

APALACHICOLA RIVER BASIN
2000 Calendar Year

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA

PERIODIC WATER-QUALITY RECORDS

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at the bridge on US Highway 27, 1.0 mile downstream from Centralhatchee Creek, 2.0 miles upstream from Hillabahatchee Creek, 0.2 mile southwest of Franklin, and at mile 235.5.

DRAINAGE AREA.--2,680 mi², approximately.

PERIOD OF RECORD.--

Streamflow: June 1928 to October 1931, October 1938 to September 1939, and October 1957 to September 1959.

Continuous Gage-height: October 1994 to July 1997.

Continuous Water-quality: Provisional data are available, upon request, for October 1994 to July 1997.

Periodic Water-quality: July 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 623.86 feet above sea level (from US Army Corps of Engineers). June 5, 1928 to October 31, 1931, non-recording gage at site 250 feet downstream at a datum 0.25 feet lower; October 1, 1938 to September 30, 1939, non-recording gage at site 500 feet downstream and same datum; October 1, 1957 to September 30, 1959, non-recording gage at same site and datum; October 1994 to July 1997, recording gage at same datum.

AVERAGE DISCHARGE.--6 years (water years 1929-31, 1939, 1958-59), 4,160 ft³/s, 21.09 in/yr.

EXTREME STREAMFLOWS FOR PERIOD OF RECORD.--Maximum discharge, 54,000 ft³/s, March 15, 1929, gage height, 22.7 feet, from rating curve extended above 36,000 ft³/s on basis of peak flow at stations Chattahoochee River near Norcross, GA and Chattahoochee River at West Point, GA; minimum, 448 ft³/s, October 29, 1931, observed gage height, 3.32 feet, site and datum then in use.

EXTREME STREAMFLOWS OUTSIDE PERIOD OF RECORD.--The flood of December 1919 reached a stage of 28.4 ft, based on floodmarks; and a discharge 105,000 ft³/s, from rating curve extended above 36,000 ft³/s on basis of peak flow at stations Chattahoochee River near Norcross, GA and Chattahoochee River at West Point, GA.

EXTREME GAGE-HEIGHT FOR PERIOD OF RECORD.--Maximum recorded gage height, 25.32 feet, Oct. 6, 1995; minimum recorded gage height, 6.63 feet, September 12, 1995.

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REMARKS.--Since October 1974, the streamflow gaging station which was located at this site has been in the pool of West Point Lake formed by the dam at mile 201.4. The flow at this site has been regulated by Lake Sidney Lanier since January 1956 (station 02334400) and is affected by backwater from West Point Lake (station 02339400). Laboratory analyses with analyzing agency code 81213 are by the U.S. Geological Survey, Ocala Water Quality and Research Laboratory. Laboratory analyses with analyzing agency code 81341 are by the Georgia Department of Natural Resources, Environmental Protection Division, Laboratory Operations Program. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, CALENDAR YEAR JANUARY 2000 TO DECEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE NUMBER (00028)	DIS- CHARGE, INST. FEET PER SECOND (00061)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED CENT SATUR- ATION) (MG/L) (00301)	PH WATER WHOLE (STAND- ARD UNITS) (00400)	PH WATER WHOLE (STAND- ARD UNITS) (00403)
JAN										
19...	1050	81213	E1960	.2	11	10	9.6	90	6.6	7.4
FEB										
15...	0930	81213	E7360	5.3	350	230	8.9	82	7.0	6.9
MAR										
20...	0940	81213	E12600	2.5	110	100	8.4	85	7.1	7.0
22...	0915	81213	E5760	--	--	--	9.0	88	6.8	--
27...	0705	81213	E2080	--	--	--	7.3	82	7.1	--
APR										
03...	1030	81213	E15000	3.5	380	260	7.3	79	7.0	6.8
MAY										
30...	0840	81213	E1650	.8	19	13	6.4	79	7.3	7.4
JUN										
12...	0645	81213	E1250	--	--	--	6.5	81	7.2	--
19...	0630	81213	E1370	--	--	--	6.7	83	7.1	--
27...	0750	81213	E1710	.7	16	6.0	6.6	83	7.3	7.7
JUL										
31...	0630	81213	E2570	3.4	33	32	6.8	84	7.1	7.5
AUG										
10...	0610	81213	E2490	--	--	--	6.2	82	7.2	--
14...	0855	81213	E1180	--	--	--	6.8	85	7.3	--
28...	0800	81213	E3010	.6	26	20	7.2	87	7.3	7.4
SEP										
20...	0830	81213	E1190	.6	7	3.6	7.5	90	7.2	7.6
26...	0615	81213	E3560	--	--	--	7.1	87	7.1	--
OCT										
16...	0745	81213	E1200	--	--	--	8.7	93	7.3	--
18...	0820	81213	E1750	.7	6	4.4	8.1	90	7.5	7.8
NOV										
21...	0955	81213	E3110	1.4	31	31	10.6	93	7.1	7.1
DEC										
05...	0740	81213	E1820	1.1	3	5.0	10.1	91	6.9	7.5

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DATE	SPE-CIFIC CONDUCTANCE LAB (US/CM) (90095)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	ANC UNFLTRD TIT 4.5 LAB (MG/L) (90410)	NITROGEN, AMMONIA TOTAL (MG/L) (00610)	NITROGEN, NO2+NO3 TOTAL (MG/L) (00630)	PHOSPHORUS TOTAL (MG/L) (00665)	CARBON, ORGANIC TOTAL (MG/L) (00680)	COLIFORM, FECAL, BROTH (MPN) (31615)	MAGNESIUM, TOTAL RECOVERABLE (MG/L) (00927)
JAN 19...	142	147	10.0	11.4	28	.10	1.8	.050	2.7	20	
FEB 15...	91	88	7.0	11.5	20	.20	.9	.440	3.2	--	
MAR 20...	95	96	12.2	14.6	19	.18	1.2	.190	3.3	4900	
MAR 22...	--	69	14.5	14.0	--	--	--	--	--	7900	
MAR 27...	--	130	12.9	19.7	--	--	--	--	--	20	
APR 03...	90	86	17.0	17.7	18	.15	1.1	.390	2.9	3500	
MAY 30...	159	159	21.7	25.5	29	.07	2.2	.070	2.6	<20	
JUN 12...	--	145	22.9	26.1	--	--	--	--	--	50	
JUN 19...	--	118	21.5	25.8	--	--	--	--	--	50	
JUN 27...	123	127	25.8	26.7	24	.04	1.6	.060	2.0	50	
JUL 31...	123	124	19.7	25.2	24	.08	1.8	.100	2.2	81	
AUG 10...	--	170	22.5	29.4	--	--	--	--	--	230	
AUG 14...	--	138	23.9	26.2	--	--	--	--	--	230	
AUG 28...	113	114	23.5	24.3	22	.05	1.5	.080	2.1	170	
SEP 20...	177	180	18.4	23.5	32	<.01	2.7	.050	2.4	<20	
SEP 26...	--	120	14.7	24.3	--	--	--	--	--	170	
OCT 16...	--	165	6.9	17.9	--	--	--	--	--	70	
OCT 18...	183	181	11.8	20.0	34	.04	2.5	.030	2.4	50	
NOV 21...	111	112	1.0	9.4	24	.21	1.1	.090	2.4	--	
DEC 05...	160	162	-5.5	10.6	29	.13	2.2	.020	3.0	--	
MAR 20...	0940	81213	E12600	8.4	85	7.1	96	12.2	14.6	6.3	1.8
SEP 20...	0830	81213	E1190	7.5	90	7.2	180	18.4	23.5	3.8	1.4
MAR 20...	<1.0	<2.0	<.5	3.1	7.9	5.4	<.1	2.3	<2.0	<2.0	21
SEP 20...	<1.0	<4.0	<.5	<1.0	<2.0	<2.0	<.1	<1.0	<4.0	<2.0	3.0