

03440000 CATHEYS CREEK NEAR BREVARD, NC

LOCATION.--Lat 35°12'40", long 82°46'59", Transylvania County, Hydrologic Unit 06010105, on right bank 1,200 ft downstream of Kuykendall Creek, 1.0 mi upstream from U.S. Highway 64, 2.1 mi upstream from mouth, and 3.2 mi southwest of Brevard.

DRAINAGE AREA.--11.7 mi².

PERIOD OF RECORD.--October 1944 to September 1955, November 1986 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,230 ft above NGVD of 1929, from topographic map. Prior to Oct. 2, 1946, at site 0.9 mi downstream at different datum. October 2, 1946, to Jan. 9, 1947, at site 0.8 mi downstream of present gage at different datum. Jan. 10, 1947, to Oct. 3, 1951, at present site at different datum. Oct. 3, 1951, to Sept. 30, 1955, at site 40 ft downstream at different datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 600 ft³/s on basis of slope-area measurement of peak flow. City of Brevard diverted about 1.8 ft³/s from Catheys Creek for municipal water supply. Minimum discharge for period of record also occurred Sept. 11, 12, 2002. Minimum discharge for current water year also occurred Aug. 19, 20.

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Sep 8 | 0145 | 1,770 | 6.12 | Sep 17 | 0200 | 1,260 | 5.29 |

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 | 31 | 27 | 46 | 41 | 29 | 35 | 29 | 30 | 25 | 37 | 34 | 29 |
| 2 | 30 | 26 | 43 | 40 | 35 | 35 | 27 | 41 | 24 | 32 | 34 | 44 |
| 3 | 29 | 26 | 42 | 39 | 44 | 35 | 26 | 35 | 23 | 40 | 32 | 33 |
| 4 | 29 | 25 | 49 | 39 | 37 | 34 | 26 | 32 | 26 | 37 | 27 | 29 |
| 5 | 28 | 38 | 48 | 41 | 40 | 33 | 25 | 31 | 23 | 30 | 27 | 26 |
| 6 | 28 | 71 | 45 | 39 | 199 | 37 | 25 | 29 | 23 | 27 | 25 | 27 |
| 7 | 27 | 42 | 43 | 37 | 98 | 34 | 24 | 28 | 22 | 25 | 23 | 283 |
| 8 | 28 | 36 | 42 | 37 | 65 | 33 | 24 | 27 | 22 | 27 | 22 | 746 |
| 9 | 32 | 33 | 41 | 37 | 56 | 33 | 24 | 28 | 22 | 26 | 21 | 168 |
| 10 | 31 | 31 | 126 | 36 | 52 | 32 | 24 | 26 | 22 | 24 | 21 | 101 |
| 11 | 32 | 31 | 84 | 35 | 48 | 31 | 24 | 26 | 21 | 28 | 21 | 80 |
| 12 | 30 | 30 | 65 | 35 | 54 | 31 | 31 | 25 | 21 | 29 | 25 | 68 |
| 13 | 28 | 29 | 60 | 34 | 49 | 30 | 95 | 49 | 23 | 29 | 22 | 60 |
| 14 | 28 | 28 | 63 | 34 | 47 | 30 | 50 | 38 | 23 | 25 | 20 | 54 |
| 15 | 27 | 27 | 59 | 33 | 48 | 32 | 40 | 32 | 33 | 23 | 20 | 50 |
| 16 | 26 | 27 | 56 | 33 | 45 | 32 | 37 | 31 | 30 | 22 | 19 | 98 |
| 17 | 26 | 27 | 62 | 33 | 44 | 30 | 34 | 33 | 23 | 22 | 19 | 479 |
| 18 | 25 | 31 | 56 | 37 | 42 | 30 | 33 | 38 | 22 | 23 | 19 | 173 |
| 19 | 25 | 246 | 54 | 33 | 41 | 29 | 32 | 33 | 21 | 21 | 18 | 120 |
| 20 | 25 | 80 | 51 | 32 | 40 | 29 | 31 | 39 | 20 | 20 | 18 | 100 |
| 21 | 25 | 62 | 49 | 32 | 40 | 30 | 30 | 35 | 24 | 20 | 20 | 88 |
| 22 | 24 | 54 | 48 | 31 | 38 | 28 | 29 | 32 | 40 | 20 | 18 | 80 |
| 23 | 24 | 50 | 47 | 31 | 37 | 27 | 29 | 33 | 25 | 19 | 29 | 73 |
| 24 | 23 | 54 | 52 | 31 | 37 | 27 | 28 | 31 | 24 | 22 | 28 | 68 |
| 25 | 23 | 48 | 47 | 33 | 36 | 27 | 28 | 29 | 28 | 21 | 24 | 65 |
| 26 | 45 | 45 | 45 | 33 | 36 | 26 | 39 | 28 | 28 | 22 | 21 | 61 |
| 27 | 49 | 44 | 44 | 33 | 36 | 26 | 32 | 26 | 25 | 41 | 31 | 93 |
| 28 | 33 | 62 | 43 | 32 | 36 | 26 | 29 | 26 | 24 | 25 | 29 | 174 |
| 29 | 30 | 53 | 42 | 30 | 35 | 25 | 28 | 25 | 27 | 30 | 26 | 89 |
| 30 | 28 | 49 | 45 | 30 | --- | 29 | 29 | 28 | 36 | 55 | 37 | 77 |
| 31 | 27 | --- | 41 | 30 | --- | 33 | --- | 29 | --- | 39 | 36 | --- |
| TOTAL | 896 | 1,432 | 1,638 | 1,071 | 1,444 | 949 | 962 | 973 | 750 | 861 | 766 | 3,636 |
| MEAN | 28.9 | 47.7 | 52.8 | 34.5 | 49.8 | 30.6 | 32.1 | 31.4 | 25.0 | 27.8 | 24.7 | 121 |
| MAX | 49 | 246 | 126 | 41 | 199 | 37 | 95 | 49 | 40 | 55 | 37 | 746 |
| MIN | 23 | 25 | 41 | 30 | 29 | 25 | 24 | 25 | 20 | 19 | 18 | 26 |
| CFSM | 2.47 | 4.08 | 4.52 | 2.95 | 4.26 | 2.62 | 2.74 | 2.68 | 2.14 | 2.37 | 2.11 | 10.4 |
| IN. | 2.85 | 4.55 | 5.21 | 3.41 | 4.59 | 3.02 | 3.06 | 3.09 | 2.38 | 2.74 | 2.44 | 11.56 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, @ BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 23.6 | 30.0 | 34.6 | 42.3 | 45.9 | 52.0 | 47.4 | 38.2 | 32.4 | 28.8 | 28.0 | 27.9 |
| MAX | 70.0 | 77.9 | 63.3 | 86.3 | 90.1 | 110 | 71.4 | 58.9 | 78.2 | 94.9 | 91.2 | 121 |
| (WY) | (1996) | (1949) | (1993) | (1998) | (1998) | (1952) | (1998) | (2003) | (1989) | (1949) | (1994) | (2004) |
| MIN | 7.30 | 8.69 | 13.4 | 14.5 | 24.2 | 20.7 | 27.2 | 17.2 | 11.6 | 10.9 | 9.02 | 8.21 |
| (WY) | (1955) | (1955) | (1999) | (1955) | (2002) | (1988) | (1988) | (1988) | (1988) | (1988) | (2002) | (1954) |

03440000 CATHEYS CREEK NEAR BREVARD, NC—Continued

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 1945 - 2004 [@] | |
|--------------------------|------------------------|--------|---------------------|--------|--------------------------------------|--------------|
| ANNUAL TOTAL | 16,009 | | 15,378 | | 35.8 | |
| ANNUAL MEAN | 43.9 | | 42.0 | | 18.3 | |
| HIGHEST ANNUAL MEAN | | | | | 59.7 | 1949 |
| LOWEST ANNUAL MEAN | | | | | 18.3 | 1988 |
| HIGHEST DAILY MEAN | 246 | Nov 19 | 746 | Sep 8 | 814 | Aug 17, 1994 |
| LOWEST DAILY MEAN | 21 | Feb 9 | 18 | Aug 19 | 4.7 | Sep 11, 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 22 | Feb 7 | 19 | Aug 16 | 5.3 | Sep 7, 2002 |
| MAXIMUM PEAK FLOW | | | 1,770 | Sep 8 | 2,410* | Aug 17, 1994 |
| MAXIMUM PEAK STAGE | | | 6.12 | Sep 8 | 7.28 | Aug 17, 1994 |
| INSTANTANEOUS LOW FLOW | | | 15* | Aug 18 | 1.0* | Sep 10, 2002 |
| ANNUAL RUNOFF (CFSM) | 3.75 | | 3.59 | | 3.06 | |
| ANNUAL RUNOFF (INCHES) | 50.90 | | 48.89 | | 41.59 | |
| 10 PERCENT EXCEEDS | 60 | | 60 | | 62 | |
| 50 PERCENT EXCEEDS | 41 | | 31 | | 29 | |
| 90 PERCENT EXCEEDS | 25 | | 23 | | 13 | |

[@] See PERIOD OF RECORD.

* See REMARKS.

