



APALACHICOLA RIVER BASIN

2002 Water Year

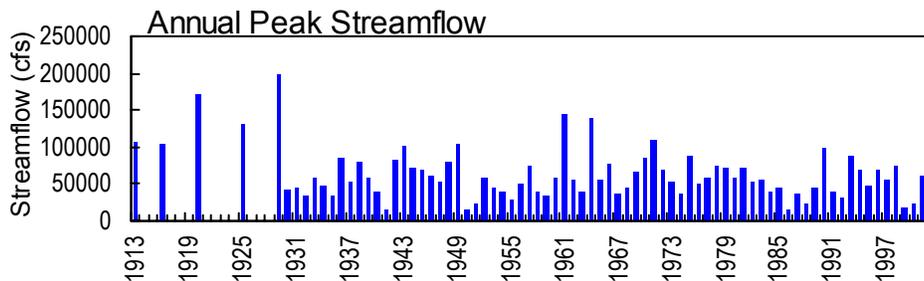
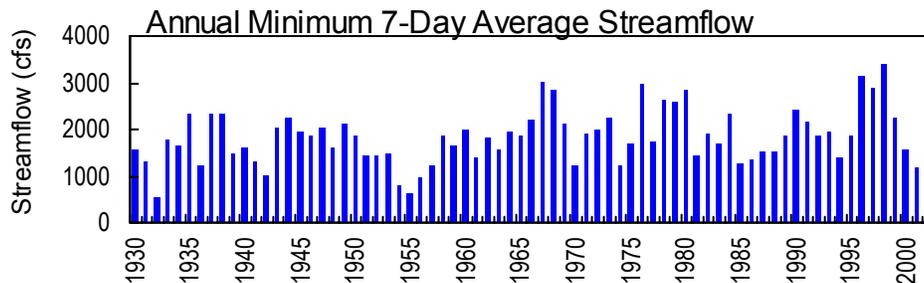
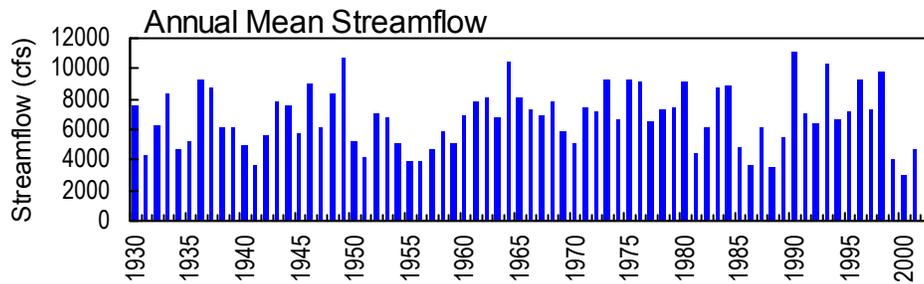
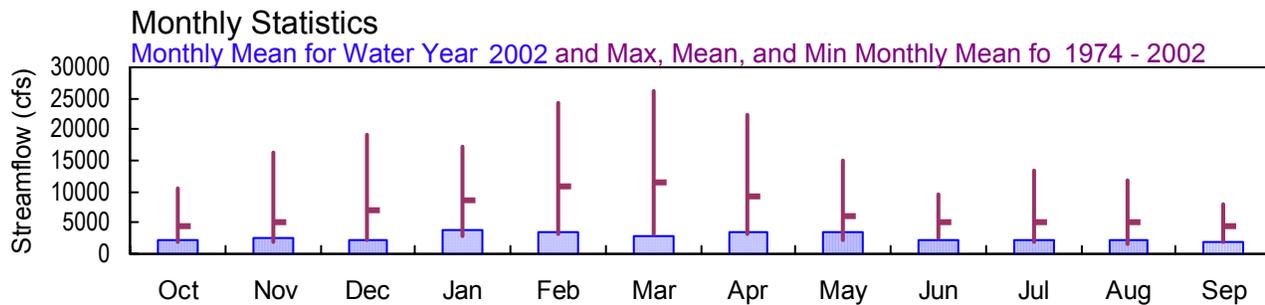
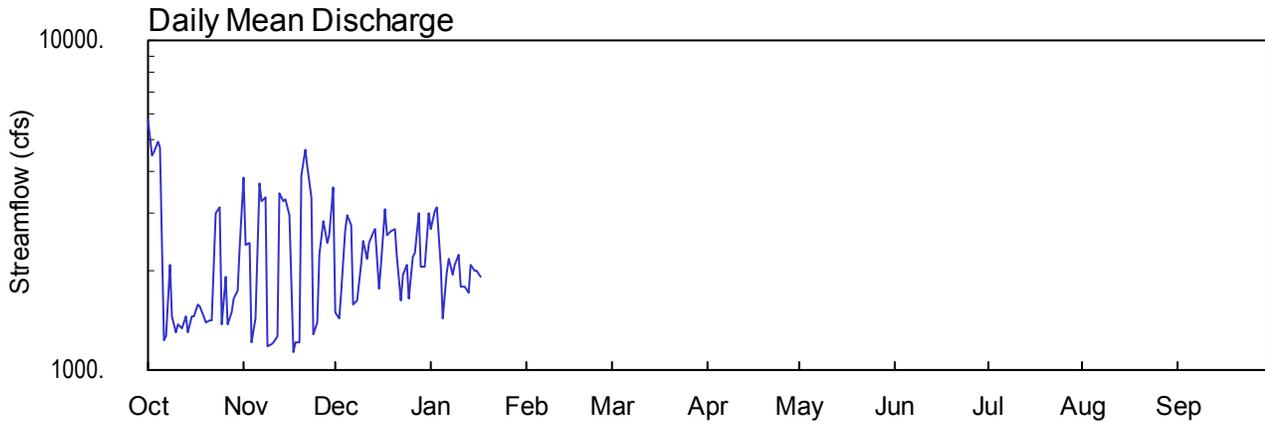
02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA

Latitude: 32° 27' 45" Longitude: 84° 59' 52" Hydrologic Unit Code: 03130003

Muscogee County

Drainage Area: 4,670. mi²

Datum: 183.14 feet



APALACHICOLA RIVER BASIN
2002 Water Year

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA

LOCATION.—Lat 32°27'45", long 84°59'52" referenced to North American Datum (NAD) of 1927, Muscogee County, GA-Russell County, AL, Hydrologic Unit 03130003, on left bank at downstream side of Central of Georgia railway bridge at Columbus, 0.5 miles downstream from Eagle and Phenix Dam, 1.2 miles downstream from City Mills Dam, 2.6 miles downstream from North Highlands Dam, 3.3 miles downstream from Oliver Dam, 17.5 miles downstream from Bartletts Ferry Dam, and at mile 159.9.

DRAINAGE AREA.—4,670 mi², approximately.

COOPERATION.—U.S. Army Corps of Engineers, Mobile District.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.—WSP 1082: 1943(M). WDR GA-90-1: 1967(M), 1969(M), 1971-72(M). See also period of record.

GAGE.—Phone telemetry with a water-stage recorder. Datum of gage is 183.14 feet above National Geodetic Vertical Datum (NGVD) of 1929. From December 1-31, 1912, a non-recording gage was located at a site 800 feet upstream at datum 2.0 feet higher, and from August 23, 1929, to September 30, 1975, a water-stage recorder at present site, at datum 2.0 feet higher. From October 1, 1963, to September 30, 1966, a water-stage recorder was located at Walter F. George Reservoir, and since October 1, 1966, a water-stage recorder was located at the Alabama State Docks facility and used as auxiliary gage for this station.

REMARKS.—Records poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1929.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum discharge known since at least 1827, 198,000 ft³/s, March 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 feet, March 16, 1929, datum in use prior to 1975.

**APALACHICOLA RIVER BASIN
2002 Water Year**

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—August 1929 to current year.

GAGE.—Phone telemetry with a water-stage recorder. Datum of gage is 183.14 feet above National Geodetic Vertical Datum (NGVD) of 1929. From December 1-31, 1912, a non-recording gage was located at a site 800 feet upstream at datum 2.0 feet higher, and from August 23, 1929, to September 30, 1975, a water-stage recorder at present site, at datum 2.0 feet higher. From October 1, 1963, to September 30, 1966, a water-stage recorder was located at Walter F. George Reservoir, and since October 1, 1966, a water-stage recorder was located at the Alabama State Docks facility and used as auxiliary gage for this station.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 13.71 feet, May 5; minimum gage-height recorded, 1.44 feet, September 11.

STATION NUMBER 02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA SOURCE AGENCY USGS STATE 13 COUNTY 215
 LATITUDE 322745 LONGITUDE 0845952 NAD27 DRAINAGE AREA 4670.00* CONTRIBUTING DRAINAGE AREA DATUM 183.14 NGVD29
 Date Processed: 2003-03-11 11:12 By acday

APPROVED

DD #3

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 5730 | e3850 | 1490 | 2680 | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 4460 | 2410 | 1440 | e3020 | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 4620 | 2430 | 1710 | 3130 | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 4930 | 1210 | e2650 | 2050 | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 4750 | 1430 | e2960 | 1440 | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 1230 | e3680 | 2750 | 1960 | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 1260 | e3230 | 1580 | 2170 | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 2090 | e3330 | 1620 | 1940 | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 1460 | 1180 | 2080 | 2100 | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 1310 | 1200 | 2480 | 2240 | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 1380 | 1220 | 2180 | 1790 | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 1340 | 1260 | 2430 | 1780 | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 1460 | e3460 | 2600 | 1710 | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 1300 | e3250 | 2670 | 2090 | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 1450 | e3300 | 1760 | 2000 | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | 1460 | e2960 | 2100 | 2000 | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 1570 | 1140 | e3080 | 1920 | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | 1550 | 1210 | e2560 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 1460 | 1220 | 2650 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 1400 | e3920 | 2680 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 1420 | e4670 | 2210 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 1410 | e4100 | 1620 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | e3010 | 3330 | 1940 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | e3120 | 1280 | 2090 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | 1370 | 1400 | 1640 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | 1930 | 2250 | 2220 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | 1380 | 2820 | 2270 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | 1490 | 2430 | e3010 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 1640 | 2560 | 2060 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 1740 | 3560 | 2060 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 2330 | --- | 3010 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TOTAL | 67050 | 75290 | 69600 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MEAN | 2163 | 2510 | 2245 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MAX | 5730 | 4670 | 3080 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MIN | 1230 | 1140 | 1440 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CFSM | 0.46 | 0.54 | 0.48 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IN. | 0.53 | 0.60 | 0.55 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

| | 1990 | 1993 | 1993 | 1993 | 1990 | 1990 | 1991 | 1991 | 1989 | 1994 | 1984 | 1994 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| MEAN | 4429 | 5212 | 6989 | 8473 | 10980 | 11640 | 9157 | 6015 | 5157 | 5201 | 5238 | 4475 |
| MAX | 10480 | 16250 | 19050 | 17300 | 24380 | 26140 | 22270 | 15150 | 9611 | 13470 | 11660 | 8065 |
| (WY) | 1990 | 1993 | 1993 | 1993 | 1990 | 1990 | 1979 | 1991 | 1989 | 1994 | 1984 | 1994 |
| MIN | 2024 | 1964 | 2245 | 2756 | 3119 | 3135 | 3196 | 2237 | 2500 | 1894 | 1632 | 1792 |
| (WY) | 2001 | 2000 | 2002 | 2000 | 1989 | 1988 | 1986 | 1985 | 1986 | 1988 | 1986 | 2001 |

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

WATER YEARS 1974 - 2002

| | | |
|--------------------------|---------|--------|
| ANNUAL TOTAL | 1678992 | |
| ANNUAL MEAN | 4600 | 6922 |
| HIGHEST ANNUAL MEAN | | 11050 |
| LOWEST ANNUAL MEAN | | 2935 |
| HIGHEST DAILY MEAN | 42400 | Apr 4 |
| LOWEST DAILY MEAN | 972 | Mar 10 |
| ANNUAL SEVEN-DAY MINIMUM | 1210 | Sep 16 |
| MAXIMUM PEAK FLOW | | 145000 |
| MAXIMUM PEAK STAGE | | 47.80 |
| INSTANTANEOUS LOW FLOW | | 294 |
| ANNUAL RUNOFF (CFSM) | 0.99 | 1.48 |
| ANNUAL RUNOFF (INCHES) | 13.37 | 20.14 |
| 10 PERCENT EXCEEDS | 7130 | 13100 |
| 50 PERCENT EXCEEDS | 3250 | 5340 |
| 90 PERCENT EXCEEDS | 1350 | 1900 |

e Estimated

STATION NUMBER 02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA SOURCE AGENCY USGS STATE 13 COUNTY 215
 LATITUDE 322745 LONGITUDE 0845952 NAD27 DRAINAGE AREA 4670.00* CONTRIBUTING DRAINAGE AREA DATUM 183.14 NGVD29
 Date Processed: 2003-03-11 11:12 By acday

APPROVED

DD #2

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 6.20 | 4.51 | 4.38 | 4.52 | 6.99 | 4.84 | 6.32 | 6.21 | 5.48 | 4.39 | 4.19 | 2.54 |
| 2 | 5.86 | 4.46 | 4.40 | 4.64 | 6.32 | 6.92 | 6.78 | 6.64 | 5.29 | 4.69 | 4.12 | 2.60 |
| 3 | 5.94 | 4.52 | 4.43 | 4.67 | 5.95 | 6.64 | 7.58 | 6.46 | 5.44 | 4.35 | 3.61 | 3.26 |
| 4 | 6.07 | 4.06 | 4.37 | 4.23 | 5.60 | 7.05 | 7.77 | 6.19 | 5.41 | 4.67 | 3.48 | 2.89 |
| 5 | 6.19 | 4.05 | --- | 4.09 | 5.67 | 6.91 | 7.56 | 6.86 | 5.90 | 4.39 | 3.85 | 2.81 |
| 6 | 4.91 | 3.97 | 4.75 | 4.15 | 8.01 | 6.53 | 5.35 | 9.61 | 6.00 | 4.05 | 3.65 | 2.72 |
| 7 | 4.89 | 3.90 | 4.41 | 4.19 | 8.76 | 5.77 | 5.33 | 8.91 | 6.04 | 3.85 | 3.53 | 2.46 |
| 8 | 5.15 | 3.83 | 4.40 | 4.06 | 8.60 | 5.75 | 5.35 | 7.66 | 5.38 | 4.26 | 3.49 | 2.40 |
| 9 | 4.94 | 3.70 | 4.55 | 4.07 | 8.42 | 5.35 | 5.76 | 7.19 | 5.33 | 4.17 | 4.00 | 2.37 |
| 10 | 4.87 | 3.67 | 4.56 | 4.14 | 7.14 | 5.12 | 5.63 | 7.36 | 5.46 | 3.93 | 3.25 | 2.88 |
| 11 | 4.88 | 3.66 | 4.58 | 3.90 | 7.25 | 5.64 | 5.83 | 6.43 | 5.35 | 4.75 | 3.19 | 2.49 |
| 12 | 4.86 | 3.56 | 4.70 | 3.95 | 6.54 | 5.59 | 5.40 | 6.37 | 5.34 | 3.93 | 3.52 | 3.00 |
| 13 | 4.89 | 3.48 | 4.77 | 4.08 | 6.27 | 5.37 | 5.98 | 6.81 | 5.43 | 3.94 | 3.18 | 2.98 |
| 14 | 4.87 | 3.23 | 4.85 | 4.26 | 5.73 | 5.55 | 6.14 | 6.43 | 5.25 | 3.80 | 3.26 | 2.50 |
| 15 | 4.89 | 3.17 | 4.50 | 4.30 | 5.68 | 5.74 | 6.41 | 6.38 | 5.06 | 4.11 | 3.01 | 2.48 |
| 16 | 4.83 | 3.10 | 4.49 | 4.33 | 5.15 | 5.01 | 6.25 | 6.19 | 4.99 | 4.01 | 2.96 | 2.33 |
| 17 | 4.85 | 3.05 | 4.77 | 4.35 | 4.94 | 5.02 | 6.19 | 6.44 | 4.92 | 4.04 | 2.90 | 2.45 |
| 18 | 4.84 | 3.08 | 4.45 | 4.39 | 5.30 | 5.38 | 6.02 | 5.97 | 4.83 | 3.96 | 2.94 | 2.33 |
| 19 | 4.72 | 3.00 | 4.81 | 4.76 | 5.25 | 5.40 | 5.58 | 5.81 | 4.86 | 3.86 | 3.00 | 2.40 |
| 20 | 4.71 | 2.96 | 4.64 | 4.56 | 5.04 | 5.74 | 5.34 | 5.84 | 4.69 | 3.56 | 3.31 | 2.45 |
| 21 | 4.71 | 3.09 | 4.50 | 6.18 | 4.89 | 7.30 | 5.41 | 5.87 | 4.60 | 3.59 | 3.85 | 2.33 |
| 22 | 4.66 | 3.40 | 4.46 | 5.73 | 4.49 | 6.72 | 5.43 | 5.82 | 4.62 | 3.79 | 3.16 | 2.33 |
| 23 | 4.60 | 4.05 | 4.57 | 6.92 | 4.31 | 5.50 | 5.46 | 6.33 | 5.05 | 3.73 | 3.29 | 2.16 |
| 24 | 4.59 | 3.10 | 4.52 | 7.22 | 4.52 | 6.14 | 5.53 | 6.21 | 4.54 | 3.96 | 3.06 | 2.13 |
| 25 | 4.41 | 3.62 | 4.38 | 7.17 | 4.59 | 5.49 | 5.64 | 5.88 | 4.59 | 3.94 | 2.82 | 2.02 |
| 26 | 4.52 | 4.19 | 4.44 | 7.62 | 5.15 | 6.83 | 5.49 | 5.80 | 5.09 | 3.95 | 2.98 | 2.39 |
| 27 | 4.20 | 4.54 | 4.32 | 9.56 | 4.86 | 7.45 | 5.30 | 5.79 | 5.02 | 3.67 | 3.19 | 2.34 |
| 28 | 4.22 | 4.53 | 4.40 | 7.66 | 5.27 | 5.90 | 5.39 | 5.86 | 5.01 | 3.74 | 3.08 | 2.12 |
| 29 | 4.24 | 4.69 | 4.16 | 7.92 | --- | 5.24 | 5.86 | 5.73 | 4.41 | 3.99 | 3.10 | 2.00 |
| 30 | 4.19 | 5.10 | 4.16 | 7.39 | --- | 5.65 | 5.85 | 5.80 | 4.30 | 4.00 | 3.11 | 1.99 |
| 31 | 4.39 | --- | 4.53 | 7.54 | --- | 5.96 | --- | 5.62 | --- | 4.14 | 2.56 | --- |
| MEAN | 4.91 | 3.78 | --- | 5.37 | 5.95 | 5.92 | 5.93 | 6.47 | 5.12 | 4.04 | 3.31 | 2.47 |
| MAX | 6.20 | 5.10 | --- | 9.56 | 8.76 | 7.45 | 7.77 | 9.61 | 6.04 | 4.75 | 4.19 | 3.26 |
| MIN | 4.19 | 2.96 | --- | 3.90 | 4.31 | 4.84 | 5.30 | 5.62 | 4.30 | 3.56 | 2.56 | 1.99 |