | 2002  |      |      |      |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002

|                          |       |        |       |             |
|--------------------------|-------|--------|-------|-------------|
| ANNUAL TOTAL             | 26891 | 22177  |       |             |
| ANNUAL MEAN              | 73.67 | 60.76  | 116.3 |             |
| HIGHEST ANNUAL MEAN      |       |        | 167   | 1998        |
| LOWEST ANNUAL MEAN       |       |        | 60.8  | 2002        |
| HIGHEST DAILY MEAN       | 194   | Jun 18 | 884   | Sep 7 1996  |
| LOWEST DAILY MEAN        | 36    | Aug 11 | 20    | Jul 22 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 37    | Aug 7  | 22    | Aug 10 2002 |
| MAXIMUM PEAK FLOW        |       |        | 210   | Jan 24 1996 |
| MAXIMUM PEAK STAGE       |       |        | 5.82  | Jan 24 1996 |
| INSTANTANEOUS LOW FLOW   |       |        | 19*   | Jul 10 2002 |
| ANNUAL RUNOFF (CFSM)     | 0.79  | 0.65   | 1.25  |             |
| ANNUAL RUNOFF (INCHES)   | 10.74 | 8.86   | 16.98 |             |
| 10 PERCENT EXCEEDS       | 113   | 91     | 195   |             |
| 50 PERCENT EXCEEDS       | 65    | 57     | 96    |             |
| 90 PERCENT EXCEEDS       | 46    | 26     | 56    |             |

e Estimated.  
\* See REMARKS.

02104220 ROCKFISH CREEK AT RAEFORD, NC--Continued

