

PEE DEE RIVER BASIN

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, Hydrologic Unit 03040105, on left bank 300 ft downstream of Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 mi southwest of Richfield.

DRAINAGE AREA.--55.6 mi².

PERIOD OF RECORD.--May 1954 to current year.

REVISED RECORDS.--WSP 1503: 1955, 1956(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft above sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurs several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1921 reached a stage of about 19 ft, information from State Highway Commission.

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 | 6.6 | .60 | 3.6 | 3.3 | 7.8 | 15 | 89 | 4.8 | 3.6 | 7.7 | 1.1 | .47 |
| 2 | 5.5 | .59 | 3.3 | 3.2 | 7.1 | 14 | 55 | 4.5 | 6.4 | 6.2 | 1.1 | .39 |
| 3 | 4.9 | .59 | 3.0 | 3.0 | 6.5 | 13 | 42 | 4.1 | 7.1 | 5.0 | .80 | .38 |
| 4 | 4.1 | .71 | 2.7 | 2.9 | 5.9 | 230 | 39 | 3.8 | 4.4 | 17 | .54 | .81 |
| 5 | 3.4 | .52 | 2.6 | 2.9 | 5.8 | 108 | 31 | 3.6 | 3.0 | 151 | .11 | 1.0 |
| 6 | 3.0 | .53 | 2.6 | 3.1 | 5.6 | 56 | 28 | 3.2 | 2.2 | 29 | .00 | .88 |
| 7 | 2.4 | .55 | 2.5 | 3.1 | 5.3 | 38 | 25 | 2.7 | 1.9 | 16 | .00 | .75 |
| 8 | 1.9 | .56 | 2.4 | 3.6 | 5.2 | 29 | 22 | 2.6 | 2.0 | 13 | .00 | .49 |
| 9 | 1.7 | .68 | 2.4 | 4.3 | 5.0 | 24 | 19 | 2.6 | 2.6 | 14 | .97 | .37 |
| 10 | 1.5 | .91 | 2.2 | 4.2 | 5.0 | 20 | 16 | 2.5 | 2.2 | 11 | 12 | .32 |
| 11 | 1.5 | .81 | 2.0 | 3.7 | 5.0 | 18 | 14 | 2.3 | 2.2 | 8.5 | 3.0 | .23 |
| 12 | 1.3 | .69 | 1.7 | 4.6 | 5.5 | 17 | 13 | 2.2 | 1.4 | 6.5 | 2.6 | .17 |
| 13 | 1.3 | .64 | 1.9 | 6.9 | 8.1 | 19 | 13 | 1.9 | 1.2 | 5.5 | 7.1 | .14 |
| 14 | 1.3 | 1.1 | 2.0 | 7.0 | 13 | 16 | 13 | 1.8 | 1.8 | 5.0 | 8.4 | .08 |
| 15 | 1.2 | 1.1 | 2.3 | 6.4 | 15 | 36 | 12 | 1.7 | 1.7 | 4.0 | 2.9 | .01 |
| 16 | 1.1 | .90 | 2.6 | 5.9 | 13 | 64 | 11 | 1.6 | 9.9 | 3.4 | 2.0 | .00 |
| 17 | 1.0 | 1.1 | 5.8 | 4.7 | 163 | 39 | 9.3 | 1.9 | 4.0 | 3.0 | 1.4 | .00 |
| 18 | .98 | 1.2 | 7.6 | 4.7 | 75 | 27 | 8.0 | 1.8 | 2.8 | 2.7 | 587 | .00 |
| 19 | .91 | 1.6 | 6.2 | 5.8 | 38 | 21 | 7.6 | 1.7 | 1.9 | 3.0 | 92 | .00 |
| 20 | .83 | 2.2 | 5.5 | 77 | 25 | 41 | 7.3 | 1.7 | 1.3 | 2.5 | 16 | .04 |
| 21 | .81 | 2.2 | 4.8 | 46 | 19 | 622 | 6.9 | 1.6 | 1.0 | 2.3 | 8.1 | .23 |
| 22 | .87 | 2.0 | 4.4 | 25 | 31 | 200 | 6.6 | 2.4 | 117 | 2.3 | 4.7 | .07 |
| 23 | .69 | 1.8 | 3.9 | 19 | 36 | 88 | 6.3 | 4.4 | 175 | 2.2 | 3.2 | .03 |
| 24 | .66 | 1.5 | 8.4 | 16 | 24 | 56 | 5.8 | 2.7 | 28 | 2.1 | 2.4 | 165 |
| 25 | .73 | 6.3 | 23 | 13 | 23 | 39 | 13 | 2.3 | 74 | 2.4 | 1.8 | 25 |
| 26 | .70 | 18 | 6.3 | 11 | 27 | 29 | 14 | 4.6 | 55 | 2.0 | 1.4 | 7.3 |
| 27 | .75 | 9.7 | 4.5 | 10 | 20 | 23 | 9.6 | 4.3 | 35 | 1.9 | 1.1 | 4.5 |
| 28 | .75 | 6.5 | 4.4 | 9.4 | 17 | 19 | 7.4 | 3.8 | 19 | 1.9 | .86 | 2.9 |
| 29 | .77 | 5.1 | 4.1 | 8.7 | --- | 355 | 6.1 | 5.0 | 13 | 1.7 | .53 | 1.9 |
| 30 | .52 | 4.2 | 4.0 | 8.4 | --- | 466 | 5.4 | 4.7 | 9.8 | 1.7 | .42 | 1.4 |
| 31 | .61 | --- | 3.6 | 8.7 | --- | 130 | --- | 3.5 | --- | 1.5 | .42 | --- |
| TOTAL | 54.28 | 74.88 | 136.3 | 335.5 | 616.8 | 2872 | 555.3 | 92.3 | 590.4 | 336.0 | 763.95 | 214.86 |
| MEAN | 1.75 | 2.50 | 4.40 | 10.8 | 22.0 | 92.6 | 18.5 | 2.98 | 19.7 | 10.8 | 24.6 | 7.16 |
| MAX | 6.6 | 18 | 23 | 77 | 163 | 622 | 89 | 5.0 | 175 | 151 | 587 | 165 |
| MIN | .52 | .52 | 1.7 | 2.9 | 5.0 | 13 | 5.4 | 1.6 | 1.0 | 1.5 | .00 | .00 |
| CFSM | .03 | .04 | .08 | .19 | .40 | 1.67 | .33 | .05 | .35 | .19 | .44 | .13 |
| IN. | .04 | .05 | .09 | .22 | .41 | 1.92 | .37 | .06 | .40 | .22 | .51 | .14 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

| | MEAN | MAX | MIN | (WY) | (WY) | (WY) | (WY) | (WY) | (WY) | (WY) | (WY) | (WY) |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 40.8 | 31.3 | 54.8 | 110 | 132 | 122 | 72.1 | 36.5 | 28.0 | 31.3 | 23.7 | 19.7 |
| MAX | 355 | 212 | 186 | 357 | 284 | 345 | 247 | 234 | 140 | 220 | 223 | 125 |
| (WY) | 1991 | 1986 | 1977 | 1998 | 1984 | 1993 | 1958 | 1975 | 1957 | 1984 | 1967 | 1995 |
| MIN | .006 | .34 | 2.12 | 4.38 | 16.2 | 13.2 | 6.87 | 1.32 | .24 | .11 | .002 | .000 |
| (WY) | 1962 | 1962 | 1966 | 1981 | 1986 | 1981 | 1967 | 1986 | 1986 | 2000 | 1980 | 1993 |

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1954 - 2001

| | | | |
|--------------------------|---------|---------|------|
| ANNUAL TOTAL | 9965.46 | 6642.57 | |
| ANNUAL MEAN | 27.2 | 18.2 | 58.3 |
| HIGHEST ANNUAL MEAN | | | 112 |
| LOWEST ANNUAL MEAN | | | 18.2 |
| HIGHEST DAILY MEAN | 1140 | Sep 23 | 622 |
| LOWEST DAILY MEAN | .00 | Jul 4 | .00 |
| ANNUAL SEVEN-DAY MINIMUM | .00 | Aug 11 | .02 |
| MAXIMUM PEAK FLOW | | | 3360 |
| MAXIMUM PEAK STAGE | | | 8.91 |
| INSTANTANEOUS LOW FLOW | | | .00* |
| ANNUAL RUNOFF (CFSM) | .49 | | .33 |
| ANNUAL RUNOFF (INCHES) | 6.67 | | 4.44 |
| 10 PERCENT EXCEEDS | 65 | | 31 |
| 50 PERCENT EXCEEDS | 3.3 | | 4.0 |
| 90 PERCENT EXCEEDS | .01 | | .63 |

* See REMARKS.

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC--Continued

