

**ST MARYS RIVER BASIN  
1999 Water Year**

**02231000 ST MARYS RIVER NEAR MACCLENNY, FL**

**LOCATION.**--Lat 30°21'31", long 82°04'54", Baker County, FL-Charlton County, GA, Hydrologic Unit 03070204, on right bank 200 feet downstream from site of former Stokes Bridge, 1 mile downstream from confluence of North and South Prongs, 6 miles northeast of Macclenny, and 100 miles upstream from mouth.

**DRAINAGE AREA.**--700 mi<sup>2</sup>, approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

**PERIOD OF RECORD.**--October 1926 to current year.

**REVISED RECORDS.**--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 40.00 feet above sea level (levels by Mees and Mees). Prior to Feb. 21, 1939, non-recording gage and Feb. 21, 1939, to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 feet upstream at same datum.

**REMARKS.**--Records good. Current water year information can be obtained by contacting the USGS, Florida District.

STATION NUMBER 02231000 ST. MARYS RIVER NR MACCLENNY, FLA. STREAM SOURCE AGENCY USGS  
 LATITUDE 302131 LONGITUDE 0820454 DRAINAGE AREA 700.00 DATUM STATE 12 COUNTY 003

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   | 2100 | 224 | 79  | 63  | 411 | 163 | 69  | 34  | 16  | 55  | 38  | 133  |
| 2   | 6080 | 208 | 77  | 61  | 438 | 168 | 78  | 33  | 16  | 52  | 37  | 110  |
| 3   | 6520 | 195 | 75  | 71  | 465 | 158 | 93  | 32  | 15  | 57  | 39  | 92   |
| 4   | 8030 | 184 | 73  | 91  | 494 | 148 | 85  | 31  | 15  | 88  | 39  | 78   |
| 5   | 8400 | 176 | 72  | 96  | 542 | 141 | 73  | 30  | 16  | 91  | 43  | 67   |
| 6   | 7630 | 169 | 71  | 88  | 532 | 134 | 67  | 31  | 16  | 81  | 42  | 62   |
| 7   | 6570 | 161 | 69  | 82  | 484 | 128 | 62  | 31  | 16  | 75  | 51  | 58   |
| 8   | 5530 | 154 | 68  | 78  | 441 | 123 | 62  | 31  | 16  | 72  | 78  | 58   |
| 9   | 4610 | 146 | 66  | 76  | 407 | 117 | 57  | 30  | 15  | 70  | 81  | 57   |
| 10  | 3870 | 139 | 64  | 77  | 380 | 112 | 53  | 28  | 21  | 88  | 118 | 54   |
| 11  | 3250 | 133 | 63  | 79  | 360 | 108 | 50  | 27  | 37  | 115 | 151 | 52   |
| 12  | 2670 | 126 | 63  | 81  | 361 | 104 | 46  | 28  | 27  | 133 | 136 | 48   |
| 13  | 2210 | 121 | 64  | 79  | 352 | 100 | 43  | 27  | 25  | 149 | 123 | 46   |
| 14  | 1890 | 117 | 64  | 76  | 333 | 99  | 42  | 26  | 28  | 205 | 105 | 43   |
| 15  | 1610 | 113 | 64  | 74  | 309 | 105 | 39  | 25  | 25  | 143 | 110 | 40   |
| 16  | 1350 | 110 | 63  | 72  | 288 | 116 | 38  | 24  | 25  | 112 | 122 | 38   |
| 17  | 1120 | 107 | 61  | 72  | 270 | 114 | 39  | 23  | 26  | 121 | 132 | 35   |
| 18  | 948  | 104 | 59  | 71  | 256 | 108 | 38  | 22  | 31  | 103 | 129 | 39   |
| 19  | 815  | 101 | 58  | 73  | 243 | 101 | 38  | 22  | 32  | 94  | 110 | 53   |
| 20  | 711  | 98  | 57  | 82  | 235 | 96  | 37  | 21  | 28  | 90  | 90  | 94   |
| 21  | 626  | 95  | 57  | 84  | 225 | 92  | 36  | 21  | 24  | 84  | 78  | 174  |
| 22  | 556  | 93  | 56  | 81  | 213 | 89  | 35  | 21  | 23  | 77  | 85  | 166  |
| 23  | 496  | 92  | 55  | 84  | 202 | 86  | 33  | 20  | 21  | 71  | 192 | 117  |
| 24  | 445  | 94  | 54  | 363 | 191 | 82  | 32  | 18  | 20  | 69  | 271 | 85   |
| 25  | 402  | 95  | 54  | 861 | 182 | 78  | 31  | 18  | 27  | 72  | 236 | 68   |
| 26  | 366  | 94  | 53  | 777 | 173 | 77  | 31  | 17  | 34  | 70  | 248 | 73   |
| 27  | 333  | 91  | 54  | 664 | 165 | 77  | 30  | 17  | 41  | 62  | 251 | 487  |
| 28  | 307  | 87  | 57  | 582 | 161 | 76  | 31  | 18  | 44  | 55  | 260 | 1170 |
| 29  | 281  | 84  | 61  | 516 | --- | 73  | 33  | 18  | 44  | 49  | 242 | 1210 |
| 30  | 260  | 81  | 63  | 465 | --- | 71  | 35  | 17  | 44  | 45  | 198 | 1040 |
| 31  | 241  | --- | 65  | 427 | --- | 69  | --- | 17  | --- | 41  | 162 | ---  |

|       |       |      |      |      |      |      |      |      |      |      |      |      |
|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| TOTAL | 80227 | 3792 | 1959 | 6446 | 9113 | 3313 | 1436 | 758  | 768  | 2689 | 3997 | 5847 |
| MEAN  | 2588  | 126  | 63.2 | 208  | 325  | 107  | 47.9 | 24.5 | 25.6 | 86.7 | 129  | 195  |
| MAX   | 8400  | 224  | 79   | 861  | 542  | 168  | 93   | 34   | 44   | 205  | 271  | 1210 |
| MIN   | 241   | 81   | 53   | 61   | 161  | 69   | 30   | 17   | 15   | 41   | 37   | 35   |
| MED   | 1350  | 112  | 63   | 81   | 321  | 104  | 39   | 24   | 25   | 77   | 118  | 68   |
| CFSM  | 3.70  | .18  | .09  | .30  | .46  | .15  | .07  | .03  | .04  | .12  | .18  | .28  |
| IN.   | 4.26  | .20  | .10  | .34  | .48  | .18  | .08  | .04  | .04  | .14  | .21  | .31  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1999, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 829  | 277  | 380  | 626  | 884  | 968  | 766  | 319  | 356  | 593  | 929  | 1019 |
| MAX  | 6240 | 4155 | 2470 | 2404 | 5940 | 4928 | 6564 | 3303 | 2642 | 2183 | 3296 | 6340 |
| (WY) | 1948 | 1948 | 1948 | 1942 | 1998 | 1959 | 1973 | 1964 | 1957 | 1928 | 1945 | 1964 |
| MIN  | 22.7 | 15.9 | 18.0 | 21.7 | 20.2 | 44.7 | 25.7 | 20.4 | 18.8 | 31.3 | 24.9 | 21.4 |
| (WY) | 1932 | 1932 | 1932 | 1932 | 1934 | 1932 | 1935 | 1932 | 1935 | 1954 | 1954 | 1990 |

SUMMARY STATISTICS                      FOR 1998 CALENDAR YEAR                      FOR 1999 WATER YEAR                      WATER YEARS 1927 - 1999

|                          |  |        |        |        |       |       |  |  |  |       |        |      |
|--------------------------|--|--------|--------|--------|-------|-------|--|--|--|-------|--------|------|
| ANNUAL TOTAL             |  | 424072 |        | 120345 |       |       |  |  |  | 661   |        |      |
| ANNUAL MEAN              |  | 1162   |        | 330    |       |       |  |  |  | 2285  |        | 1948 |
| HIGHEST ANNUAL MEAN      |  |        |        |        |       |       |  |  |  | 90.1  |        | 1955 |
| LOWEST ANNUAL MEAN       |  |        |        |        |       |       |  |  |  |       |        |      |
| HIGHEST DAILY MEAN       |  | 14100  | Feb 19 |        | 8400  | Oct 5 |  |  |  | 27600 | Sep 25 | 1947 |
| LOWEST DAILY MEAN        |  | 20     | Jul 12 |        | 15    | Jun 3 |  |  |  | 12    | May 22 | 1932 |
| ANNUAL SEVEN-DAY MINIMUM |  | 23     | Jul 7  |        | 16    | Jun 3 |  |  |  | 15    | May 31 | 1927 |
| INSTANTANEOUS PEAK FLOW  |  |        |        |        | 8790  | Oct 4 |  |  |  | 28100 | Sep 25 | 1947 |
| INSTANTANEOUS PEAK STAGE |  |        |        |        | 17.18 | Oct 4 |  |  |  | 23.25 | Sep 13 | 1964 |
| INSTANTANEOUS LOW FLOW   |  |        |        |        | 14    | Jun 9 |  |  |  | 12    | May 22 | 1932 |
| ANNUAL RUNOFF (CFSM)     |  | 1.66   |        | .47    |       |       |  |  |  | .94   |        |      |
| ANNUAL RUNOFF (INCHES)   |  | 22.54  |        | 6.40   |       |       |  |  |  | 12.83 |        |      |
| 10 PERCENT EXCEEDS       |  | 3410   |        | 473    |       |       |  |  |  | 1640  |        |      |
| 50 PERCENT EXCEEDS       |  | 160    |        | 79     |       |       |  |  |  | 230   |        |      |
| 90 PERCENT EXCEEDS       |  | 31     |        | 27     |       |       |  |  |  | 38    |        |      |

STATISTICS COMPUTED BY: savarino

DATE: 03/03/2000 AT: 08:36:57