



2004 Water Year  
APALACHICOLA RIVER BASIN

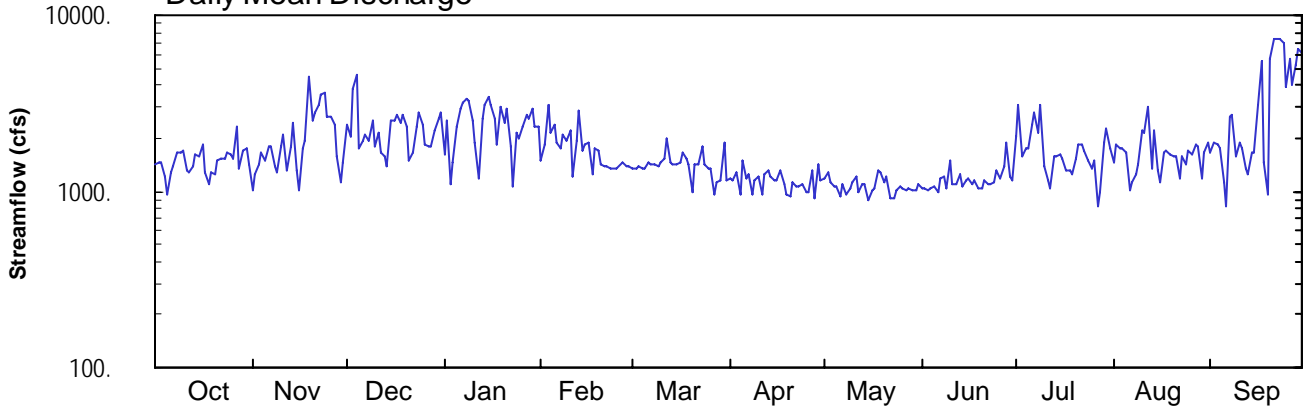
**02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA**

Latitude: 33° 59 ' 50"  
Gwinnett County

Longitude: 084° 12 ' 07"  
Datum: 878.14 feet

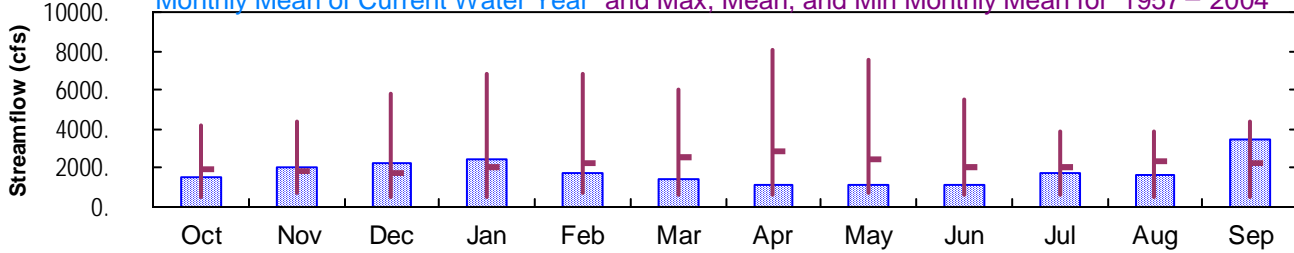
Hydrologic Unit Code: 03130001  
Drainage Area: 1170. mi<sup>2</sup>

Daily Mean Discharge

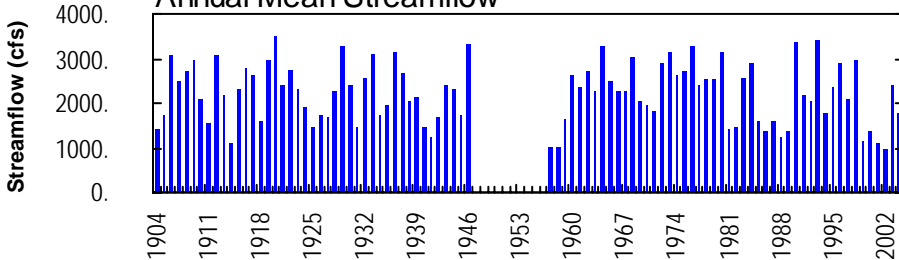


Monthly Statistics

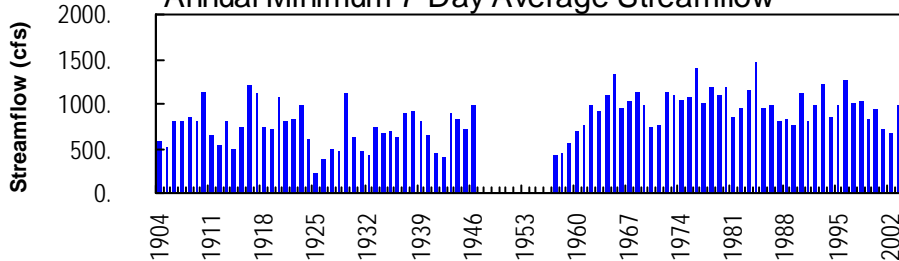
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1957 – 2004



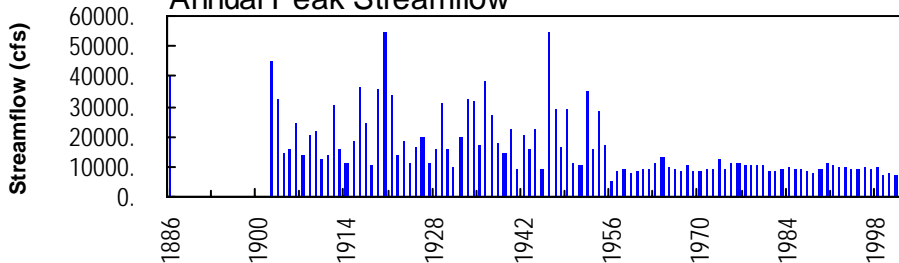
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



02335000 - Chattahoochee River near Norcross, GA

**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA**

**LOCATION.**—Lat 33°59'50", long 84°12'07" referenced to North American Datum (NAD) of 1983, Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on GA 141, 1.5 miles upstream from Johns Creek, 4.5 miles north of Norcross, 6.5 miles downstream from Suwanee Creek, 18.0 miles downstream from Buford Dam, and at mile 330.8.

**DRAINAGE AREA.**—1,170 square miles, approximately.

**COOPERATION.**—U.S. Army Corps of Engineers, Mobile District; Georgia Environmental Protection Division, Georgia Power Corporation.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—October 1902 to September 1946, October 1956 to current year. Monthly discharge only for October to December 1902, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 878.14 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, a non-recording gage was located at a site 500 feet downstream at same datum. From July 14, 1955 to March 11, 1957, a non-recording gage was located at present site and datum.

**REMARKS.**—Records good. Flow regulated by Lake Sidney Lanier since January 1956. Diversion and return flow above station regulated by Gwinnett County. Statistics prior to regulation are available upon request.

**EXTREMES OUTSIDE PERIOD OF RECORD.**—Maximum stage known since at least 1896, is 27.70 feet, January 8, 1946, discharge, 55,000 cfs, from rating extended above 36,000 cfs on the basis of computation of peak flow over Morgan Falls Dam.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—October 1902 to September 1946, October 1956 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 878.14 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, a non-recording gage was located at a site 500 feet downstream at same datum. From July 14, 1955 to March 11, 1957, a non-recording gage was located at present site and datum.

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 11.76 feet, September 17; minimum gage-height recorded, 1.78 feet, June 6.

**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA—continued.**

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—June 29, 2002 to current year.

**GAGE.**—Tipping-bucket raingage.

**REMARKS.**—Records good.

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 335950 LONGITUDE 0841207 NAD83 DRAINAGE AREA 1170.00\* CONTRIBUTING DRAINAGE AREA DATUM 878.14 NGVD29

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	1420	1020	2370	1610	1510	1360	1170	1200	1030	2030	1470	1660
2	1470	1260	2060	2490	1870	1360	1150	1270	1030	3120	1830	1910
3	1470	1410	3770	1100	3060	1380	1270	1130	1010	1570	1730	1840
4	1230	1650	4640	1450	2130	1360	964	1060	1040	1740	1760	1730
5	958	1490	1730	2350	2400	1360	1490	1060	1070	1750	1640	1130
6	1290	1810	1930	2960	1890	1470	1190	926	985	2400	1000	827
7	1380	1800	2090	3150	1770	1430	1250	1100	1190	2810	1120	2660
8	1680	1390	1960	3360	2090	1410	950	956	1210	2160	1250	2710
9	1640	1290	2520	3280	1920	1390	1140	1050	1050	3120	1430	1560
10	1730	1770	1790	2520	2230	1450	1210	1130	1480	1400	2220	1870
11	1320	2080	2160	1910	1200	1540	958	1220	1090	1160	2170	1740
12	1270	1330	1670	1190	1940	2000	1250	998	1100	1030	3020	1350
13	1380	1790	1600	2600	2870	1440	1330	1100	1250	1580	1360	1230
14	1610	2450	1380	3140	1710	1420	1230	1110	1070	1570	2230	1660
15	1560	1320	2530	3450	1840	1420	1160	882	1160	1620	1330	1650
16	1860	1020	2510	3070	1910	1460	1140	1000	1200	1530	1120	3070
17	1290	1760	2720	2590	1240	1640	1300	1040	1090	1320	1660	5510
18	1100	1940	2430	1860	1750	1520	1100	1320	1150	1310	1710	1470
19	1260	4490	2720	3010	1720	1410	949	1270	1030	1250	1630	959
20	1260	2510	2300	2470	1410	988	932	1120	1050	1550	1570	5620
21	1510	2790	1500	2910	1390	1400	1120	1210	1150	1850	1580	7350
22	1530	3090	1660	1780	1370	1440	1060	920	1100	1840	1190	7380
23	1520	3560	2300	1070	1360	1800	1060	908	1100	1680	1580	7410
24	1680	3610	2820	2150	1360	1440	1100	1000	1120	1480	1420	7020
25	1620	2620	2400	2010	1360	1340	999	1060	1300	1340	1720	3870
26	1540	2650	1830	2310	1420	1330	985	1050	1180	1480	1630	5620
27	2350	2410	1790	2750	1460	970	1320	1020	1390	829	1860	3990
28	1360	1580	1800	2590	1400	1120	915	1040	1890	990	1810	5210
29	1710	1140	2230	2980	1370	1170	1440	1000	1220	1910	1180	6420
30	1740	1460	2580	2350	---	1880	1160	1030	1170	2270	1670	6170
31	1440	---	2760	2310	---	1160	---	1090	---	1740	1910	---
TOTAL	46178	60490	70550	74770	50950	43858	34292	33270	34905	53429	50800	102596
MEAN	1490	2016	2276	2412	1757	1415	1143	1073	1164	1724	1639	3420
MAX	2350	4490	4640	3450	3060	2000	1490	1320	1890	3120	3020	7410
MIN	958	1020	1380	1070	1200	970	915	882	985	829	1000	827
CFSM	1.27	1.72	1.95	2.06	1.50	1.21	0.98	0.92	0.99	1.47	1.40	2.92
IN.	1.47	1.92	2.24	2.38	1.62	1.39	1.09	1.06	1.11	1.70	1.62	3.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

	1965	1885	1711	2088	2273	2521	2813	2428	2070	2085	2359	2216
MEAN	1965	1885	1711	2088	2273	2521	2813	2428	2070	2085	2359	2216
MAX	4196	4433	5778	6802	6797	6053	8042	7509	5476	3876	3875	4423
(WY)	1992	1975	1993	1993	1996	1990	1964	1973	2003	1994	1994	1967
MIN	502	698	558	529	709	647	608	696	569	598	501	523
(WY)	1958	1957	1958	1958	1957	1959	1959	1958	1957	1957	1957	1957

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1957 - 2004

ANNUAL TOTAL	935268	656088	
ANNUAL MEAN	2562	1793	2200
HIGHEST ANNUAL MEAN			3431
LOWEST ANNUAL MEAN			971
HIGHEST DAILY MEAN	8010	May 9	7410
LOWEST DAILY MEAN	784	Apr 9	827
ANNUAL SEVEN-DAY MINIMUM	1170	Jan 1	1000
MAXIMUM PEAK FLOW			10700
MAXIMUM PEAK STAGE			11.76
ANNUAL RUNOFF (CFSM)	2.19		1.53
ANNUAL RUNOFF (INCHES)	29.74		20.86
10 PERCENT EXCEEDS	5110		2800
50 PERCENT EXCEEDS	1950		1480
90 PERCENT EXCEEDS	1220		1040

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 LATITUDE 335950 LONGITUDE 0841207 NAD83 DRAINAGE AREA 1170.00\* CONTRIBUTING DRAINAGE AREA DATUM 878.14 NGVD29

Gage height, feet  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.86	2.16	4.31	3.13	2.81	2.78	2.41	2.46	2.16	3.69	3.01	3.22
2	2.94	2.59	3.74	4.44	3.31	2.78	2.38	2.60	2.16	5.17	3.47	3.56
3	2.92	2.84	5.86	2.29	4.96	2.82	2.60	2.33	2.13	3.10	3.32	3.46
4	2.52	3.17	6.70	2.90	3.69	2.78	2.03	2.21	2.18	3.37	3.37	3.32
5	2.03	2.98	3.34	4.26	4.09	2.78	3.00	2.20	2.24	3.38	3.20	2.45
6	2.65	3.47	3.68	5.05	3.37	2.98	2.45	1.96	2.07	4.19	2.24	1.93
7	2.79	3.38	3.93	5.29	3.23	2.91	2.57	2.28	2.46	4.73	2.43	4.58
8	3.24	2.81	3.63	5.52	3.69	2.87	2.00	2.02	2.49	3.88	2.65	4.79
9	3.17	2.64	4.53	5.44	3.39	2.83	2.36	2.19	2.19	5.15	2.91	3.09
10	3.37	3.39	3.50	4.46	3.86	2.94	2.50	2.35	2.97	2.88	3.98	3.51
11	2.69	3.82	4.03	3.54	2.34	3.10	2.02	2.51	2.26	2.50	3.87	3.37
12	2.59	2.69	3.31	2.44	3.43	3.81	2.56	2.10	2.28	2.28	5.11	2.80
13	2.77	3.39	3.19	4.60	4.85	2.90	2.71	2.29	2.56	3.15	2.84	2.62
14	3.10	4.41	2.82	5.26	3.34	2.85	2.52	2.30	2.23	3.11	3.93	3.24
15	3.05	2.71	4.54	5.63	3.51	2.86	2.40	1.88	2.41	3.23	2.78	3.21
16	3.56	2.16	4.50	5.16	3.65	2.91	2.36	2.11	2.46	3.09	2.44	4.73
17	2.65	3.49	4.77	4.59	2.55	3.19	2.66	2.17	2.26	2.77	3.23	7.57
18	2.29	3.64	4.41	3.48	3.47	3.01	2.28	2.67	2.37	2.72	3.31	3.03
19	2.60	6.75	4.76	4.76	3.43	2.83	2.00	2.58	2.15	2.63	3.18	2.17
20	2.60	4.32	4.20	4.14	2.88	2.07	1.97	2.32	2.20	3.08	3.10	7.69
21	2.98	4.85	2.96	4.76	2.84	2.81	2.32	2.49	2.38	3.49	3.13	9.28
22	3.02	4.89	3.19	3.22	2.80	2.89	2.20	1.95	2.28	3.46	2.55	9.30
23	3.00	5.58	4.23	2.12	2.79	3.50	2.22	1.93	2.29	3.24	3.13	9.33
24	3.25	5.62	4.91	3.66	2.79	2.86	2.28	2.11	2.33	3.00	2.90	9.01
25	3.12	4.62	4.34	3.55	2.78	2.71	2.10	2.21	2.66	2.76	3.33	5.84
26	3.10	4.69	3.45	3.98	2.90	2.70	2.07	2.20	2.44	3.00	3.19	7.81
27	4.30	4.37	3.38	4.56	2.96	2.04	2.68	2.14	2.77	1.93	3.49	6.10
28	2.78	3.15	3.39	4.35	2.86	2.32	1.94	2.17	3.65	2.20	3.41	7.31
29	3.37	2.37	3.95	4.84	2.80	2.41	2.90	2.10	2.51	3.57	2.54	8.52
30	3.43	2.92	4.57	3.99	---	3.60	2.40	2.15	2.41	4.10	3.23	8.31
31	2.88	---	4.80	3.98	---	2.39	---	2.26	---	3.32	3.55	---
MEAN	2.96	3.66	4.09	4.17	3.29	2.85	2.36	2.23	2.40	3.30	3.19	5.17
MAX	4.30	6.75	6.70	5.63	4.96	3.81	3.00	2.67	3.65	5.17	5.11	9.33
MIN	2.03	2.16	2.82	2.12	2.34	2.04	1.94	1.88	2.07	1.93	2.24	1.93

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Precipitation, total, inches  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.26	0.00	0.10
2	0.00	0.00	0.00	0.00	0.88	0.13	0.00	0.63	0.00	0.06	0.00	0.04
3	0.00	0.00	0.01	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
5	0.00	0.57	0.00	0.52	0.06	0.00	0.00	0.00	0.00	0.21	0.17	0.00
6	0.01	0.13	0.00	0.00	1.12	0.41	0.00	0.00	0.00	0.02	0.00	0.11
7	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	4.32
8	0.86	0.00	0.00	0.05	0.00	0.00	0.04	0.00	---	0.00	0.00	0.10
9	0.00	0.00	0.00	0.25	0.00	0.03	0.00	0.00	---	0.00	0.00	0.00
10	0.00	0.00	0.07	0.01	0.03	0.00	0.00	0.02	---	0.00	0.00	0.00
11	0.02	0.00	0.00	0.00	0.15	0.00	0.35	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.86	0.00	0.82	0.27	0.00	0.00	2.45	0.00
13	0.01	0.00	0.01	0.00	0.00	0.00	0.67	0.00	1.40	0.00	0.00	0.00
14	0.05	0.00	0.00	0.00	0.41	0.00	0.01	0.00	0.02	0.57	0.00	0.00
15	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	1.01	0.00	0.00	0.01
16	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.03	0.04	0.00	0.00	5.66
17	0.03	0.01	0.00	0.23	0.00	0.00	0.00	0.05	0.00	0.40	0.00	0.14
18	0.00	0.33	0.00	0.16	0.00	0.00	0.00	0.27	0.70	0.01	0.00	0.00
19	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.17	0.00
21	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.56	0.00	0.02	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.40	0.00	0.04	0.00
23	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
24	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.33	0.16	0.04	0.00
25	0.00	0.00	0.00	2.29	0.17	0.00	0.00	0.00	0.40	0.31	0.25	0.00
26	1.89	0.00	0.00	0.02	0.66	0.00	0.80	0.00	0.09	0.40	0.01	0.00
27	0.02	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.93	0.01	0.00	2.77
28	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.44	0.22	0.00	0.01
29	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.14	0.00	0.01	0.09	0.00
30	0.00	0.00	0.23	0.00	---	1.10	0.00	0.00	0.16	0.00	0.00	0.01
31	0.00	---	0.00	0.00	---	0.12	---	0.86	---	0.00	0.01	---
TOTAL	2.90	1.32	0.40	3.53	5.18	2.08	2.69	3.61	---	3.68	3.25	13.27