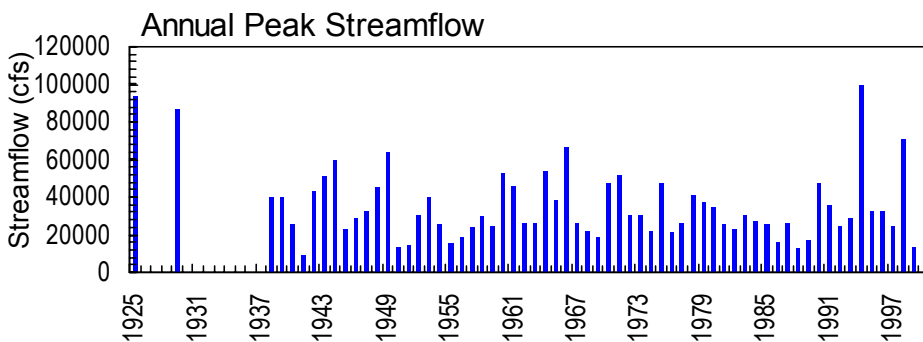
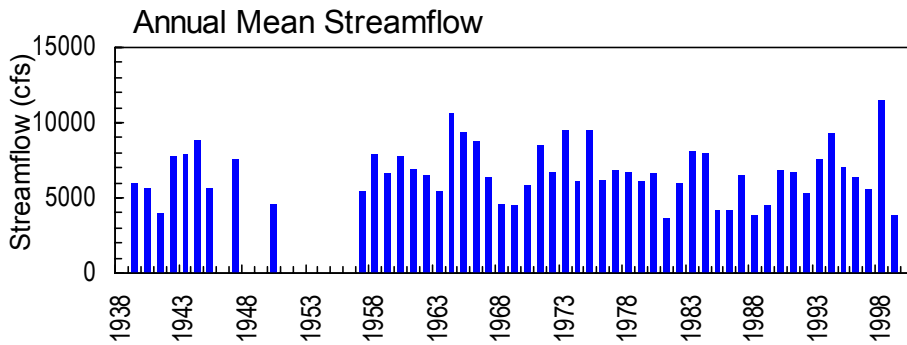
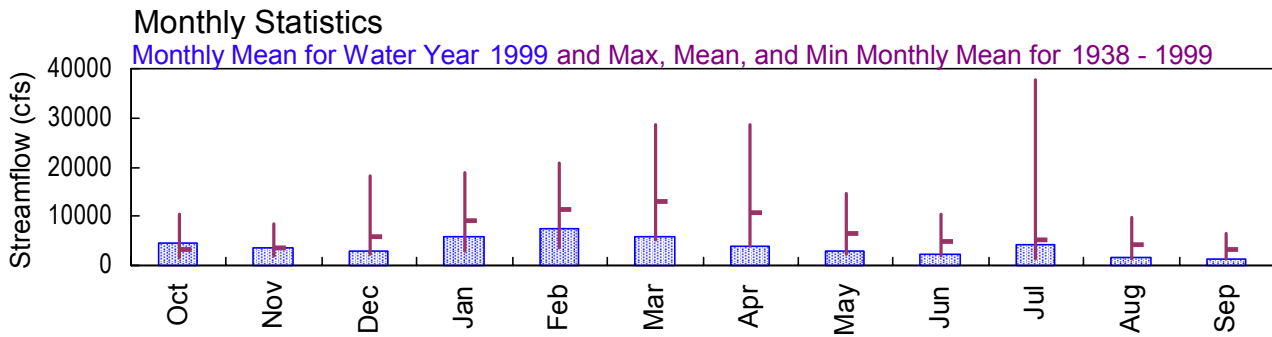
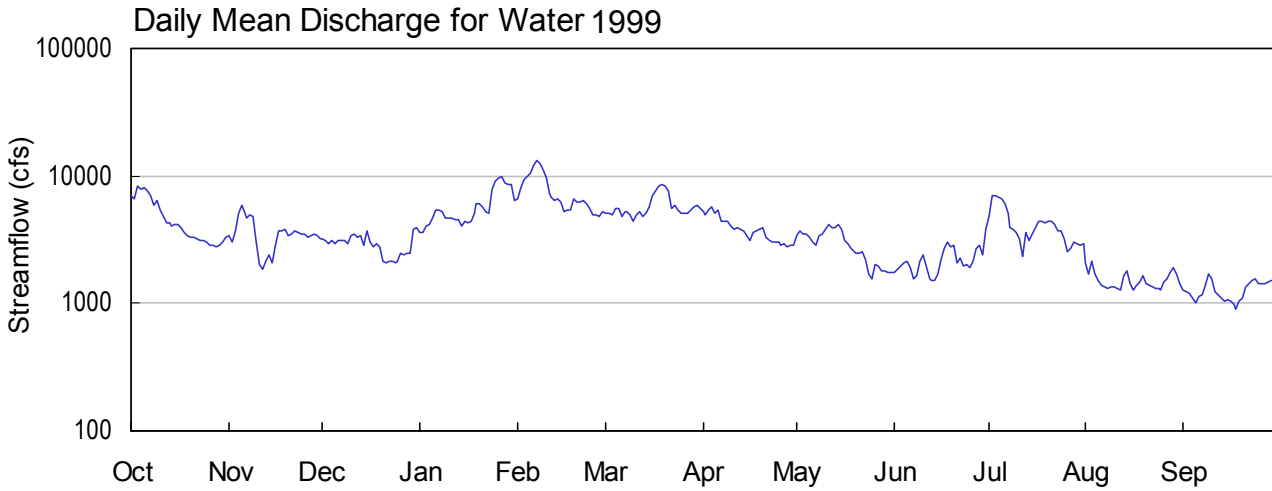


APALACHICOLA RIVER BASIN
 FLINT RIVER AT NEWTON, GA.

02353000

Latitude: 31° 18' 34" Longitude: 84° 20' 06" Hydrologic Unit Code: 03130008 Baker County
 Drainage Area: 5740.0 mi² Datum: 110.2 feet Period of Record: 1938 - 1999



USGS
 02353000 - Flint River at Newton, GA

**APALACHICOLA RIVER BASIN
1999 Water Year**

02353000 FLINT RIVER AT NEWTON, GA

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1.0 mile downstream from Coolewahee Creek, and at mile 69.5.

DRAINAGE AREA.--5,740 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1950 (monthly discharge only for October 1945 to September 1946, October 1947 to December 1948, published in WSP 1304), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.20 feet above sea level (levels by U.S. Army Corps of Engineers). Prior to Nov. 12, 1956, non-recording gage was located at same site and datum.

REMARKS.--Records good. Flow regulated by power plants at Flint River Reservoir since 1921, with capacity of 7,500 acre-ft; and at Warwick Reservoir since 1930, with a capacity of about 35,000 acre-ft. Normal operation of power plants does not materially affect figures of monthly runoff. Periods of monthly discharge only are not included in statistics computations.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 20,000 ft³/s and maximum (*):

DATE	TIME	DISCHARGE (ft ³ /s)	GAGE HEIGHT (ft)
Feb. 7	1700	13,300*	12.77*

No other peaks greater than base discharge

**APALACHICOLA RIVER BASIN
1999 Water Year**

02353000 FLINT RIVER AT NEWTON, GA-continued

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1.0 mile downstream from Coolewahee Creek, and at mile 69.5.

DRAINAGE AREA.--5,740 mi², approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, May 1981 to current year.

STATION NUMBER 02353000 FLINT RIVER AT NEWTON, GA. STREAM SOURCE AGENCY USGS
 LATITUDE 311834 LONGITUDE 0842006 DRAINAGE AREA 5740.00 DATUM 110.20 STATE 13 COUNTY 007

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	7090	3370	3220	3560	6660	5040	5320	3440	1750	4770	2060	1270
2	6690	3040	3110	3630	8040	5100	4980	3670	1870	7040	1700	1240
3	8350	3730	2970	3990	9420	4990	5440	3480	1940	7020	2150	1190
4	7810	5110	3080	4140	9820	5590	5720	3480	2080	6900	1690	1100
5	8030	5880	2900	4610	10600	5590	5120	3340	2170	6590	1500	1010
6	7630	5040	3130	5460	12000	4800	5430	3060	1890	6010	1400	1130
7	7050	4680	3140	5340	13100	5290	4360	2870	1580	5070	1360	1160
8	5830	5010	3130	5190	12400	5240	4460	3410	1660	3920	1320	1370
9	6410	4810	2930	4690	11000	4950	4410	3470	2140	3870	1350	1720
10	5340	2990	3440	4610	9570	4410	4070	3820	2430	3600	1340	1540
11	4850	2000	3460	4680	7130	4890	3870	4170	1880	3190	1300	1230
12	4330	1850	3270	4580	6780	5180	3960	3890	1540	2330	1260	1180
13	4300	2130	3440	4480	6370	4750	3820	3890	1510	3630	1640	1090
14	4030	2430	2830	4070	6540	5070	3660	4130	1530	3140	1800	1050
15	4150	2050	3740	4430	6160	5720	3370	3790	1710	3540	1420	1070
16	4130	2850	3020	4340	5230	6940	3130	3160	2180	3890	1290	1050
17	3950	3670	2750	4450	5360	7530	3550	2940	2680	4430	1380	972
18	3640	3660	2900	5030	5330	8320	3750	2690	3000	4360	1480	910
19	3430	3810	2810	6080	6570	8450	3870	2550	2780	4300	1650	1030
20	3280	3420	2120	6030	6230	8330	3920	2480	2840	4460	1440	1100
21	3280	3450	2100	5750	6230	7720	3350	2450	2100	4370	1380	1330
22	3180	3680	2120	5190	6340	5540	3120	2560	2300	4170	1340	1440
23	3140	3630	2170	5150	6010	5970	3010	2190	1970	3700	1300	1530
24	3160	3490	2090	7960	5520	5360	3040	1720	2030	3660	1300	1540
25	3050	3500	2110	9120	4980	5030	3060	1550	1880	3170	1260	1430
26	2870	3330	2440	9620	4910	5090	2870	2030	2120	2510	1450	1430
27	2840	3380	2410	9850	4760	5060	2930	1970	2700	2700	1560	1440
28	2780	3540	2460	8780	5270	5360	2770	1820	2830	3070	1730	1450
29	2850	3400	2490	8630	---	5790	2820	1820	2380	2970	1890	1500
30	3040	3220	3850	8540	---	5880	2890	1730	3850	2870	1680	1530
31	3310	---	3960	6420	---	5570	---	1770	---	2960	1430	---

TOTAL	143820	106150	89590	178400	208330	178550	116070	89340	65320	128210	46850	38032
MEAN	4639	3538	2890	5755	7440	5760	3869	2882	2177	4136	1511	1268
MAX	8350	5880	3960	9850	13100	8450	5720	4170	3850	7040	2150	1720
MIN	2780	1850	2090	3560	4760	4410	2770	1550	1510	2330	1260	910
CFSM	.81	.62	.50	1.00	1.30	1.00	.67	.50	.38	.72	.26	.22
IN.	.93	.69	.58	1.16	1.35	1.16	.75	.58	.42	.83	.30	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	3362	3678	5844	8961	11220	13160	10720	6386	4754	5142	4092	3114
MAX	10440	8461	18280	18990	20820	28620	28750	14770	10300	37690	9841	6557
(WY)	1965	1998	1998	1964	1998	1998	1944	1964	1973	1994	1994	1994
MIN	1566	1881	2243	2768	3457	5322	3869	2222	2064	1144	1173	1268
(WY)	1988	1991	1991	1981	1989	1981	1999	1986	1988	1986	1986	1999

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1938 - 1999

ANNUAL TOTAL		3597790		1388662								
ANNUAL MEAN		9857		3805						6642		
HIGHEST ANNUAL MEAN										11540		1998
LOWEST ANNUAL MEAN										3647		1981
HIGHEST DAILY MEAN		70400	Mar 12	13100	Feb 7				100000		Jul 13	1994
LOWEST DAILY MEAN		1730	Aug 31	910	Sep 18				840		Oct 20	1940
ANNUAL SEVEN-DAY MINIMUM		2160	Dec 20	1020	Sep 13				993		Aug 9	1986
INSTANTANEOUS PEAK FLOW				13300	Feb 7				100000		Jul 13	1994
INSTANTANEOUS PEAK STAGE				12.77	Feb 7				45.25		Jul 13	1994
INSTANTANEOUS LOW FLOW				904	Sep 18				790		Oct 20	1940
ANNUAL RUNOFF (CFSM)		1.72		.66					1.16			
ANNUAL RUNOFF (INCHES)		23.32		9.00					15.72			
10 PERCENT EXCEEDS		20000		6580					13300			
50 PERCENT EXCEEDS		4770		3420					4720			
90 PERCENT EXCEEDS		2860		1430					2150			

STATISTICS COMPUTED BY: rnichols

DATE: 06/28/2000 AT: 14:18:42

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 02353000 - FLINT RIVER AT NEWTON, GA.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT						
23...	0743	1028	2810	20.0	6	46
23...	0748	1028	2810	20.0	6	46
DEC						
16...	1031	1028	3080	15.0	6	50
16...	1036	1028	3080	15.0	5	42
FEB						
12...	1010	1028	7460	16.0	10	201
12...	1015	1028	7460	16.0	10	201
MAR						
22...	1248	1028	5300	17.0	3	43
22...	1253	1028	5300	17.0	3	43
MAY						
21...	1131	1028	2580	25.0	9	63
21...	1136	1028	2580	25.0	8	56
JUL						
02...	1106	1028	7430	--	35	702
02...	1111	1028	7430	--	39	782
AUG						
26...	1205	1028	1450	30.0	6	23
26...	1210	1028	1450	30.0	5	20