

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC

LOCATION.--Lat 36°08'31", long 78°55'09", Durham County, Hydrologic Unit 03020201, on right bank, 5 feet downstream from bridge on Secondary Road 1461, and 1.8 mi northwest of Orange Factory.

DRAINAGE AREA.--78.2 mi².

PERIOD OF RECORD.--October 1987 to current year. Prior to October 1987, equivalent records published as "Little River near Orange Factory, NC" (02085220), September 1961 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 380 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from extension of rating curve above 2,300 ft³/s, based on contracted-opening measurement of peak flow; maximum gage height, 13.26 ft, from high-water mark in gage shelter. No flow occurs periodically.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|----------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1 | 0.74 | 92 | 29 | 109 | 161 | 454 | 201 | 65 | 70 | 196 | 38 | 351 |
| 2 | 0.79 | 65 | 26 | 209 | 108 | 739 | 141 | 67 | 59 | 1,430 | 77 | 80 |
| 3 | 0.85 | 51 | 25 | 141 | 87 | 325 | 118 | 56 | 56 | 824 | 41 | 42 |
| 4 | 0.65 | 41 | 24 | 129 | 84 | 182 | 103 | 50 | 149 | 218 | 35 | 61 |
| 5 | 0.51 | 36 | 582 | 97 | 98 | 161 | 100 | 49 | 223 | 128 | 39 | 592 |
| 6 | 0.44 | 284 | 390 | 84 | 78 | 392 | 104 | 54 | 88 | 90 | 34 | 121 |
| 7 | 0.36 | 148 | 313 | 73 | 427 | 284 | 1,530 | 56 | 350 | 75 | 56 | 70 |
| 8 | 0.29 | 83 | 198 | 67 | 335 | 162 | 871 | 48 | 864 | 63 | 43 | 54 |
| 9 | 0.26 | 60 | 170 | 63 | 154 | 130 | 2,650 | 42 | 637 | 52 | 213 | 50 |
| 10 | 0.43 | 48 | 140 | 57 | 127 | 110 | 1,540 | 40 | 192 | 51 | 1,420 | 43 |
| 11 | 3,770 | 44 | 259 | 50 | 122 | 96 | 937 | 39 | 110 | 45 | 261 | 39 |
| 12 | 825 | 251 | 305 | 45 | 99 | 90 | 332 | 35 | 89 | 46 | 116 | 34 |
| 13 | 113 | 401 | 678 | 43 | 82 | 86 | 205 | 31 | 241 | 43 | 72 | 33 |
| 14 | 69 | 146 | 767 | 43 | 74 | 99 | 155 | 28 | 115 | 133 | 277 | 34 |
| 15 | 46 | 94 | 218 | 41 | 77 | 95 | 129 | 31 | 86 | 80 | 125 | 34 |
| 16 | 386 | 76 | 136 | 39 | 89 | 600 | 116 | 87 | 222 | 49 | 185 | 33 |
| 17 | 192 | 573 | 102 | 40 | 99 | 407 | 105 | 57 | 634 | 74 | 195 | 29 |
| 18 | 82 | 430 | 85 | 38 | 113 | 188 | 95 | 51 | 183 | 46 | 84 | 60 |
| 19 | 51 | 152 | 78 | 39 | 240 | 138 | 97 | 183 | 146 | 37 | 54 | 450 |
| 20 | 36 | 102 | 105 | 36 | 186 | 3,270 | 95 | 104 | 112 | 33 | 44 | 135 |
| 21 | 30 | 83 | 120 | 36 | 133 | 1,250 | 89 | 66 | 89 | 30 | 38 | 72 |
| 22 | 37 | 72 | 87 | 35 | 568 | 286 | 86 | 936 | 75 | 50 | 34 | 52 |
| 23 | 48 | 58 | 72 | 36 | 664 | 186 | 77 | 1,070 | 64 | 234 | 41 | 703 |
| 24 | 33 | 49 | 151 | 49 | 213 | 143 | 69 | 448 | 58 | 115 | 37 | 296 |
| 25 | 26 | 46 | 811 | 41 | 141 | 120 | 68 | 344 | 52 | 59 | 29 | 109 |
| 26 | 24 | 40 | 287 | 34 | 115 | 105 | 78 | 1,550 | 49 | 39 | 26 | 75 |
| 27 | 21 | 36 | 144 | 35 | 366 | 97 | 83 | 282 | 44 | 32 | 24 | 57 |
| 28 | 177 | 35 | 112 | 40 | 797 | 89 | 75 | 147 | 42 | 28 | 22 | 49 |
| 29 | 396 | 33 | 96 | 34 | --- | 98 | 64 | 103 | 41 | 27 | 20 | 43 |
| 30 | 344 | 31 | 83 | 141 | --- | 796 | 59 | 88 | 44 | 27 | 18 | 38 |
| 31 | 157 | --- | 74 | 414 | --- | 522 | --- | 78 | --- | 29 | 177 | --- |
| TOTAL | 6,868.32 | 3,660 | 6,667 | 2,338 | 5,837 | 11,700 | 10,372 | 6,285 | 5,184 | 4,383 | 3,875 | 3,839 |
| MEAN | 222 | 122 | 215 | 75.4 | 208 | 377 | 346 | 203 | 173 | 141 | 125 | 128 |
| MAX | 3,770 | 573 | 811 | 414 | 797 | 3,270 | 2,650 | 1,550 | 864 | 1,430 | 1,420 | 703 |
| MIN | 0.26 | 31 | 24 | 34 | 74 | 86 | 59 | 28 | 41 | 27 | 18 | 29 |
| CFSM | 2.83 | 1.56 | 2.75 | 0.96 | 2.67 | 4.83 | 4.42 | 2.59 | 2.21 | 1.81 | 1.60 | 1.64 |
| IN. | 3.27 | 1.74 | 3.17 | 1.11 | 2.78 | 5.57 | 4.93 | 2.99 | 2.47 | 2.09 | 1.84 | 1.83 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 41.4 | 42.1 | 63.7 | 123 | 132 | 189 | 121 | 61.1 | 44.8 | 35.4 | 27.2 | 54.9 |
| MAX | 222 | 122 | 215 | 257 | 379 | 456 | 346 | 203 | 194 | 141 | 125 | 329 |
| (WY) | (2003) | (2003) | (2003) | (1998) | (1998) | (1993) | (2003) | (2003) | (1995) | (2003) | (2003) | (1996) |
| MIN | 0.14 | 1.33 | 5.06 | 24.2 | 22.4 | 30.9 | 17.1 | 7.48 | 2.08 | 0.31 | 0.37 | 1.27 |
| (WY) | (1994) | (1999) | (2002) | (2001) | (2002) | (1988) | (1995) | (2002) | (2002) | (2002) | (1999) | (1990) |

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

| SUMMARY STATISTICS | FOR 2002 CALENDAR YEAR | | FOR 2003 WATER YEAR | | WATER YEARS 1987 - 2003 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 22,338.99 | | 71,008.32 | | | |
| ANNUAL MEAN | 61.2 | | 195 | | 77.7 | |
| HIGHEST ANNUAL MEAN | | | | | 195 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 14.8 | 2002 |
| HIGHEST DAILY MEAN | 3,770 | Oct 11 | 3,770 | Oct 11 | 6,500 | Sep 6, 1996 |
| LOWEST DAILY MEAN | 0.00 | Aug 7 | 0.26 | Oct 9 | 0.00 | Aug 19, 1988 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Aug 7 | 0.42 | Oct 4 | 0.00 | Aug 19, 1988 |
| MAXIMUM PEAK FLOW | | | 8,420 | Oct 11 | 11,600* | Sep 6, 1996 |
| MAXIMUM PEAK STAGE | | | 8.81 | Oct 11 | 13.26* | Sep 6, 1996 |
| INSTANTANEOUS LOW FLOW | | | 0.22 | Oct 10 | 0.00* | Aug 19, 1998 |
| ANNUAL RUNOFF (CFSM) | 0.78 | | 2.49 | | 0.99 | |
| ANNUAL RUNOFF (INCHES) | 10.63 | | 33.78 | | 13.51 | |
| 10 PERCENT EXCEEDS | 138 | | 428 | | 158 | |
| 50 PERCENT EXCEEDS | 13 | | 84 | | 25 | |
| 90 PERCENT EXCEEDS | 0.16 | | 33 | | 1.8 | |

* See REMARKS.

