

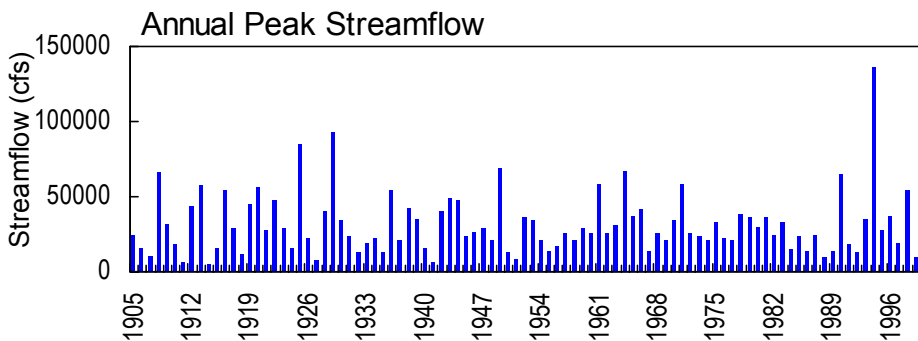
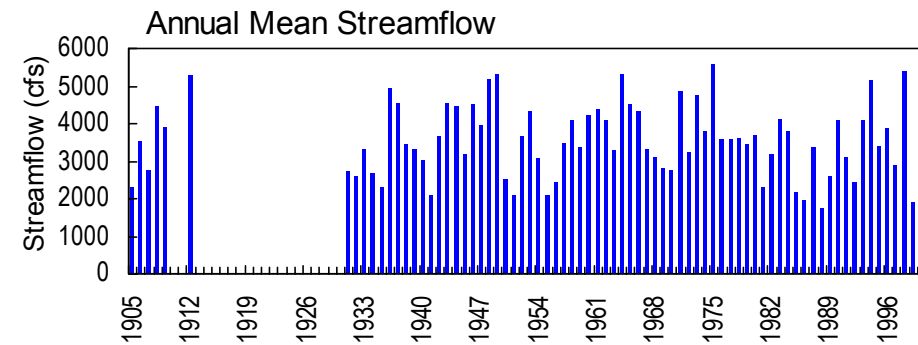
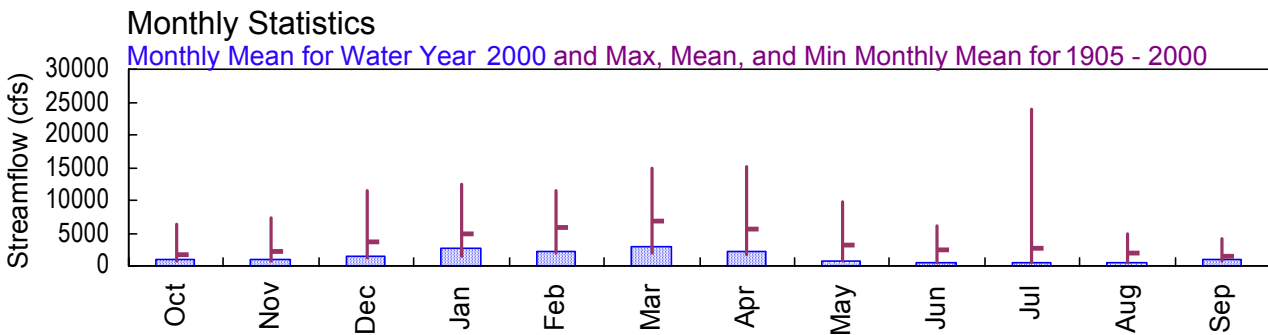
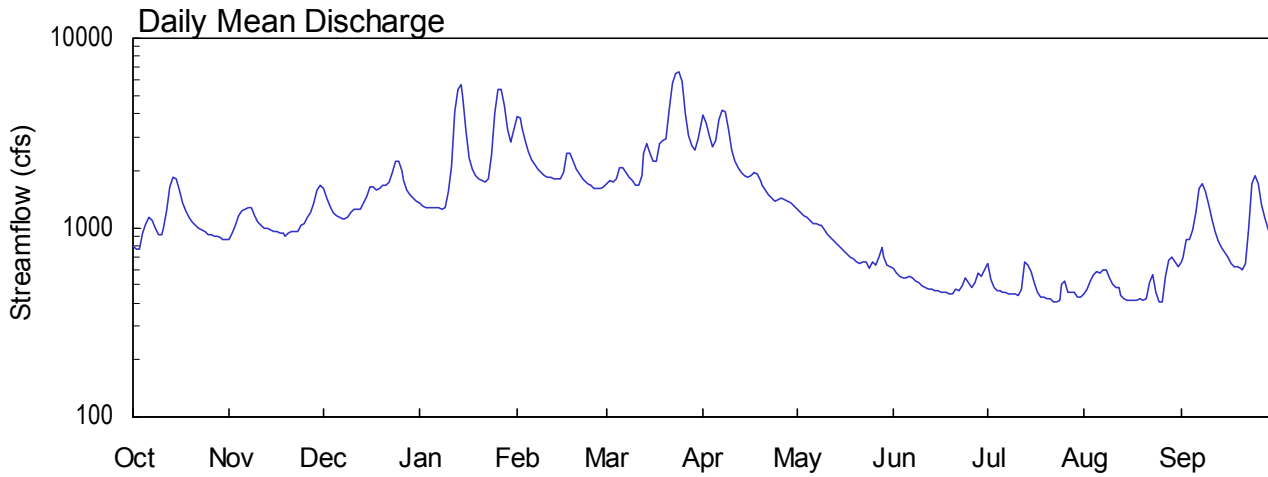


# APALACHICOLA RIVER BASIN

## 2000 Water Year

### 02349500 FLINT RIVER AT MONTEZUMA, GA

Latitude: 32° 17' 53" Longitude: 84° 02' 38" Hydrologic Unit Code: 03130006 Macon County  
Drainage Area: 2900 mi<sup>2</sup> Datum: 255.8 feet Period of Record: 1905 - 2000



02349500 - Flint River at Montezuma, GA

**APALACHICOLA RIVER BASIN  
2000 Water Year**

**02349500 FLINT RIVER AT MONTEZUMA, GA**

**LOCATION.**--Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highway 49, 1,000 feet upstream from Central of Georgia Railway bridge, 1,400 feet upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mile west of Montezuma and at mile 180.6.

**DRAINAGE AREA.**--2,900 mi<sup>2</sup>, approximately; includes that of Buck Creek.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for January to December 1910, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

**REVISED RECORDS.**--WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior 1912). WDR GA-82-1: 1981(P).

**GAGE.**—Phone telemetry with a water-stage recorder. Datum of gage is 255.83 feet above sea level. From January 1905 to December 1909, and January 1911 to December 1912, non-recording gage at site 1.5 mile upstream at same datum. From July 1, 1930 to June 30, 1933, and Oct. 1, 1934 to Dec. 12, 1941, non-recording gage, and Dec. 13, 1941 to Oct. 25, 1955, water-station recorder at site 500 feet downstream at same datum.

**REMARKS.**--Records good, except for estimated daily discharges, which are fair. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by power plant above station. Periods of monthly discharge only are not included in statistics computations.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood on Mar. 2, 1897, reached a stage of 26.0 feet at former site, from National Weather Service, discharge, 97,000 ft<sup>3</sup>/s, from rating curve extended above 10,000 ft<sup>3</sup>/s on basis of peak flows passing upstream and downstream stations. Flood on Mar. 17, 1929, reached a stage of 27.4 feet, at present site, from National Weather Service discharge, 92,300 ft<sup>3</sup>/s, from rating curve extended above 65,000 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 13,000 ft<sup>3</sup>/s and maximum (\*):

DATE	TIME	DISCHARGE (ft <sup>3</sup> /s)	GAGE HEIGHT (ft)
Mar. 24	0415	6,740*	9.13*

No other peaks greater than base discharge

STATION NUMBER 02349500 FLINT RIVER AT MONTEZUMA, GA STREAM SOURCE AGENCY USGS  
 LATITUDE 321753 LONGITUDE 0840238 DRAINAGE AREA 2900.00 DATUM 255.83 STATE 13 COUNTY 193

PROVISIONAL DATA

SUBJECT TO REVISION

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	797	863	1620	1340	3840	1710	3930	1250	605	645	449	658
2	765	934	1440	1310	3800	1760	3590	1210	580	536	469	702
3	773	1020	1290	1280	3350	1730	3070	1160	556	484	526	866
4	926	1160	1210	1270	2870	1800	2680	1130	543	465	559	871
5	1060	1220	1160	1280	2520	2080	2890	1100	547	461	583	964
6	1130	1240	1140	1280	2300	2090	3690	1060	552	457	571	1200
7	1100	1280	1120	1280	2150	1970	4160	1040	545	454	596	1620
8	998	1270	1120	1260	2040	1840	4090	1030	525	450	597	1700
9	923	1160	1130	1280	1950	1780	3330	1020	508	447	546	1540
10	913	1080	1200	1550	1890	1680	2590	963	490	444	505	1320
11	994	1030	1260	2110	1850	1660	2250	916	479	441	485	1110
12	1220	1000	1250	4110	1830	1890	2080	882	475	474	479	953
13	1650	984	1260	5410	1800	2480	1960	855	473	658	440	854
14	1840	972	1340	5640	1820	2750	1870	820	467	629	420	787
15	1800	960	1460	4830	1820	2450	1830	784	461	585	416	737
16	1590	947	1640	3210	1970	2220	1880	758	456	513	415	692
17	1360	943	1630	2340	2470	2250	1960	727	452	457	415	650
18	1220	932	1590	2030	2470	2760	1900	703	458	432	415	627
19	1130	e906	1620	1890	2240	2890	1780	680	450	428	418	616
20	1070	e926	1660	1820	2050	2940	1680	663	449	425	415	604
21	1020	e945	1670	1770	1910	4250	1580	646	471	419	421	598
22	989	e952	1740	1750	1820	5820	1500	654	467	409	508	651
23	971	e954	1950	1800	1760	6530	1430	659	491	409	568	988
24	949	1020	2260	2420	1700	6630	1390	615	544	415	453	1720
25	925	1060	2220	4010	1660	5890	1400	660	509	502	409	1890
26	912	1140	2000	5380	1620	4010	1430	632	480	518	408	1690
27	906	1200	1760	5410	1620	3040	1410	703	513	454	558	1330
28	895	1340	1580	4440	1620	2730	1370	780	579	456	677	1130
29	882	1580	1480	3280	1650	2580	1340	696	556	453	701	995
30	868	1680	1420	2810	---	2930	1290	634	603	429	662	886
31	861	---	1370	3310	---	3600	---	620	---	430	617	---
TOTAL	33437	32698	46590	82900	62390	90740	67350	26050	15284	14779	15701	30949
MEAN	1079	1090	1503	2674	2151	2927	2245	840	509	477	506	1032
MAX	1840	1680	2260	5640	3840	6630	4160	1250	605	658	701	1890
MIN	765	863	1120	1260	1620	1660	1290	615	449	409	408	598
CFSM	.37	.38	.52	.92	.74	1.01	.77	.29	.18	.16	.17	.36
IN.	.43	.42	.60	1.06	.80	1.16	.86	.33	.20	.19	.20	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2000, BY WATER YEAR (WY)

MEAN	1705	2115	3577	4851	5963	6743	5512	3256	2340	2582	2066	1550
MAX	6339	7272	11490	12350	11380	14980	15030	9758	6122	23990	4854	4105
(WY)	1965	1993	1949	1936	1974	1971	1936	1953	1959	1994	1936	1953
MIN	639	838	1306	1443	1962	1953	1736	840	509	477	506	672
(WY)	1955	1932	1934	1956	1989	1911	1986	2000	2000	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1905 - 2000
ANNUAL TOTAL	665220	518868	
ANNUAL MEAN	1823	1418	3532
HIGHEST ANNUAL MEAN			5593
LOWEST ANNUAL MEAN			1418
HIGHEST DAILY MEAN	9050	Feb 5	6630 Mar 24
LOWEST DAILY MEAN	525	Sep 18	408 Aug 26
ANNUAL SEVEN-DAY MINIMUM	541	Sep 12	416 Aug 14
INSTANTANEOUS PEAK FLOW			6740 Mar 24
INSTANTANEOUS PEAK STAGE			9.13 Mar 24
INSTANTANEOUS LOW FLOW			397 Aug 26
ANNUAL RUNOFF (CFSM)	.63	.49	1.22
ANNUAL RUNOFF (INCHES)	8.53	6.66	16.55
10 PERCENT EXCEEDS	3010	2750	7030
50 PERCENT EXCEEDS	1530	1130	2340
90 PERCENT EXCEEDS	719	458	1040