

02147126 WAXHAW CREEK AT SECONDARY ROAD 1103 NEAR JACKSON, NC

LOCATION.--Lat 34°50'13", long 80°47'30", Union County, Hydrologic Unit 03040103, on right upstream wingwall on Secondary Road 1103, 6 mi upstream from mouth, 6 mi southwest of Jackson and 6.5 mi south of Waxhaw.

DRAINAGE AREA.--35.0 mi².

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 490 ft above NGVD of 1929, from topographic map. Satellite telemetry at site.

REMARKS.--No estimated daily discharges. Records fair. Peak stage for period of record from crest-stage gage. Peak discharge for period of record and current water year from rating curve extended above 1,200 ft³/s on basis of step-backwater computations. No flow also occurred many days in June, July, Aug., and Sept. 2002, and Oct. 7-10, 2002. Minimum discharge for current water year also occurred Aug. 12, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|---------|------|-------|-------|--------|--------|--------|---------|
| 1 | 2.5 | 4.2 | 5.5 | 5.7 | 6.3 | 162 | 30 | 4.6 | 1.7 | 3.1 | 0.76 | 70 |
| 2 | 2.4 | 4.2 | 5.3 | 5.7 | 5.8 | 211 | 23 | 8.1 | 1.2 | 3.1 | 1.0 | 42 |
| 3 | 2.4 | 4.1 | 4.7 | 5.8 | 21 | 67 | 16 | 10 | 1.3 | 30 | 1.4 | 7.4 |
| 4 | 2.4 | 4.1 | 5.0 | 5.9 | 24 | 42 | 14 | 6.1 | 1.1 | 41 | 0.73 | 3.4 |
| 5 | 2.4 | 4.3 | 8.1 | 6.3 | 12 | 33 | 12 | 6.1 | 0.95 | 7.8 | 0.51 | 2.2 |
| 6 | 2.4 | 4.5 | 8.9 | 7.3 | 22 | 29 | 11 | 6.2 | 0.97 | 4.2 | 0.65 | 1.6 |
| 7 | 2.6 | 5.6 | 7.0 | 6.2 | 216 | 25 | 11 | 4.5 | 0.97 | 3.1 | 0.55 | 230 |
| 8 | 3.3 | 5.4 | 6.0 | 5.8 | 52 | 21 | 11 | 3.9 | 0.90 | 2.5 | 0.30 | 1,070 |
| 9 | 6.6 | 4.7 | 5.5 | 6.3 | 23 | 19 | 10 | 3.4 | 4.8 | 2.0 | 0.21 | 358 |
| 10 | 4.5 | 4.2 | 9.1 | 6.8 | 18 | 18 | 9.6 | 3.2 | 2.1 | 1.7 | 0.14 | 35 |
| 11 | 5.7 | 4.2 | 30 | 6.3 | 16 | 17 | 9.2 | 3.0 | 1.3 | 1.6 | 0.09 | 15 |
| 12 | 8.4 | 4.4 | 16 | 6.0 | 53 | 16 | 9.9 | 3.0 | 0.89 | 3.4 | 0.54 | 8.3 |
| 13 | 4.5 | 4.4 | 9.8 | 5.8 | 132 | 15 | 16 | 3.1 | 0.74 | 3.6 | 1.3 | 5.9 |
| 14 | 3.9 | 4.1 | 27 | 5.7 | 40 | 14 | 23 | 3.0 | 1.0 | 2.1 | 256 | 4.6 |
| 15 | 4.1 | 3.9 | 44 | 5.8 | 89 | 15 | 13 | 3.2 | 0.83 | 1.4 | 454 | 3.8 |
| 16 | 3.9 | 3.9 | 17 | 5.6 | 66 | 19 | 10 | 3.4 | 1.4 | 1.2 | 59 | 3.6 |
| 17 | 3.4 | 4.0 | 14 | 5.3 | 33 | 19 | 9.1 | 3.5 | 1.5 | 1.00 | 8.8 | 19 |
| 18 | 3.1 | 4.3 | 14 | 6.7 | 24 | 16 | 8.5 | 5.2 | 1.2 | 1.9 | 3.9 | 76 |
| 19 | 3.0 | 7.1 | 12 | 7.3 | 20 | 15 | 7.9 | 2.6 | 0.75 | 1.4 | 2.5 | 15 |
| 20 | 2.9 | 13 | 9.2 | 6.3 | 18 | 15 | 7.5 | 2.3 | 0.41 | 1.1 | 1.7 | 5.4 |
| 21 | 3.0 | 9.2 | 8.0 | 5.6 | 16 | 18 | 7.0 | 2.2 | 1.2 | 0.77 | 1.3 | 3.6 |
| 22 | 3.1 | 6.4 | 7.3 | 5.4 | 14 | 18 | 6.4 | 2.0 | 2.5 | 0.62 | 3.0 | 3.1 |
| 23 | 2.9 | 5.4 | 7.3 | 5.4 | 13 | 14 | 6.1 | 2.1 | 4.3 | 0.56 | 3.3 | 2.7 |
| 24 | 2.9 | 4.9 | 8.3 | 5.3 | 13 | 12 | 5.8 | 2.0 | 85 | 0.49 | 1.8 | 2.5 |
| 25 | 2.7 | 4.8 | 7.8 | 5.6 | 13 | 12 | 5.4 | 1.9 | 14 | 0.53 | 1.2 | 2.3 |
| 26 | 2.9 | 4.7 | 6.9 | 6.0 | 14 | 12 | 5.3 | 1.6 | 6.2 | 0.93 | 1.1 | 2.2 |
| 27 | 3.5 | 5.4 | 6.5 | 6.0 | 21 | 13 | 6.1 | 1.4 | 4.9 | 1.3 | 0.73 | 8.1 |
| 28 | 4.2 | 6.4 | 6.3 | 6.3 | 30 | 12 | 5.4 | 1.3 | 15 | 1.9 | 0.67 | 1,040 |
| 29 | 11 | 6.3 | 6.2 | 7.1 | 76 | 11 | 5.0 | 1.3 | 6.4 | 1.4 | 0.86 | 294 |
| 30 | 9.8 | 5.6 | 6.2 | 7.9 | --- | 12 | 4.6 | 1.2 | 4.0 | 1.8 | 6.1 | 36 |
| 31 | 5.4 | --- | 6.0 | 7.3 | --- | 22 | --- | 1.6 | --- | 0.86 | 82 | --- |
| TOTAL | 125.8 | 157.7 | 334.9 | 190.5 | 1,101.1 | 944 | 318.8 | 107.0 | 169.51 | 128.36 | 896.14 | 3,370.7 |
| MEAN | 4.06 | 5.26 | 10.8 | 6.15 | 38.0 | 30.5 | 10.6 | 3.45 | 5.65 | 4.14 | 28.9 | 112 |
| MAX | 11 | 13 | 44 | 7.9 | 216 | 211 | 30 | 10 | 85 | 41 | 454 | 1,070 |
| MIN | 2.4 | 3.9 | 4.7 | 5.3 | 5.8 | 11 | 4.6 | 1.2 | 0.41 | 0.49 | 0.09 | 1.6 |
| CFSM | 0.12 | 0.15 | 0.31 | 0.18 | 1.08 | 0.87 | 0.30 | 0.10 | 0.16 | 0.12 | 0.83 | 3.21 |
| IN. | 0.13 | 0.17 | 0.36 | 0.20 | 1.17 | 1.00 | 0.34 | 0.11 | 0.18 | 0.14 | 0.95 | 3.58 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 7.80 | 20.8 | 38.3 | 12.1 | 70.3 | 103 | 95.3 | 14.4 | 15.4 | 19.3 | 21.1 | 41.9 |
| MAX | 11.6 | 36.3 | 65.7 | 18.0 | 104 | 176 | 180 | 36.0 | 38.2 | 53.0 | 34.2 | 112 |
| (WY) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2003) | (2004) |
| MIN | 4.06 | 5.26 | 10.8 | 6.15 | 38.0 | 30.5 | 10.6 | 3.45 | 2.23 | 0.61 | 0.12 | 5.64 |
| (WY) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2004) | (2002) | (2002) | (2002) | (2003) |

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 2002 - 2004 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 20,075.80 | | 7,844.51 | | 42.1 | |
| ANNUAL MEAN | 55.0 | | 21.4 | | 21.4 | |
| HIGHEST ANNUAL MEAN | | | | | 62.9 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 21.4 | 2004 |
| HIGHEST DAILY MEAN | e1,600 | Mar 20 | 1,070 | Sep 8 | e1,600 | Mar 20, 2003 |
| LOWEST DAILY MEAN | 1.9 | Sep 20 | 0.09 | Aug 11 | 0.00* | Jun 24, 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 2.0 | Sep 16 | 0.35 | Aug 5 | 0.00 | Jun 24, 2002 |
| MAXIMUM PEAK FLOW | | | 1,560* | Sep 28 | 2,880* | Mar 20, 2003 |
| MAXIMUM PEAK STAGE | | | 9.25 | Sep 28 | 10.71* | Mar 20, 2003 |
| INSTANTANEOUS LOW FLOW | | | 0.05* | Aug 11 | 0.00* | Jun 21, 2002 |
| ANNUAL RUNOFF (CFSM) | 1.57 | | 0.612 | | 1.20 | |
| ANNUAL RUNOFF (INCHES) | 21.34 | | 8.34 | | 16.35 | |
| 10 PERCENT EXCEEDS | 124 | | 28 | | 76 | |
| 50 PERCENT EXCEEDS | 9.2 | | 5.6 | | 7.9 | |
| 90 PERCENT EXCEEDS | 3.4 | | 1.2 | | 1.8 | |

* See REMARKS.

e Estimated.

