

02114450 LITTLE YADKIN RIVER AT DALTON, NC

LOCATION.--Lat 36°17'56", long 80°25'52", Stokes County, Hydrologic Unit 03040101, on left bank 1,200 ft downstream of bridge on U.S. Highway 52, 1.0 mi southwest of Dalton, 1.3 mi downstream of Southern Railway bridge, and 2.0 mi downstream of Danbury Creek.

DRAINAGE AREA.--42.8 mi².

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft above NGVD of 1929 (North Carolina State Highway Commission bench mark). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A Natural Resources Conservation Service flood-control dam on upstream tributary, drainage area 4.7 mi² with flood storage of 695 acre-ft, was completed on June 21, 1977. Maximum discharge for period of record, from rating curve extended above 7,700 ft³/s on basis of slope-area measurement at gage height 17.86 ft. Minimum discharge for period of record also occurred Aug. 25, 26, 2002. Minimum discharge for current water year also occurred Sept. 14, 15, 16.

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 | 100 | 22 | 63 | 33 | 32 | 87 | 42 | 28 | 17 | 23 | 23 | 10 |
| 2 | 71 | 22 | 52 | 32 | 29 | 55 | 64 | 24 | 32 | 21 | 18 | 9.8 |
| 3 | 46 | 23 | 44 | 32 | 68 | 44 | 47 | 23 | 26 | 17 | 16 | 9.5 |
| 4 | 36 | 37 | 40 | 32 | 64 | 38 | 39 | 22 | 22 | 37 | 15 | 9.2 |
| 5 | 28 | 32 | 37 | 32 | 41 | 36 | 36 | 23 | 19 | 25 | 14 | 8.6 |
| 6 | 24 | 26 | 36 | 32 | 35 | 33 | 34 | 22 | 17 | 19 | 15 | 7.8 |
| 7 | 23 | 25 | 38 | 31 | 32 | 31 | 34 | 22 | 69 | 1,050 | 18 | 8.3 |
| 8 | 22 | 23 | 35 | 32 | 31 | 39 | 36 | 22 | 38 | 372 | 16 | 7.8 |
| 9 | 22 | 22 | 94 | 31 | 30 | 33 | 32 | 21 | 23 | 120 | 79 | 7.7 |
| 10 | 21 | 22 | 323 | 31 | 29 | 30 | 30 | 22 | 22 | 72 | 26 | 7.7 |
| 11 | 21 | 22 | 165 | 30 | 26 | 30 | 30 | 22 | 24 | 41 | 20 | 7.0 |
| 12 | 21 | 125 | 90 | 30 | 26 | 28 | 29 | 20 | 19 | 32 | 17 | 6.9 |
| 13 | 37 | 90 | 63 | 30 | 26 | 28 | 37 | 29 | 19 | 24 | 14 | 7.1 |
| 14 | 77 | 44 | 49 | 585 | 31 | 30 | 38 | 22 | 19 | 23 | 13 | 6.8 |
| 15 | 34 | 34 | 43 | 142 | 28 | 27 | 32 | 60 | 16 | 27 | 12 | 6.9 |
| 16 | 26 | 30 | 40 | 68 | 27 | 31 | 29 | 42 | 15 | 22 | 13 | 6.9 |
| 17 | 23 | 28 | 38 | 44 | 26 | 48 | 26 | 24 | 13 | 22 | 18 | 10 |
| 18 | 22 | 27 | 37 | 36 | 24 | 43 | 26 | 21 | 13 | 20 | 15 | 9.0 |
| 19 | 27 | 25 | 36 | 34 | 24 | 35 | 26 | 30 | 14 | 20 | 14 | 7.9 |
| 20 | 32 | 25 | e35 | 32 | 24 | 32 | 25 | 122 | 15 | 18 | 17 | 8.0 |
| 21 | 25 | 24 | e34 | 32 | 27 | 30 | 24 | 76 | 14 | 17 | 18 | 12 |
| 22 | 24 | 23 | 32 | 31 | 25 | 29 | 28 | 34 | 13 | 27 | 13 | 9.2 |
| 23 | 23 | 100 | 99 | 29 | 24 | 68 | 38 | 28 | 13 | 27 | 14 | 8.8 |
| 24 | 24 | 208 | 81 | e28 | 33 | 69 | 27 | 23 | 12 | 18 | 15 | 8.0 |
| 25 | 23 | 180 | 52 | e27 | 29 | 44 | 25 | 22 | 12 | 16 | 13 | 7.8 |
| 26 | 22 | 80 | 43 | 27 | 26 | 37 | 25 | 21 | 12 | 14 | 12 | 8.9 |
| 27 | 22 | 56 | 39 | 26 | 26 | 36 | 26 | 19 | 22 | 14 | 11 | 9.8 |
| 28 | 25 | 70 | 36 | 24 | 91 | 452 | 24 | 19 | 112 | 19 | 12 | 8.5 |
| 29 | 25 | 50 | 36 | 26 | --- | 136 | 32 | 18 | 30 | 61 | 11 | 8.0 |
| 30 | 24 | 43 | 35 | 40 | --- | 66 | 30 | 18 | 30 | 33 | 12 | 7.5 |
| 31 | 23 | --- | 34 | 40 | --- | 48 | --- | 18 | --- | 25 | 12 | --- |
| TOTAL | 973 | 1,538 | 1,879 | 1,679 | 934 | 1,773 | 971 | 917 | 722 | 2,276 | 536 | 251.4 |
| MEAN | 31.4 | 51.3 | 60.6 | 54.2 | 33.4 | 57.2 | 32.4 | 29.6 | 24.1 | 73.4 | 17.3 | 8.38 |
| MAX | 100 | 208 | 323 | 585 | 91 | 452 | 64 | 122 | 112 | 1,050 | 79 | 12 |
| MIN | 21 | 22 | 32 | 24 | 24 | 27 | 24 | 18 | 12 | 14 | 11 | 6.8 |
| CFSM | 0.73 | 1.20 | 1.42 | 1.27 | 0.78 | 1.34 | 0.76 | 0.69 | 0.56 | 1.72 | 0.40 | 0.20 |
| IN. | 0.85 | 1.34 | 1.63 | 1.46 | 0.81 | 1.54 | 0.84 | 0.80 | 0.63 | 1.98 | 0.47 | 0.22 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 35.2 | 32.8 | 46.6 | 58.0 | 63.9 | 81.1 | 60.4 | 44.4 | 38.5 | 32.4 | 30.3 | 32.0 |
| MAX | 171 | 102 | 113 | 136 | 163 | 250 | 217 | 154 | 155 | 128 | 120 | 172 |
| (WY) | (1991) | (1993) | (1974) | (1978) | (1990) | (1975) | (1987) | (1984) | (1962) | (1978) | (1970) | (1979) |
| MIN | 7.47 | 9.14 | 15.1 | 17.2 | 24.9 | 20.1 | 18.0 | 13.1 | 7.15 | 4.27 | 3.51 | 5.08 |
| (WY) | (1987) | (2002) | (2001) | (1981) | (2001) | (1967) | (1967) | (2002) | (1986) | (1986) | (2002) | (1968) |

02114450 LITTLE YADKIN RIVER AT DALTON, NC—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1960 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 17,410 | | 14,449.4 | | 46.1 | |
| ANNUAL MEAN | 47.6 | | 39.6 | | 84.9 | |
| HIGHEST ANNUAL MEAN | | | | | 19.9 | |
| LOWEST ANNUAL MEAN | | | | | 2002 | |
| HIGHEST DAILY MEAN | 2,470 | Sep 28 | 1,050 | Jul 7 | 3,350 | Jun 21, 1972 |
| LOWEST DAILY MEAN | 10 | Sep 6 | 6.8 | Sep 14 | 1.4 | Aug 21, 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 12 | Aug 31 | 7.0 | Sep 10 | 1.6 | Aug 19, 2002 |
| MAXIMUM PEAK FLOW | | | 4,530 | Jul 7 | 9,400* | Sep 22, 1979 |
| MAXIMUM PEAK STAGE | | | 11.41 | Jul 7 | 20.29 | Sep 22, 1979 |
| INSTANTANEOUS LOW FLOW | | | 6.5* | Sep 12 | 1.2* | Aug 24, 2002 |
| ANNUAL RUNOFF (CFSM) | 1.11 | | 0.925 | | 1.08 | |
| ANNUAL RUNOFF (INCHES) | 15.13 | | 12.56 | | 14.64 | |
| 10 PERCENT EXCEEDS | 70 | | 65 | | 73 | |
| 50 PERCENT EXCEEDS | 31 | | 27 | | 26 | |
| 90 PERCENT EXCEEDS | 16 | | 12 | | 12 | |

* See REMARKS.

e Estimated.

