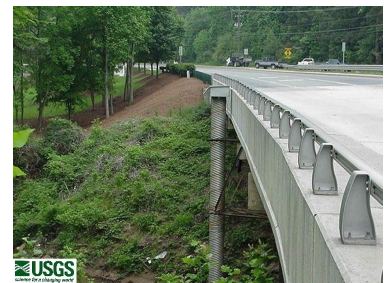
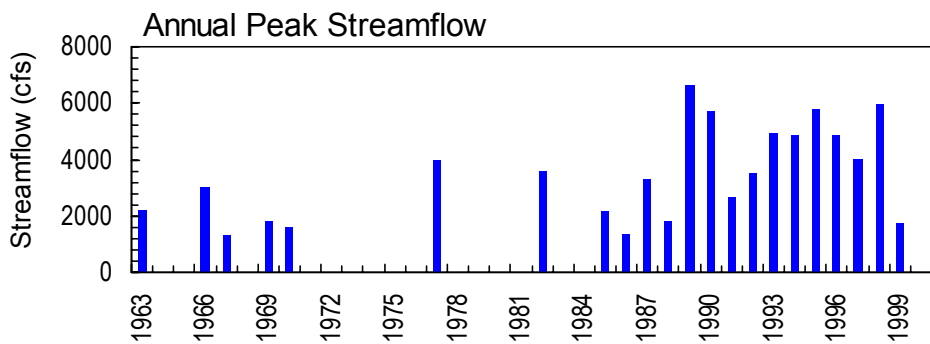
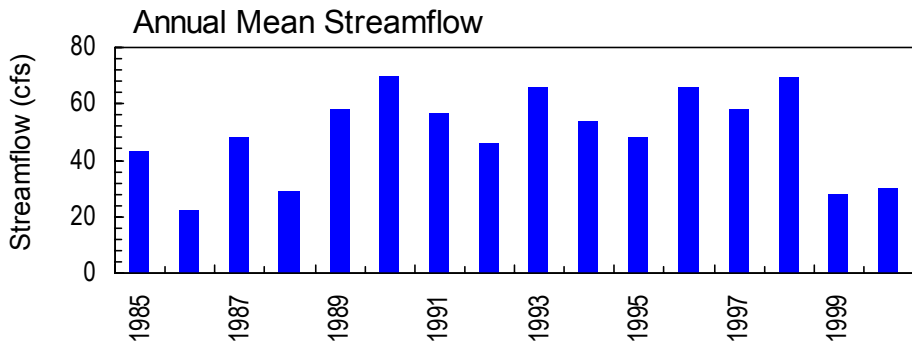
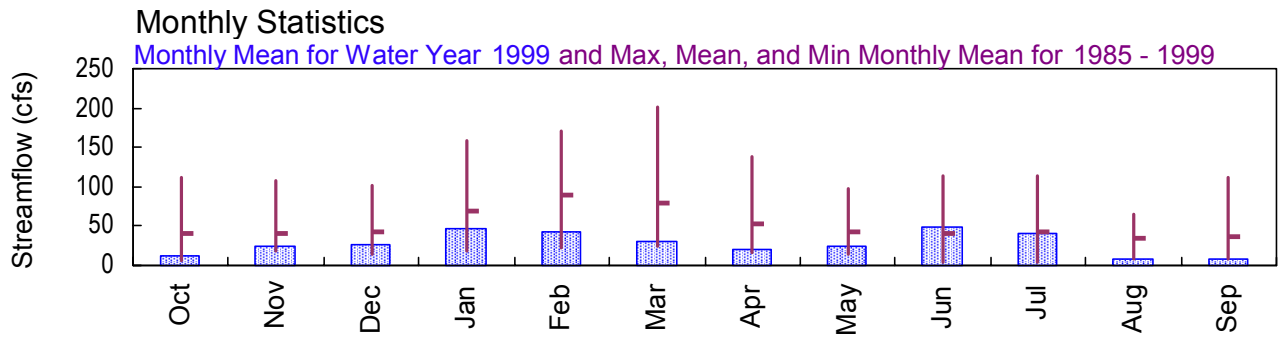
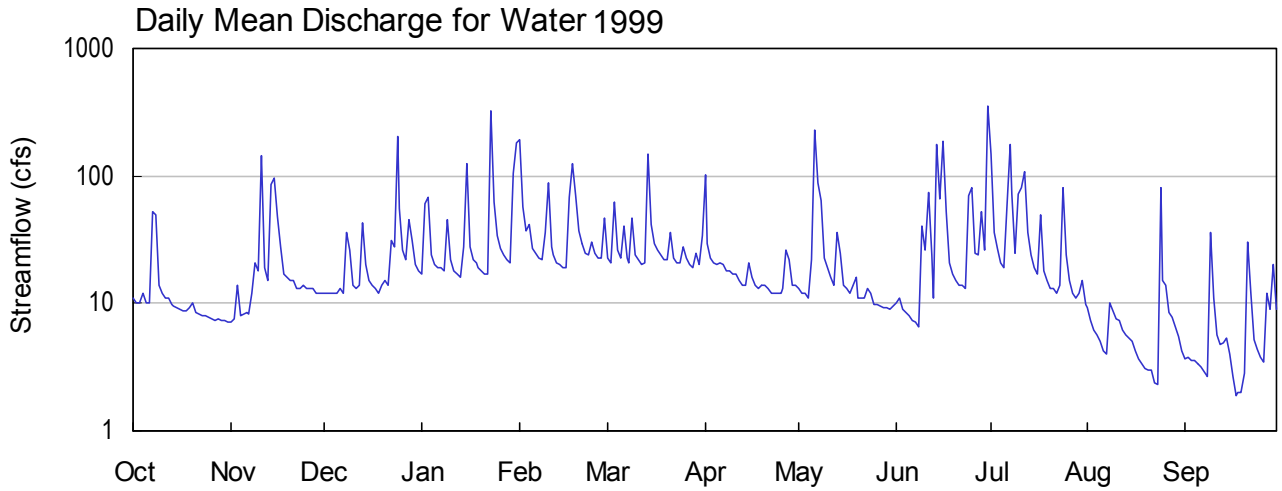


APALACHICOLA RIVER BASIN  
 SOPE CREEK NEAR MARIETTA, GA.

02335870

Latitude: 33° 57' 14" Longitude: 84° 26' 36" Hydrologic Unit Code: 03130001 Cobb County  
 Drainage Area: 29.20 mi<sup>2</sup> Datum: 881.3 feet Period of Record: 1985 - 1999



02335870 - Sope Creek near Marietta, GA

**APALACHICOLA RIVER BASIN  
1999 Water Year**

**02335870 SOPE CREEK NEAR MARIETTA, GA  
(National Water-Quality Assessment station)**

**LOCATION.**--Lat 33°57'14", long 84°26'36", Cobb County, Hydrologic Unit 03130001, on downstream side of bridge on Lower Roswell Road (South Roswell Road), 0.3 miles downstream from Bishop Creek, 6.1 miles east of Marietta, and 2.6 miles upstream from mouth.

**DRAINAGE AREA.**--29.2 mi<sup>2</sup>, approximately.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**--October 1984 to current year. Occasional low-flow measurements, water years 1944, 1951, 1953-55, 1957, 1961.

**REVISED RECORDS.**--WDR GA-89-1: 1985(P), 1986(M), 1987 (P, daily discharge, and monthly runoff), 1988(P).

**GAGE.**--Water-stage recorder. Datum of gage is 881.37 feet above sea level (levels by U.S. Army Corps of Engineers).

**REMARKS.**--Records good, except those for periods of estimated daily discharge, which are fair.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

| DATE    | TIME | DISCHARGE (ft <sup>3</sup> /s) | GAGE HEIGHT (ft) |
|---------|------|--------------------------------|------------------|
| Jan. 23 | 1015 | 1,180                          | 8.19             |
| Jun. 14 | 1930 | 1,040                          | 7.75             |
| Jun. 30 | 2200 | 1,770*                         | 9.59*            |
| Jul. 7  | 2000 | 1,030                          | 7.73             |

STATION NUMBER 02335870 SOPE CREEK (S ROSWELL RD) NR MARIETTA, GA. STREAM SOURCE AGENCY USGS  
 LATITUDE 335714 LONGITUDE 0842636 DRAINAGE AREA 29.20 DATUM 881.37 STATE 13 COUNTY 067  
 PROVISIONAL DATA SUBJECT TO REVISION  
 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG  | SEP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| 1   | 11  | 7.1 | 12  | 17  | 190 | 23  | 101 | 13  | 10  | 148 | 9.2  | 3.7 |
| 2   | 10  | 7.5 | 12  | 60  | 57  | 21  | 29  | 12  | 11  | 36  | e7.4 | 3.8 |
| 3   | 10  | 14  | 12  | 68  | 37  | 63  | 23  | 12  | 9.0 | 27  | e6.2 | 3.6 |
| 4   | 12  | 8.1 | 12  | 24  | 42  | 26  | 21  | 11  | 8.4 | 21  | e5.6 | 3.6 |
| 5   | 10  | 8.3 | 12  | 20  | 27  | 23  | 20  | 22  | 8.0 | 19  | e5.0 | 3.4 |
| 6   | 10  | 8.5 | 13  | 19  | 25  | 41  | 21  | 227 | 7.4 | 59  | e4.3 | 3.2 |
| 7   | 52  | 8.3 | 12  | 19  | 23  | 23  | 20  | 87  | 7.2 | 179 | e4.0 | 2.9 |
| 8   | 50  | 12  | 36  | 18  | 22  | 21  | 18  | 64  | 6.6 | 72  | 10   | 2.7 |
| 9   | 14  | 21  | 26  | 45  | 36  | 47  | 18  | 23  | 40  | 25  | 8.7  | 36  |
| 10  | 12  | 18  | 14  | 22  | 88  | 24  | 17  | 19  | 26  | 72  | 7.6  | 11  |
| 11  | 11  | 144 | 13  | 18  | 28  | 22  | 17  | 16  | 75  | 82  | 7.4  | 5.7 |
| 12  | 11  | 19  | 14  | 17  | 24  | 20  | 15  | 14  | 24  | 108 | e6.2 | 4.8 |
| 13  | 9.9 | 15  | 43  | 16  | 21  | 21  | 14  | 36  | 11  | 36  | e5.6 | 4.9 |
| 14  | 9.4 | 86  | 20  | 28  | 20  | 147 | 14  | 25  | 178 | 24  | e5.3 | 5.3 |
| 15  | 9.2 | 97  | 15  | 126 | 19  | 42  | 21  | 14  | 66  | 19  | e5.0 | 4.0 |
| 16  | 9.0 | 48  | 14  | 28  | 19  | 29  | 16  | 13  | 187 | 17  | e4.3 | 2.7 |
| 17  | 8.8 | 28  | 13  | 22  | 69  | 26  | 14  | 12  | 53  | 49  | e3.7 | 1.9 |
| 18  | 8.7 | 17  | 12  | 21  | 125 | 24  | 13  | 14  | 21  | 18  | e3.4 | 2.0 |
| 19  | 9.2 | 16  | 14  | 19  | 70  | 22  | 14  | 16  | 17  | 15  | e3.1 | 2.0 |
| 20  | 10  | 15  | 15  | 18  | 37  | 22  | 14  | 11  | 15  | 13  | e3.0 | 2.8 |
| 21  | 8.4 | 15  | 14  | 17  | 29  | 36  | 13  | 11  | 14  | 13  | 3.0  | 30  |
| 22  | 8.2 | 13  | 31  | 17  | 25  | 23  | 12  | 11  | 14  | 12  | 2.4  | 12  |
| 23  | 7.9 | 13  | 28  | 323 | 24  | 21  | 12  | 13  | 13  | 14  | 2.3  | 5.2 |
| 24  | 7.9 | 14  | 205 | 62  | 30  | 21  | 12  | 12  | 71  | 81  | 80   | 4.4 |
| 25  | 7.8 | 13  | 55  | 34  | 25  | 28  | 12  | 9.8 | 80  | 24  | 15   | 3.8 |
| 26  | 7.6 | 13  | 26  | 27  | 23  | 23  | 13  | 9.7 | 25  | 15  | 14   | 3.5 |
| 27  | 7.4 | 13  | 22  | 24  | 23  | 20  | 26  | 9.6 | 24  | 12  | 8.4  | 12  |
| 28  | 7.5 | 12  | 45  | 22  | 47  | 19  | 22  | 9.3 | 52  | 11  | 7.7  | 9.1 |
| 29  | 7.3 | 12  | 31  | 21  | --- | 25  | 14  | 9.3 | 26  | 12  | 6.5  | 20  |
| 30  | 7.3 | 12  | 20  | 106 | --- | 20  | 14  | 9.0 | 357 | 15  | 5.5  | 9.0 |
| 31  | 7.2 | --- | 18  | 180 | --- | 34  | --- | 9.4 | --- | 9.9 | 4.3  | --- |

|       |       |       |      |      |      |      |      |       |        |        |       |       |
|-------|-------|-------|------|------|------|------|------|-------|--------|--------|-------|-------|
| TOTAL | 371.7 | 727.8 | 829  | 1458 | 1205 | 957  | 590  | 774.1 | 1456.6 | 1257.9 | 264.1 | 219.0 |
| MEAN  | 12.0  | 24.3  | 26.7 | 47.0 | 43.0 | 30.9 | 19.7 | 25.0  | 48.6   | 40.6   | 8.52  | 7.30  |
| MAX   | 52    | 144   | 205  | 323  | 190  | 147  | 101  | 227   | 357    | 179    | 80    | 36    |
| MIN   | 7.2   | 7.1   | 12   | 16   | 19   | 19   | 12   | 9.0   | 6.6    | 9.9    | 2.3   | 1.9   |
| CFSM  | .41   | .83   | .92  | 1.61 | 1.47 | 1.06 | .67  | .86   | 1.66   | 1.39   | .29   | .25   |
| IN.   | .47   | .93   | 1.06 | 1.86 | 1.54 | 1.22 | .75  | .99   | 1.86   | 1.60   | .34   | .28   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 41.5 | 40.8 | 42.0 | 69.8 | 88.5 | 80.0 | 52.8 | 42.1 | 41.6 | 41.7 | 34.5 | 36.0 |
| MAX  | 112  | 107  | 101  | 159  | 170  | 201  | 139  | 98.3 | 114  | 113  | 65.1 | 111  |
| (WY) | 1996 | 1993 | 1993 | 1993 | 1995 | 1990 | 1998 | 1991 | 1989 | 1989 | 1985 | 1989 |
| MIN  | 7.07 | 17.8 | 14.6 | 18.5 | 23.2 | 25.1 | 16.0 | 14.3 | 4.65 | 4.89 | 8.52 | 7.30 |
| (WY) | 1988 | 1989 | 1989 | 1986 | 1986 | 1988 | 1986 | 1988 | 1988 | 1986 | 1999 | 1999 |

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

|                          |  |         |        |         |  |       |        |  |       |  |  |             |
|--------------------------|--|---------|--------|---------|--|-------|--------|--|-------|--|--|-------------|
| ANNUAL TOTAL             |  | 22477.1 |        | 10110.2 |  |       |        |  |       |  |  |             |
| ANNUAL MEAN              |  | 61.6    |        | 27.7    |  |       |        |  | 50.8  |  |  |             |
| HIGHEST ANNUAL MEAN      |  |         |        |         |  |       |        |  | 70.5  |  |  | 1990        |
| LOWEST ANNUAL MEAN       |  |         |        |         |  |       |        |  | 21.8  |  |  | 1986        |
| HIGHEST DAILY MEAN       |  | 2210    | Mar 8  |         |  | 357   | Jun 30 |  | 2530  |  |  | Feb 16 1995 |
| LOWEST DAILY MEAN        |  | 7.1     | Nov 1  |         |  | 1.9   | Sep 17 |  | .79   |  |  | Jul 20 1988 |
| ANNUAL SEVEN-DAY MINIMUM |  | 7.3     | Oct 27 |         |  | 3.0   | Sep 14 |  | 2.0   |  |  | Jul 7 1988  |
| INSTANTANEOUS PEAK FLOW  |  |         |        |         |  | 1770  | Jun 30 |  | 6630  |  |  | Sep 30 1989 |
| INSTANTANEOUS PEAK STAGE |  |         |        |         |  | 9.59  | Jun 30 |  | 16.22 |  |  | Sep 30 1989 |
| INSTANTANEOUS LOW FLOW   |  |         |        |         |  | 1.7   | Sep 17 |  | .61   |  |  | Jul 21 1988 |
| ANNUAL RUNOFF (CFSM)     |  | 2.11    |        |         |  | .95   |        |  | 1.74  |  |  |             |
| ANNUAL RUNOFF (INCHES)   |  | 28.64   |        |         |  | 12.88 |        |  | 23.62 |  |  |             |
| 10 PERCENT EXCEEDS       |  | 110     |        |         |  | 61    |        |  | 90    |  |  |             |
| 50 PERCENT EXCEEDS       |  | 29      |        |         |  | 15    |        |  | 25    |  |  |             |
| 90 PERCENT EXCEEDS       |  | 9.9     |        |         |  | 5.6   |        |  | 10    |  |  |             |

STATISTICS COMPUTED BY: gabailey

DATE: 02/24/2000 AT: 13:21:15

e Estimated