



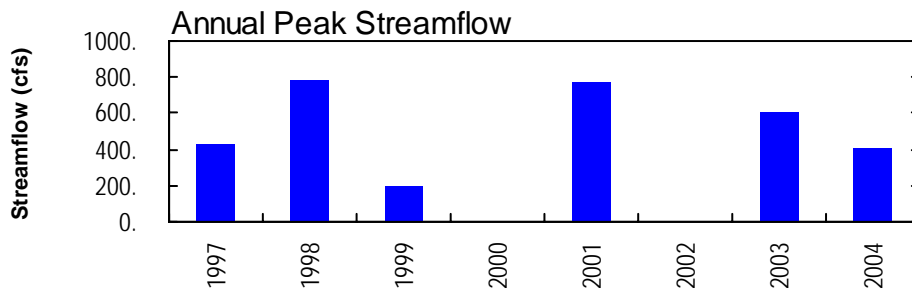
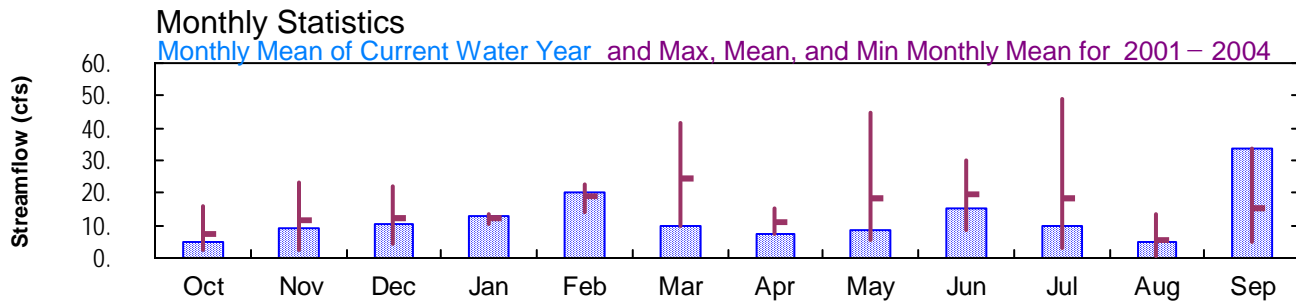
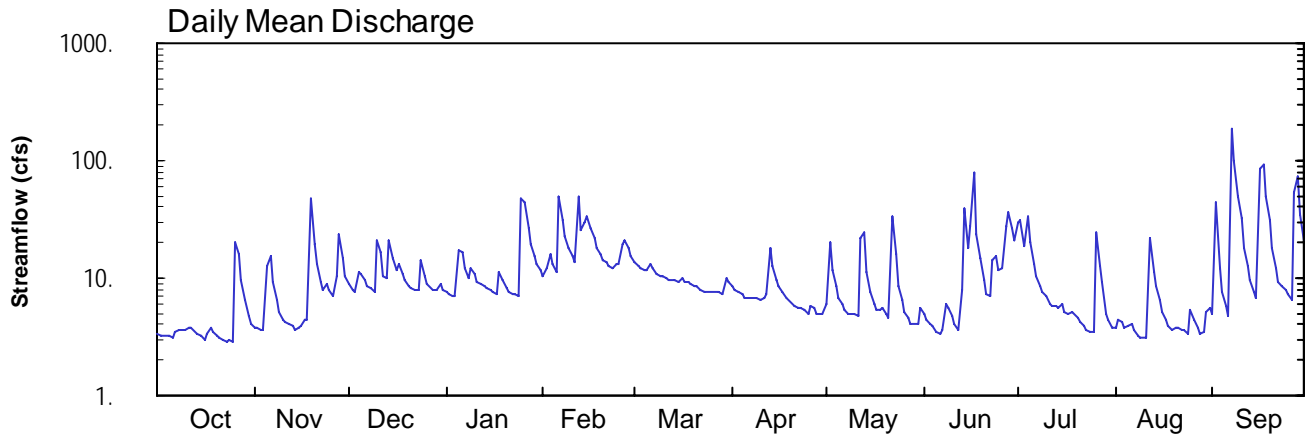
# 2004 Water Year ALTAMAHA RIVER BASIN

## 02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NR LOGANVILLE, GA

Latitude: 33° 49 ' 17"  
Gwinnett County

Longitude: 083° 56 ' 33"  
Datum: 880.00 feet

Hydrologic Unit Code: 03070103  
Drainage Area: 8.15 mi<sup>2</sup>



**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NEAR LOGANVILLE, GA**

**LOCATION.**—Lat 33°49'17", long 83°56'33" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 0307103, at concrete box culvert on Beaver Road, 2.6 miles southwest of Loganville, and 3.4 miles upstream of Big Haynes Creek.

**DRAINAGE AREA.**—8.15 square miles.

**COOPERATION.**—Gwinnett County Department of Public Utilities.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—March 1, 2001 to current year.

**GAGE.**—Satellite telemetry with a water stage recorder and a continuous water-quality monitor. Datum of gage is 880.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good, except for the periods of estimated discharge, which are poor.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—March 1, 2001 to current year.

**GAGE.**—Satellite telemetry with a water stage recorder and a continuous water-quality monitor. Datum of gage is 880.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height, 7.42 feet, September 16; minimum gage-height, 1.28 feet, August 9, 10, 12.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—March 1, 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 02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NR LOGANVILLE,GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 334917 LONGITUDE 0835633 NAD27 DRAINAGE AREA 8.15 CONTRIBUTING DRAINAGE AREA 8.15\* DATUM 880.00 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	3.3	3.8	e9.0	7.7	10	14	8.7	5.9	5.0	30	3.7	4.9
2	3.2	3.7	e8.0	7.4	12	13	7.9	20	4.4	31	4.4	43
3	3.2	3.7	7.7	e7.0	16	12	7.5	12	4.0	18	4.2	12
4	3.2	3.6	11	e7.0	13	12	7.2	8.4	3.9	34	3.8	7.7
5	3.2	13	11	e17	11	12	6.9	6.7	3.5	20	3.9	5.8
6	3.2	16	9.5	16	49	13	6.8	5.9	3.4	13	4.1	4.8
7	3.5	9.1	8.5	12	31	12	6.8	5.4	3.7	10	3.6	183
8	3.7	6.5	8.2	10	23	11	6.8	4.9	5.9	8.6	3.3	100
9	3.6	5.2	7.6	12	18	11	6.7	5.0	5.5	7.6	3.1	50
10	3.7	4.5	21	11	15	10	6.4	4.9	4.8	7.1	3.1	32
11	3.7	4.2	17	9.4	14	10	6.8	4.9	4.1	6.1	3.1	18
12	3.8	4.1	e10	8.9	50	9.8	7.3	22	3.6	5.8	22	13
13	3.5	3.9	e10	8.5	25	9.6	18	24	8.0	5.7	11	9.8
14	3.4	3.7	e21	8.1	29	9.5	12	11	39	5.6	8.5	7.7
15	3.2	3.7	e15	8.0	34	9.4	9.6	7.5	18	6.1	6.5	6.7
16	3.0	3.9	11	7.7	26	10	8.6	6.0	28	5.1	5.1	87
17	3.4	4.4	13	7.3	22	9.4	7.6	5.3	79	5.0	4.4	94
18	3.8	4.5	11	11	18	9.1	6.9	5.4	23	5.2	4.0	49
19	3.5	4.8	9.5	9.5	16	8.9	6.4	5.5	15	4.9	3.6	31
20	3.2	19	8.7	8.3	14	8.5	5.9	4.9	9.7	4.5	3.8	18
21	3.1	13	8.1	7.7	14	8.6	5.8	4.5	7.4	4.2	3.7	12
22	3.0	9.4	7.9	7.5	13	7.9	5.6	33	7.2	3.9	3.7	9.4
23	2.9	e8.0	7.9	7.2	12	7.7	5.5	16	14	3.7	3.6	8.4
24	3.0	e9.0	14	7.1	13	7.7	5.3	8.7	15	3.5	3.4	8.0
25	2.8	e8.0	10	4.8	13	7.7	5.0	6.4	12	3.5	5.4	7.2
26	20	e7.0	9.0	44	19	7.7	5.8	5.1	12	24	4.4	6.4
27	16	e10	8.4	27	21	7.7	5.7	4.5	28	13	3.7	54
28	9.8	e24	7.9	20	18	7.6	5.0	4.1	36	9.2	3.4	72
29	6.5	e15	7.8	15	16	7.4	4.9	4.0	27	5.0	3.5	35
30	4.7	e10	8.7	13	---	10	5.0	4.0	21	4.5	5.2	21
31	4.1	---	8.0	12	---	9.3	---	5.7	---	3.8	5.6	---
TOTAL	144.2	281.9	325.4	402.3	585	303.5	214.4	271.6	451.1	311.6	154.8	1010.8
MEAN	4.65	9.40	10.5	13.0	20.2	9.79	7.15	8.76	15.0	10.1	4.99	33.7
MAX	20	48	21	48	50	14	18	33	79	34	22	183
MIN	2.8	3.6	7.6	7.0	10	7.4	4.9	4.0	3.4	3.5	3.1	4.8
CFSM	0.57	1.15	1.29	1.59	2.48	1.20	0.88	1.08	1.84	1.23	0.61	4.13
IN.	0.66	1.29	1.49	1.84	2.67	1.39	0.98	1.24	2.06	1.42	0.71	4.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	2001	2002	2003	2004
MEAN	7.63	11.8	12.1	12.3
MAX	15.8	23.3	21.8	13.5
(WY)	2003	2003	2003	2003
MIN	2.41	2.67	4.06	10.6
(WY)	2002	2002	2002	2002

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2001 - 2004
ANNUAL TOTAL	7970.8	4456.6	
ANNUAL MEAN	21.8	12.2	18.5
HIGHEST ANNUAL MEAN			24.9
LOWEST ANNUAL MEAN			12.2
HIGHEST DAILY MEAN	337	183	337
LOWEST DAILY MEAN	2.8	2.8	0.50
ANNUAL SEVEN-DAY MINIMUM	3.1	3.1	0.58
MAXIMUM PEAK FLOW		406	772
MAXIMUM PEAK STAGE		7.42	9.10
ANNUAL RUNOFF (CFSM)	2.68	1.49	2.27
ANNUAL RUNOFF (INCHES)	36.38	20.34	30.89
10 PERCENT EXCEEDS	40	23	36
50 PERCENT EXCEEDS	13	7.9	11
90 PERCENT EXCEEDS	4.1	3.7	4.0

e Estimated

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

STATION NUMBER 02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NR LOGANVILLE,GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 334917 LONGITUDE 0835633 NAD27 DRAINAGE AREA 8.15 CONTRIBUTING DRAINAGE AREA 8.15\* DATUM 880.00 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	1.37	1.41	---	1.51	1.60	1.66	1.52	1.42	1.40	1.96	1.34	1.40
2	1.37	1.41	---	1.50	1.64	1.64	1.50	1.77	1.37	1.98	1.37	2.15
3	1.36	1.40	1.51	---	1.74	1.63	1.48	1.61	1.35	1.78	1.36	1.64
4	1.37	1.40	1.61	---	1.67	1.62	1.47	1.51	1.34	2.00	1.34	1.51
5	1.36	1.59	1.61	---	1.62	1.61	1.46	1.45	1.33	1.80	1.34	1.44
6	1.36	1.78	1.57	1.74	2.21	1.65	1.46	1.42	1.32	1.67	1.36	1.39
7	1.39	1.62	1.54	1.64	1.96	1.63	1.46	1.40	1.33	1.60	1.33	4.40
8	1.40	1.54	1.53	1.58	1.84	1.59	1.46	1.38	1.44	1.54	1.31	2.99
9	1.40	1.48	1.51	1.64	1.76	1.58	1.46	1.38	1.42	1.51	1.30	2.27
10	1.40	1.45	1.80	1.60	1.70	1.57	1.45	1.38	1.39	1.49	1.30	2.01
11	1.41	1.43	1.75	1.57	1.66	1.57	1.46	1.38	1.36	1.45	1.30	1.77
12	1.41	1.43	---	1.55	2.24	1.56	1.47	1.68	1.33	1.44	1.76	1.65
13	1.39	1.42	---	1.53	1.88	1.55	1.75	1.85	1.45	1.44	1.62	1.58
14	1.39	1.41	---	1.52	1.94	1.55	1.63	1.59	2.08	1.43	1.54	1.51
15	1.37	1.41	---	1.52	2.01	1.54	1.55	1.48	1.76	1.45	1.47	1.48
16	1.36	1.42	1.63	1.51	1.90	1.56	1.52	1.43	1.92	1.41	1.41	2.77
17	1.39	1.45	1.66	1.50	1.82	1.54	1.49	1.40	2.73	1.41	1.38	2.88
18	1.41	1.45	1.61	1.62	1.75	1.54	1.46	1.40	1.87	1.41	1.35	2.25
19	1.39	2.22	1.57	1.57	1.71	1.53	1.44	1.41	1.71	1.40	1.33	1.98
20	1.38	1.80	1.54	1.53	1.68	1.52	1.42	1.38	1.57	1.38	1.34	1.78
21	1.37	1.67	1.52	1.51	1.66	1.52	1.42	1.36	1.50	1.36	1.34	1.64
22	1.36	1.56	1.52	1.50	1.64	1.50	1.41	1.88	1.49	1.35	1.33	1.56
23	1.35	---	1.52	1.49	1.63	1.49	1.41	1.72	1.67	1.33	1.33	1.53
24	1.36	---	1.69	1.49	1.65	1.49	1.40	1.54	1.72	1.32	1.32	1.52
25	1.35	---	1.60	2.18	1.65	1.49	1.39	1.46	1.63	1.32	1.40	1.49
26	1.72	---	1.55	2.18	1.78	1.49	1.42	1.41	1.65	1.86	1.37	1.46
27	1.79	---	1.53	1.93	1.81	1.49	1.41	1.38	1.86	1.66	1.34	2.25
28	1.65	---	1.52	1.81	1.76	1.49	1.38	1.36	2.06	1.55	1.32	2.59
29	1.54	---	1.51	1.72	1.70	1.48	1.38	1.35	1.92	1.41	1.32	2.06
30	1.46	---	1.54	1.67	---	1.56	1.38	1.35	1.83	1.38	1.38	1.83
31	1.43	---	1.52	1.63	---	1.54	---	1.43	---	1.34	1.42	---
MEAN	1.42	---	---	---	1.78	1.55	1.46	1.48	1.63	1.53	1.38	1.96
MAX	1.79	---	---	---	2.24	1.66	1.75	1.88	2.73	2.00	1.76	4.40
MIN	1.35	---	---	---	1.60	1.48	1.38	1.35	1.32	1.32	1.30	1.39

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

STATION NUMBER 02207400 BRUSHY FORK CREEK AT BEAVER ROAD, NR LOGANVILLE,GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 334917 LONGITUDE 0835633 NAD27 DRAINAGE AREA 8.15 CONTRIBUTING DRAINAGE AREA 8.15\* DATUM 880.00 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	0.00	0.00	0.00	0.43	0.00	1.18	0.00	1.43
2	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.57	0.00	0.10	0.00	0.27
3	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.44	0.00	0.01	0.00	0.00	0.00	0.00	0.63	0.00	0.00
5	0.00	1.19	0.01	0.66	0.02	0.00	0.00	0.00	0.00	0.01	0.21	0.00
6	0.04	0.05	0.00	0.00	1.15	0.14	0.00	0.00	0.00	0.00	0.00	0.22
7	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.01	0.00	4.24
8	0.07	0.00	0.00	0.05	0.00	0.00	0.03	0.30	0.03	0.00	0.00	0.03
9	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.09	0.22	0.15	0.00	0.00
10	0.05	0.00	0.80	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.03	0.00	0.00	0.00	0.18	0.00	0.07	0.02	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.97	0.00	0.34	0.80	0.18	0.07	1.24	0.00
13	0.00	0.00	0.48	0.00	0.00	0.00	0.38	0.00	1.09	0.00	0.00	0.00
14	0.01	0.00	0.26	0.00	0.53	0.00	0.00	0.00	1.40	0.33	0.00	0.00
15	0.00	0.00	0.01	0.00	0.42	0.00	0.00	0.00	0.20	0.00	0.00	0.00
16	0.00	0.00	0.05	0.00	0.00	0.09	0.00	0.00	1.30	0.00	0.00	2.96
17	0.18	0.10	0.15	0.20	0.00	0.00	0.00	---	0.01	0.07	0.00	0.20
18	0.00	0.48	0.00	0.16	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
19	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.13	0.00
21	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.06	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.60	0.00	0.03	0.00
23	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00
24	0.00	0.19	0.00	0.00	0.16	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	1.88	0.18	0.00	0.00	0.00	0.09	0.81	0.86	0.00
26	1.99	0.01	0.00	0.02	0.09	0.00	0.18	0.00	0.00	0.23	0.00	0.00
27	0.01	0.64	0.00	0.02	0.53	0.00	0.00	0.00	0.90	0.19	0.00	2.39
28	0.00	0.32	0.01	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.02
29	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.29	0.16	0.00
30	0.00	0.00	0.07	0.00	---	0.32	0.03	0.00	0.56	0.02	1.28	0.00
31	0.00	---	0.00	0.00	---	0.04	---	0.38	---	0.00	0.00	---
TOTAL	2.40	3.87	2.82	3.24	4.78	0.64	1.03	---	7.80	4.09	3.91	11.76