



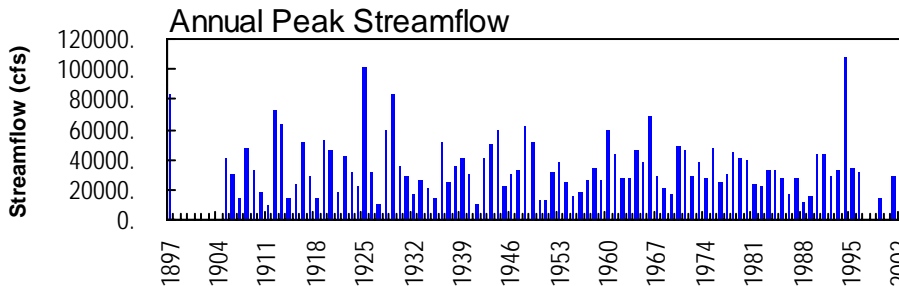
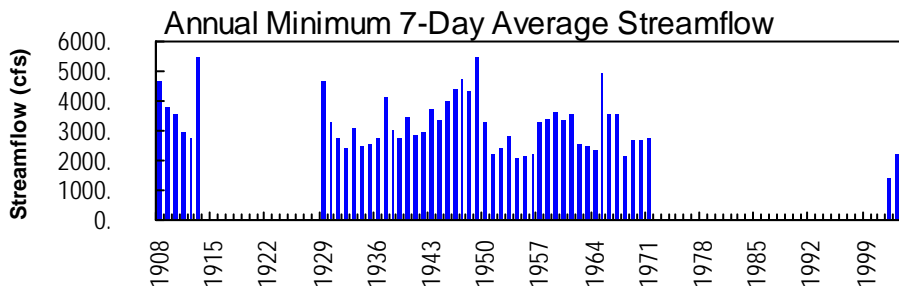
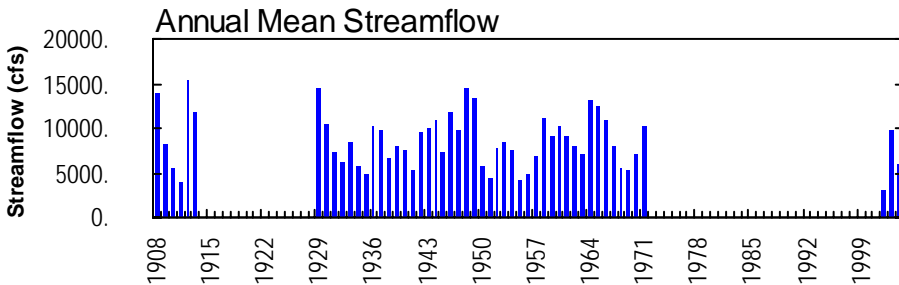
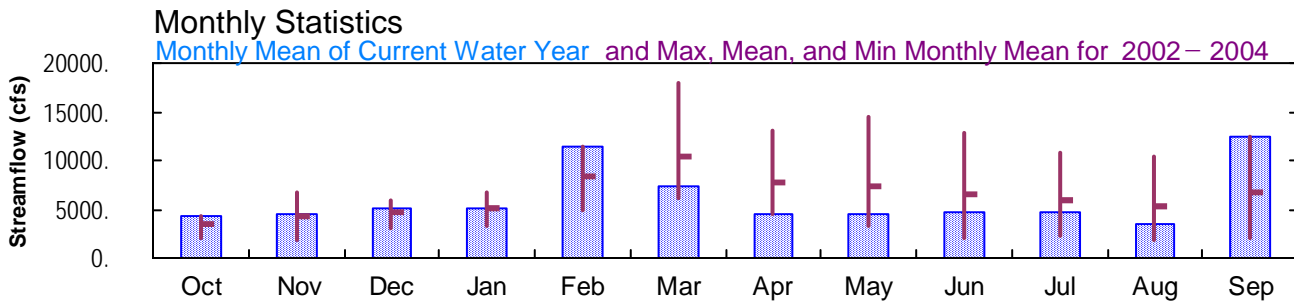
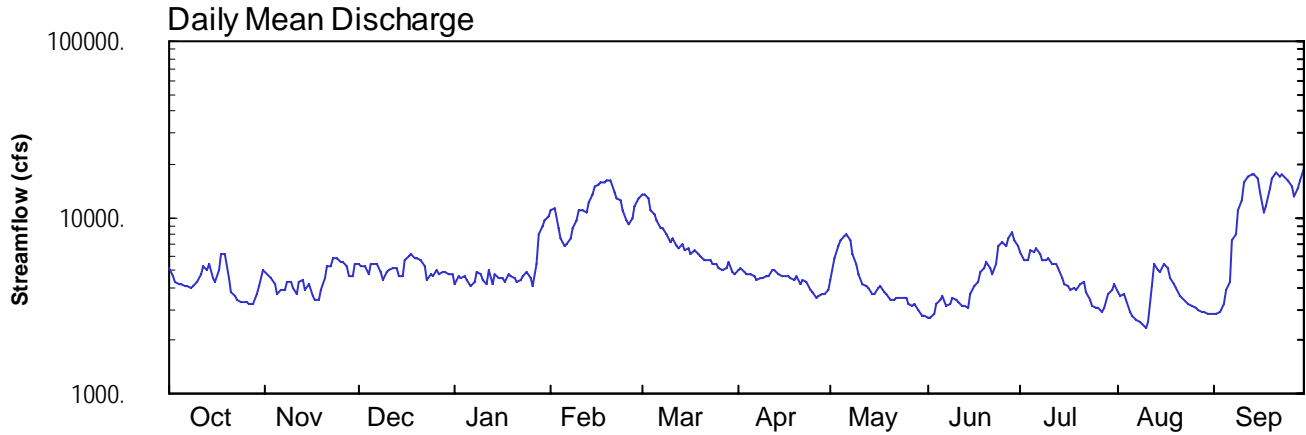
2004 Water Year
APALACHICOLA RIVER BASIN

02356000 FLINT RIVER AT BAINBRIDGE, GA

Latitude: 30° 54 ' 41 "
Decatur County

Longitude: 084° 34 ' 48 "
Datum: 58.06 feet

Hydrologic Unit Code: 03130008
Drainage Area: 7570. mi²



NO PHOTOS AVAILABLE FOR THIS SITE

**APALACHICOLA RIVER BASIN
2004 Water Year**

02356000 FLINT RIVER AT BAINBRIDGE, GA

LOCATION.—Lat 30°54'41", long 84°34'48" referenced to North American Datum (NAD) of 1927, Decatur County, Hydrologic Unit 03130008, on downstream side of bridge on US 27 (Business Route), 0.2 miles downstream from Seaboard Coast Line Railroad bridge, and 29.2 miles upstream from Jim Woodruff Dam, and at mile 29.0.

DRAINAGE AREA.—7,570 square miles, approximately.

COOPERATION.—Georgia Geologic Survey.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1907 to December 1913, October 1928 to September 1971, October 1971 to July 1976 (annual peaks only), October 1, 2001 to September 30, 2002.

GAGE.—Satellite telemetry with a water-stage recorder and an acoustic velocity meter. Datum of gage is 58.06 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to December 31, 1913, a non-recording gage was located at same site at datum 0.3 feet higher. From October 1, 1928 to January 14, 1929, a non-recording gage was located at present site and datum. An auxiliary water-stage recorder was located at a site 6.4 miles upstream January 15, 1957 to September 1971.

REMARKS.—Records good, except for periods of estimated discharge, which are fair. Flow regulated by power plants at Flint River Reservoir since 1921, with a capacity of 7,500 acre-feet; and at Warwick Reservoir since 1930, with a capacity of about 35,000 acre-feet. Normal operation of power plants does not materially affect figures of monthly runoff.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 108,000 cfs July 14, 1994; gage-height, 37.20 feet; minimum daily, 1,340 cfs, Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1893, 40.9 feet, present datum, Jan. 24, 1925, discharge 101,000 cfs, from rating curve extended above 70,000 cfs on the basis of slope-conveyance studies.

**APALACHICOLA RIVER BASIN
2004 Water Year**

02356000 FLINT RIVER AT BAINBRIDGE, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—1904 to 1907, October 1907 to December 1913, October 1928 to current year.

GAGE.—Satellite telemetry with a water-stage recorder and an acoustic velocity meter. Datum of gage is 58.06 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to December 31, 1913, a non-recording gage was located at same site at datum 0.3 feet higher. From October 1, 1928 to January 14, 1929, a non-recording gage was located at present site and datum. An auxiliary water-stage recorder was located at a site 6.4 miles upstream January 15, 1957 to September 1971.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 21.45 feet, September 30; minimum gage-height recorded, 12.63 feet, August 9.

WATER-VELOCITY RECORDS

PERIOD OF RECORD.—April 18, 2001 to current year.

GAGE.—Acoustic velocity meter. Data represents the average water velocity at the downstream cross-section of the bridge with positive values in the downstream direction.

REMARKS.—Records good.

PRECIPITATION RECORDS

PERIOD OF RECORD.—April 18, 2001 to current year.

GAGE.—Tipping-bucket raingage.

REMARKS.—Records good.

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

STATION NUMBER 02356000 FLINT RIVER AT BAINBRIDGE, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 087
 LATITUDE 305441 LONGITUDE 0843448 NAD27 DRAINAGE AREA 7570.00* CONTRIBUTING DRAINAGE AREA DATUM 58.06 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	5150	4870	e5370	4230	11000	13600	5010	4420	2660	6340	3760	2810
2	4610	4610	5230	4640	11300	13400	5110	5920	2700	5710	3580	2810
3	4340	4560	5230	4550	8620	12700	4840	6770	2840	5740	3640	2870
4	4220	4210	4810	e4610	e7520	11000	4770	7330	3260	6580	3410	3250
5	4150	3640	5400	4370	6900	10400	4770	7890	3430	6410	2940	3850
6	4120	3860	5420	4120	7030	9600	4650	8010	3560	6660	2750	4320
7	4080	3910	5400	4250	7640	8690	4400	7400	3160	6220	2610	7400
8	3930	4300	4890	4910	8570	8620	4500	6260	3260	5780	2570	8090
9	4100	4240	4370	4780	9630	7930	4490	5410	3460	5680	2500	10900
10	4250	3950	4920	4360	10800	7290	4600	4780	3410	5860	2340	12400
11	4740	3720	5000	4220	10900	7630	4680	4160	3290	5370	2560	15600
12	5350	4320	5190	5060	10800	6890	4970	4060	3170	5480	4120	17000
13	e5030	4420	5160	4210	12100	6740	5010	3960	3160	5130	5490	17300
14	5480	3860	4670	4730	13300	6990	4770	3700	3070	4570	5030	17300
15	4560	4210	4670	4550	14800	6570	4590	3660	3630	4160	4870	16600
16	4280	3570	5750	4520	15400	6680	4660	3990	4070	4050	5410	13800
17	5020	3410	6000	4320	15700	6230	4690	4080	4270	3920	5140	10600
18	6150	3380	6240	4790	15800	6580	4550	3820	4950	3970	4540	11600
19	6220	3910	5820	4600	16200	6160	4420	3650	5160	3910	4200	14400
20	4490	4580	5790	4510	16200	6070	4680	3370	5630	4200	3930	16400
21	3740	5270	5710	4300	13800	5770	4200	3410	5180	4320	3590	17800
22	3620	5340	5270	4440	12800	5670	4350	3440	4720	3770	3480	17200
23	3390	e5920	4370	4630	12400	5740	4260	3490	5390	3360	3340	17600
24	3330	e5880	4730	4940	11100	5460	3860	3530	6790	3160	3240	16600
25	3280	5620	4670	4470	9660	5420	3770	3510	7280	3040	3120	16200
26	3310	5570	5000	4020	9190	5150	3520	3220	6930	3040	3040	15000
27	3240	e5290	4700	5400	9800	5060	3580	3130	7630	2880	2940	13000
28	3190	e4660	4930	8000	11600	5160	3650	3250	8220	3060	2930	14400
29	e3690	e4700	4940	8830	12800	5620	3700	2960	7390	3670	2870	16000
30	4090	e5410	4720	9650	---	4920	3820	2750	6800	3850	2810	18700
31	4970	---	4780	10200	---	4760	---	2730	---	4140	2810	---
TOTAL	134120	135190	159150	159210	333360	228500	132870	138060	138470	144030	109560	371800
MEAN	4326	4506	5134	5136	11500	7371	4429	4454	4616	4646	3534	12390
MAX	6220	5920	6240	10200	16200	13600	5110	8010	8220	6660	5490	18700
MIN	3190	3380	4370	4020	6900	4760	3520	2730	2660	2880	2340	2810
CFSM	0.57	0.60	0.68	0.68	1.52	0.97	0.59	0.59	0.61	0.61	0.47	1.64
IN.	0.66	0.66	0.78	0.78	1.64	1.12	0.65	0.68	0.68	0.71	0.54	1.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
MEAN	3377	4349	4711	5105	8330	10510	7729	7437	6534	5891	5278	6715
MAX	4326	6643	6011	6825	11500	17980	13000	14550	12920	10790	10460	12390
(WY)	2004	2003	2003	2003	2004	2003	2003	2003	2003	2003	2003	2004
MIN	2098	1897	2989	3355	4934	6175	4429	3314	2066	2241	1839	2091
(WY)	2002	2002	2002	2002	2002	2002	2004	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 2002 - 2004

ANNUAL TOTAL		3490870		2184320		
ANNUAL MEAN		9564		5968		6316
HIGHEST ANNUAL MEAN						9762
LOWEST ANNUAL MEAN						3219
HIGHEST DAILY MEAN		23900	Mar 23	18700	Sep 30	23900
LOWEST DAILY MEAN		3190	Oct 28	2340	Aug 10	1190
ANNUAL SEVEN-DAY MINIMUM		3340	Oct 22	2610	Aug 5	1430
MAXIMUM PEAK FLOW				20300	Sep 30	25200
MAXIMUM PEAK STAGE				21.45	Sep 30	22.64
ANNUAL RUNOFF (CFSM)		1.26		0.788		0.834
ANNUAL RUNOFF (INCHES)		17.15		10.73		11.34
10 PERCENT EXCEEDS		17300		11400		13200
50 PERCENT EXCEEDS		8660		4730		4760
90 PERCENT EXCEEDS		4230		3240		2080

e Estimated

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

STATION NUMBER 02356000 FLINT RIVER AT BAINBRIDGE, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 087
 LATITUDE 305441 LONGITUDE 0843448 NAD27 DRAINAGE AREA 7570.00* CONTRIBUTING DRAINAGE AREA DATUM 58.06 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	18.96	19.07	---	19.24	19.31	20.40	18.87	18.58	17.81	19.29	18.51	17.91
2	18.73	19.01	19.76	19.23	19.64	20.33	18.96	18.83	17.91	19.20	18.46	17.96
3	18.52	19.00	19.70	19.22	19.39	20.09	18.91	19.06	18.09	19.25	18.49	18.00
4	18.43	19.09	19.67	---	---	19.75	18.84	19.26	18.22	19.39	18.50	18.06
5	18.32	18.99	19.80	19.08	19.28	19.57	18.76	19.36	18.25	19.41	18.46	18.06
6	18.24	19.00	19.83	19.15	19.47	19.51	18.75	19.45	18.21	19.48	18.31	17.99
7	18.20	19.07	19.77	19.19	19.90	19.41	18.68	19.39	18.16	19.54	18.11	18.60
8	18.36	19.09	19.71	19.26	19.89	19.32	18.66	19.20	18.08	19.48	17.90	19.08
9	18.58	18.98	19.46	19.27	19.89	19.23	18.63	18.95	18.06	19.44	17.74	19.59
10	18.71	18.93	19.32	19.19	19.78	19.30	18.67	18.75	18.00	19.35	17.79	19.81
11	18.83	18.87	19.15	18.94	19.74	19.48	18.65	18.72	17.96	19.11	18.10	20.31
12	19.15	18.99	19.04	18.71	19.84	19.48	18.64	18.71	18.04	18.90	18.30	20.71
13	---	19.06	19.00	18.67	20.15	19.35	18.79	18.75	18.02	18.81	18.28	20.98
14	19.19	18.99	19.14	18.67	20.51	19.33	18.66	18.67	18.07	18.77	18.32	21.08
15	19.05	19.00	19.23	18.67	20.68	19.29	18.56	18.51	18.26	18.72	18.21	20.76
16	18.95	18.96	19.52	18.64	20.80	19.36	18.61	18.36	18.44	18.73	18.33	20.41
17	18.96	18.92	19.46	18.55	20.74	19.39	18.65	18.18	18.57	18.78	18.50	20.00
18	19.05	18.90	19.23	18.41	20.57	19.36	18.51	18.15	18.62	18.79	18.57	20.27
19	19.20	19.14	19.11	18.24	20.71	19.18	18.46	18.22	18.70	18.73	18.64	20.79
20	19.21	19.08	19.08	18.28	20.78	19.10	18.50	18.33	18.83	18.77	18.61	20.53
21	19.18	19.08	19.01	18.39	20.29	19.10	18.40	18.31	18.81	18.82	18.49	20.73
22	19.02	19.21	18.97	18.64	19.81	18.95	18.35	18.34	18.89	18.84	18.30	20.64
23	19.04	---	18.98	19.01	19.47	19.08	18.29	18.31	19.08	18.82	18.11	20.71
24	18.99	---	19.05	19.23	19.26	19.19	18.15	18.28	19.22	18.78	18.06	20.55
25	18.87	19.49	18.95	19.18	19.13	19.22	18.09	18.25	19.35	18.73	18.08	20.50
26	18.76	19.49	18.91	19.14	19.05	19.12	18.08	18.22	19.34	18.55	18.10	20.24
27	18.79	---	18.88	19.55	19.49	18.98	18.08	18.14	19.37	18.51	18.12	19.88
28	18.94	---	18.80	20.11	20.06	18.90	18.07	18.11	19.43	18.52	18.09	20.20
29	---	---	18.86	19.76	20.34	18.87	18.10	18.02	19.36	18.52	17.99	20.68
30	19.05	---	19.06	19.49	---	18.83	18.34	17.95	19.36	18.55	17.83	21.26
31	19.05	---	19.17	19.21	---	18.86	---	17.84	---	18.59	17.86	---
MEAN	---	---	---	---	---	19.33	18.52	18.55	18.55	18.94	18.23	19.88
MAX	---	---	---	---	---	20.40	18.96	19.45	19.43	19.54	18.64	21.26
MIN	---	---	---	---	---	18.83	18.07	17.84	17.81	18.51	17.74	17.91

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

STATION NUMBER 02356000 FLINT RIVER AT BAINBRIDGE, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 087
 LATITUDE 305441 LONGITUDE 0843448 NAD27 DRAINAGE AREA 7570.00* CONTRIBUTING DRAINAGE AREA DATUM 58.06 NGVD29

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	0.60	0.00	0.00	0.13	0.56	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.01	0.47	0.12	0.00	0.16
3	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.08	0.11	0.00	0.00	0.00
4	0.00	0.02	0.14	0.00	0.00	0.00	0.00	0.01	0.01	0.07	0.00	0.00
5	0.00	0.00	0.01	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
6	0.00	0.00	0.00	0.00	1.45	0.02	0.00	0.00	0.06	0.01	0.00	1.71
7	0.20	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.04	0.00	0.00	0.04
8	0.00	0.00	0.00	0.02	0.00	0.00	0.35	0.00	0.00	0.06	0.00	0.00
9	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00
10	0.03	0.00	0.50	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.59	0.46
11	1.50	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.11	0.00
12	0.17	0.00	0.00	0.00	0.84	0.00	0.15	0.02	0.10	0.00	0.60	0.00
13	0.00	0.00	0.38	0.00	0.23	0.00	0.19	0.00	0.61	0.43	0.00	0.09
14	0.00	0.00	0.51	0.00	1.09	0.00	0.00	0.00	0.79	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.54	1.45	0.00	0.14
16	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.18	0.96	1.65	2.15
17	0.00	0.00	0.35	0.05	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
18	0.00	0.38	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
19	0.00	0.69	0.00	0.00	0.00	0.00	0.00	1.14	0.01	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.44	0.00
23	0.00	0.00	0.48	0.00	0.84	0.00	0.00	0.00	0.26	0.00	0.26	0.00
24	0.00	0.46	0.02	0.00	0.50	0.00	0.00	0.00	0.56	0.02	0.00	0.00
25	0.01	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.56	0.00	0.00	3.24	0.07	0.00	0.93	0.00	0.41	0.00	0.00	0.28
27	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.90	0.00	0.83
28	1.17	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.30	0.00
29	0.01	0.00	0.01	0.00	0.00	0.12	0.01	0.00	0.00	0.00	0.07	0.00
30	0.00	0.00	0.29	0.00	---	0.31	1.80	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	1.47	---	0.00	0.00	---
TOTAL	3.79	2.09	2.69	3.97	6.60	0.59	3.52	2.93	5.63	4.11	4.03	6.06

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

STATION NUMBER 02356000 FLINT RIVER AT BAINBRIDGE, GA SOURCE AGENCY USGS STATE 13 COUNTY 087
 LATITUDE 305441 LONGITUDE 0843448 NAD27 DRAINAGE AREA 7570.00* CONTRIBUTING DRAINAGE AREA DATUM 58.06 NGVD29

Stream velocity, 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	0.55	0.51	---	0.44	1.15	1.32	0.53	0.48	0.30	0.66	0.41	0.32
2	0.49	0.49	0.53	0.48	1.16	1.31	0.54	0.63	0.30	0.60	0.39	0.32
3	0.47	0.48	0.53	0.47	0.89	1.26	0.51	0.71	0.32	0.60	0.39	0.32
4	0.46	0.44	0.49	---	---	1.11	0.51	0.76	0.36	0.68	0.37	0.36
5	0.46	0.38	0.55	0.46	0.72	1.06	0.51	0.82	0.38	0.66	0.32	0.43
6	0.46	0.41	0.55	0.43	0.72	0.99	0.50	0.82	0.39	0.68	0.30	0.48
7	0.45	0.41	0.55	0.44	0.77	0.90	0.47	0.76	0.35	0.64	0.29	0.80
8	0.43	0.45	0.50	0.51	0.86	0.89	0.49	0.65	0.36	0.59	0.29	0.85
9	0.44	0.45	0.45	0.50	0.97	0.83	0.49	0.57	0.39	0.59	0.29	1.11
10	0.46	0.42	0.51	0.46	1.09	0.76	0.50	0.51	0.38	0.61	0.27	1.25
11	0.51	0.40	0.52	0.45	1.10	0.78	0.50	0.45	0.37	0.56	0.29	1.53
12	0.56	0.46	0.55	0.54	1.09	0.71	0.54	0.44	0.35	0.58	0.45	1.63
13	---	0.47	0.55	0.45	1.20	0.70	0.54	0.42	0.35	0.55	0.61	1.64
14	0.57	0.41	0.49	0.51	1.29	0.72	0.51	0.40	0.34	0.49	0.55	1.62
15	0.48	0.45	0.49	0.49	1.42	0.68	0.50	0.40	0.40	0.45	0.54	1.59
16	0.45	0.38	---	0.49	1.47	0.69	0.50	0.44	0.44	0.43	0.59	1.35
17	0.53	0.36	0.62	0.47	1.50	0.64	0.50	0.45	0.46	0.42	0.56	1.06
18	0.65	0.36	0.65	0.52	1.53	0.68	0.49	0.42	0.53	0.42	0.49	1.14
19	0.65	0.41	0.61	0.51	1.56	0.64	0.48	0.40	0.55	0.42	0.45	1.38
20	0.47	0.48	0.61	0.50	1.54	0.64	0.51	0.38	0.60	0.45	0.42	1.59
21	0.39	0.55	0.60	0.47	1.35	0.61	0.46	0.37	0.55	0.46	0.39	1.71
22	0.38	0.56	0.56	0.48	1.30	0.60	0.48	0.38	0.50	0.40	0.38	1.66
23	0.36	---	0.46	0.49	1.28	0.60	0.47	0.38	0.57	0.36	0.37	1.69
24	0.35	---	0.50	0.51	1.15	0.57	0.43	0.39	0.71	0.34	0.36	1.61
25	0.35	0.58	0.49	0.47	1.01	0.57	0.42	0.39	0.75	0.33	0.35	1.57
26	0.36	0.57	0.53	0.42	0.97	0.54	0.39	0.36	0.72	0.33	0.34	1.48
27	0.35	---	0.50	0.55	1.01	0.54	0.40	0.35	0.79	0.31	0.33	1.30
28	0.34	---	0.53	0.79	1.16	0.55	0.41	0.36	0.85	0.33	0.33	1.42
29	---	---	0.53	0.89	1.25	0.60	0.41	0.33	0.76	0.40	0.32	1.54
30	0.43	---	0.50	0.99	---	0.52	0.42	0.31	0.70	0.42	0.32	1.74
31	0.52	---	0.50	1.06	---	0.51	---	0.31	---	0.45	0.32	---
MEAN	---	---	---	---	---	0.76	0.48	0.48	0.49	0.49	0.39	1.22
MAX	---	---	---	---	---	1.32	0.54	0.82	0.85	0.68	0.61	1.74
MIN	---	---	---	---	---	0.51	0.39	0.31	0.30	0.31	0.27	0.32