



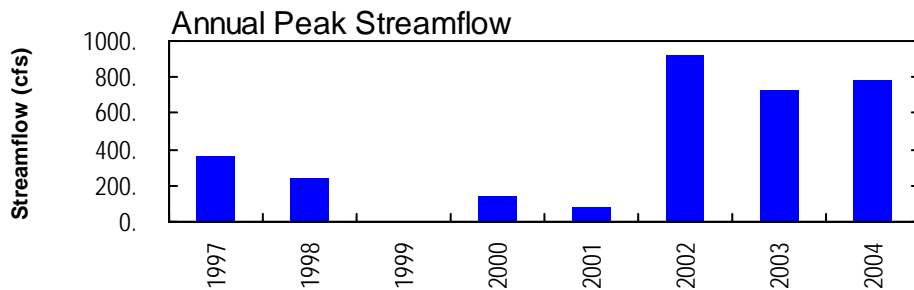
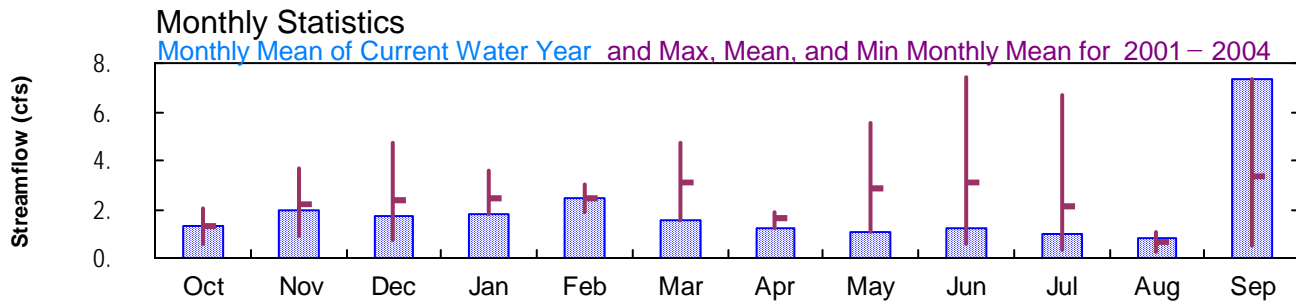
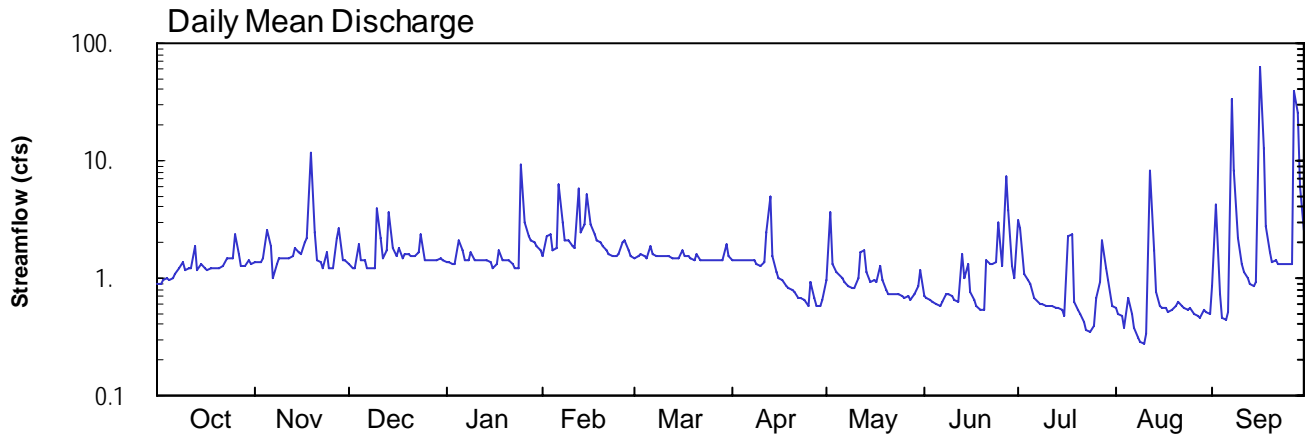
# 2004 Water Year ALTAMAHA RIVER BASIN

## 02217274 WHEELER CREEK AT BILL CHEEK ROAD, NEAR AUBURN, GA

Latitude: 34° 04 ' 56"  
Gwinnett County

Longitude: 083° 51 ' 17"  
Datum: 885.00 feet

Hydrologic Unit Code: 03070101  
Drainage Area: 1.31 mi<sup>2</sup>



**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02217274 WHEELER CREEK AT BILL CHEEK ROAD, NEAR AUBURN, GA**

**LOCATION.**—Lat 34°04'56", long 83°51'17" referenced to North American Datum (NAD) of 1927, Jackson-Barrow County line, Hydrologic Unit 03070101, at concrete box culvert on Bill Cheek Road.

**DRAINAGE AREA.**—1.31 square miles (revised).

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

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—June 29, 2001 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and continuous water-quality monitor. Datum of gage is 885.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good, except for periods of estimated discharges and those above 68 cfs, which are poor.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—June 29, 2001 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and continuous water-quality monitor. Datum of gage is 885.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 6.46 feet, September 16; minimum gage-height recorded, 1.19 feet, May 28, June 19, 20, July 23, 24, August 4, 7-12.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—June 29, 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 02217274 WHEELER CREEK AT BILL CHEEK ROAD, NEAR AUBURN, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340456 LONGITUDE 0835117 NAD27 DRAINAGE AREA 1.31\* CONTRIBUTING DRAINAGE AREA DATUM 885.00 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	0.90	1.4	1.3	1.4	1.6	e1.5	1.4	0.96	0.70	3.1	0.55	0.85
2	0.90	1.4	1.2	1.4	2.3	e1.5	1.4	3.6	0.68	2.7	0.49	4.3
3	0.95	1.4	1.2	1.3	2.3	1.6	1.4	1.3	0.66	1.1	0.47	0.72
4	0.99	1.5	2.0	1.3	1.7	1.5	1.4	1.1	0.63	0.97	0.37	0.46
5	0.97	2.5	1.4	2.1	1.8	1.5	1.4	1.1	0.60	0.89	0.68	0.43
6	1.0	1.8	1.4	1.7	6.3	1.9	1.4	0.99	0.57	0.69	0.50	0.51
7	1.1	1.0	1.2	1.4	3.0	1.6	1.4	0.92	0.63	0.65	0.37	34
8	1.2	1.3	1.2	1.4	2.1	1.6	1.4	0.87	0.74	0.61	0.31	8.3
9	1.3	1.5	1.2	1.7	2.1	1.6	1.3	0.83	0.73	0.61	0.28	2.2
10	1.2	1.5	4.0	1.4	1.9	1.6	1.3	0.82	0.70	0.58	0.28	1.3
11	1.2	1.5	2.2	1.4	1.8	1.6	1.4	0.98	0.64	0.57	0.34	1.1
12	1.2	1.5	1.5	1.4	5.7	1.5	2.4	1.6	0.63	0.59	8.3	0.99
13	1.8	1.5	1.7	1.4	2.5	1.5	5.0	1.7	1.6	0.57	1.7	0.90
14	1.2	1.8	3.6	1.4	2.9	1.5	1.5	1.1	1.0	0.56	0.77	0.86
15	1.3	1.7	1.8	1.4	5.1	1.5	1.1	0.93	1.3	0.54	0.58	0.91
16	1.2	1.6	1.6	1.2	2.9	1.7	1.0	0.98	0.75	0.48	0.56	63
17	1.2	2.0	1.8	1.3	2.4	1.5	0.96	0.93	0.65	2.3	0.55	13
18	1.2	2.2	1.5	1.7	2.1	1.5	0.86	1.3	0.59	2.3	0.51	2.7
19	1.2	1.1	1.6	1.4	2.0	1.5	0.81	0.97	0.54	0.63	0.54	1.6
20	1.2	2.5	1.6	1.4	1.9	1.4	0.80	0.80	0.54	0.53	0.58	1.4
21	1.2	1.4	1.6	1.4	1.8	1.6	0.75	0.74	1.4	0.50	0.64	e1.4
22	1.3	1.4	1.6	1.3	1.6	1.4	0.69	0.74	1.3	0.43	0.57	e1.3
23	1.5	1.2	1.7	1.2	1.6	1.4	0.67	e0.74	1.3	0.36	0.57	e1.3
24	1.5	1.6	2.4	1.2	1.6	1.4	0.64	0.74	1.3	0.35	0.54	1.3
25	1.5	1.2	1.4	9.1	1.6	1.4	0.58	0.71	3.0	0.39	0.56	1.3
26	2.3	1.2	1.4	e3.0	2.0	1.4	0.94	0.69	1.3	0.68	0.49	1.3
27	1.6	2.2	1.4	e2.3	2.1	1.4	0.66	0.69	7.3	0.92	0.48	39
28	e1.3	2.7	1.4	2.1	1.7	1.4	0.59	0.66	3.8	2.1	0.46	25
29	1.2	1.4	1.4	2.0	1.6	1.4	0.59	0.74	1.3	1.2	0.54	6.1
30	e1.4	1.4	1.5	1.9	---	2.0	0.66	0.84	1.0	0.98	0.52	2.6
31	1.3	---	1.4	1.7	---	1.5	---	1.2	---	0.58	0.50	---
TOTAL	39.31	58.3	52.2	56.3	70.0	47.4	36.40	32.27	37.88	29.46	24.60	220.13
MEAN	1.27	1.94	1.68	1.82	2.41	1.53	1.21	1.04	1.26	0.95	0.79	7.34
MAX	2.3	11	4.0	9.1	6.3	2.0	5.0	3.6	7.3	3.1	8.3	63
MIN	0.90	1.0	1.2	1.2	1.6	1.4	0.58	0.66	0.54	0.35	0.28	0.43
CFSM	0.97	1.48	1.29	1.39	1.84	1.17	0.93	0.79	0.96	0.73	0.61	5.60
IN.	1.12	1.66	1.48	1.60	1.99	1.35	1.03	0.92	1.08	0.84	0.70	6.25

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

	2001	2002	2003	2004
MEAN	1.31	2.17	2.37	2.48
MAX	2.06	3.69	4.70	3.57
(WY)	2003	2003	2003	2003
MIN	0.60	0.86	0.71	1.82
(WY)	2002	2002	2002	2004

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2001 - 2004
ANNUAL TOTAL	1170.74	704.25	
ANNUAL MEAN	3.21	1.92	2.42
HIGHEST ANNUAL MEAN			3.67
LOWEST ANNUAL MEAN			1.67
HIGHEST DAILY MEAN	80	63	80
LOWEST DAILY MEAN	0.65	0.28	0.16
ANNUAL SEVEN-DAY MINIMUM	0.67	0.39	0.19
MAXIMUM PEAK FLOW		780	928
MAXIMUM PEAK STAGE		6.46	7.18
ANNUAL RUNOFF (CFSM)	2.45	1.47	1.85
ANNUAL RUNOFF (INCHES)	33.25	20.00	25.11
10 PERCENT EXCEEDS	4.3	2.3	3.7
50 PERCENT EXCEEDS	1.7	1.3	1.3
90 PERCENT EXCEEDS	0.89	0.57	0.48

e Estimated  
 a Also Aug 10

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

STATION NUMBER 02217274 WHEELER CREEK AT BILL CHEEK ROAD, NEAR AUBURN, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340456 LONGITUDE 0835117 NAD27 DRAINAGE AREA 1.31\* CONTRIBUTING DRAINAGE AREA DATUM 885.00 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	1.25	1.29	1.28	1.28	1.30	---	1.29	1.28	1.22	1.36	1.21	1.24
2	1.25	1.29	1.27	1.28	1.34	---	1.29	1.41	1.22	1.37	1.21	1.42
3	1.26	1.29	1.27	1.28	1.35	1.30	1.29	1.27	1.21	1.26	1.21	1.23
4	1.26	1.30	1.33	1.27	1.31	1.30	1.28	1.26	1.21	1.25	1.20	1.21
5	1.26	1.34	1.29	1.33	1.31	1.30	1.28	1.25	1.21	1.25	1.23	1.21
6	1.27	1.32	1.28	1.31	1.52	1.32	1.28	1.25	1.21	1.24	1.22	1.21
7	1.27	1.27	1.27	1.28	1.40	1.30	1.28	1.24	1.21	1.23	1.20	1.94
8	1.28	1.29	1.27	1.28	1.34	1.30	1.28	1.24	1.22	1.23	1.20	1.59
9	1.29	1.30	1.27	1.31	1.33	1.30	1.27	1.24	1.22	1.23	1.20	1.35
10	1.28	1.30	1.44	1.29	1.32	1.30	1.27	1.23	1.22	1.22	1.20	1.28
11	1.28	1.30	1.34	1.28	1.32	1.30	1.28	1.25	1.21	1.22	1.20	1.27
12	1.28	1.31	1.30	1.28	1.51	1.30	1.33	1.29	1.21	1.22	1.49	1.26
13	1.33	1.31	1.31	1.28	1.37	1.29	1.50	1.30	1.29	1.22	1.31	1.25
14	1.28	1.33	1.43	1.28	1.40	1.29	1.32	1.25	1.25	1.22	1.24	1.25
15	1.29	1.32	1.31	1.28	1.49	1.30	1.29	1.24	1.27	1.22	1.22	1.25
16	1.28	1.32	1.30	1.27	1.40	1.31	1.28	1.25	1.23	1.21	1.22	1.93
17	1.28	1.33	1.32	1.27	1.36	1.30	1.27	1.24	1.21	1.31	1.21	1.70
18	1.28	1.32	1.29	1.31	1.34	1.30	1.27	1.27	1.21	1.35	1.21	1.38
19	1.28	1.62	1.30	1.28	1.33	1.29	1.26	1.24	1.20	1.23	1.21	1.31
20	1.28	1.36	1.30	1.28	1.32	1.29	1.26	1.23	1.20	1.21	1.22	1.28
21	1.28	1.29	1.30	1.28	1.31	1.30	1.26	1.23	1.27	1.21	1.23	1.31
22	1.29	1.28	1.30	1.28	1.30	1.29	1.26	1.23	1.27	1.21	1.22	1.35
23	1.30	1.27	1.31	1.27	1.30	1.29	1.25	---	1.27	1.20	1.22	1.32
24	1.30	1.30	1.35	1.27	1.30	1.29	1.25	1.22	1.27	1.20	1.21	1.28
25	1.31	1.27	1.29	1.60	1.30	1.29	1.25	1.22	1.37	1.20	1.22	1.28
26	1.35	1.27	1.28	---	1.33	1.29	1.27	1.22	1.27	1.23	1.21	1.28
27	1.31	1.33	1.28	---	1.33	1.29	1.25	1.22	1.45	1.23	1.21	1.77
28	---	1.38	1.28	1.34	1.31	1.29	1.25	1.21	1.44	1.32	1.21	1.92
29	1.28	1.29	1.28	1.33	1.30	1.29	1.25	1.22	1.27	1.26	1.21	1.58
30	---	1.28	1.29	1.32	---	1.33	1.25	1.23	1.26	1.25	1.22	1.45
31	1.29	---	1.28	1.31	---	1.30	---	1.26	---	1.22	1.21	---
MEAN	---	1.32	1.30	---	1.35	---	1.28	---	1.25	1.24	1.23	1.40
MAX	---	1.62	1.44	---	1.52	---	1.50	---	1.45	1.37	1.49	1.94
MIN	---	1.27	1.27	---	1.30	---	1.25	---	1.20	1.20	1.20	1.21

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 LATITUDE 340456 LONGITUDE 0835117 NAD27 DRAINAGE AREA 1.31\* CONTRIBUTING DRAINAGE AREA DATUM 885.00 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	0.30	0.00	0.61	0.03	0.32
2	0.00	0.00	0.00	0.00	0.53	---	0.00	0.83	0.00	0.05	0.00	0.27
3	0.00	0.00	0.04	0.00	0.07	0.01	0.00	0.01	0.00	0.00	0.00	0.00
4	0.00	0.01	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
5	0.00	1.07	0.00	0.49	0.08	0.00	0.00	0.00	0.00	0.00	0.35	0.00
6	0.00	0.00	0.00	0.00	0.87	0.21	0.00	0.00	0.00	0.00	0.00	0.05
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	4.48
8	0.06	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.13
9	0.05	0.00	0.00	0.23	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.90	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.04	0.00	0.00	0.00	0.06	0.00	0.16	0.20	0.00	0.00	0.00	0.00
12	0.01	0.00	0.00	0.00	0.63	0.00	0.77	0.95	0.62	0.03	1.87	0.00
13	0.00	0.00	0.37	0.00	0.21	0.00	0.50	0.04	0.21	0.00	0.00	0.00
14	0.04	0.00	0.38	0.00	0.18	0.00	0.01	0.00	0.23	0.13	0.00	0.00
15	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.11	0.00	0.00	0.00
16	0.00	0.00	0.03	0.00	0.43	0.16	0.00	0.05	0.03	0.00	0.00	3.71
17	0.00	0.33	0.14	0.10	0.00	0.01	0.00	0.00	0.03	0.86	0.00	0.17
18	0.00	0.91	0.02	0.24	0.00	0.00	0.00	0.34	0.02	0.01	0.00	0.00
19	0.00	1.11	0.01	0.00	0.00	0.00	0.00	0.00	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	0.16	0.00
21	0.00	0.00	0.00	0.00	0.03	0.08	0.00	0.00	0.55	0.00	0.02	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00
23	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00
24	0.00	0.24	0.27	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
25	0.00	0.00	0.11	1.53	0.08	0.00	0.00	0.00	0.72	0.01	0.00	0.00
26	0.79	0.00	0.00	---	0.05	0.00	0.28	0.00	0.07	0.24	0.00	0.00
27	0.01	0.67	0.00	---	0.27	0.00	0.00	0.00	1.34	0.88	0.00	2.82
28	0.00	0.18	0.01	0.00	0.10	0.00	0.00	0.03	0.12	0.08	0.00	0.01
29	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.86	0.04	0.00
30	0.00	0.00	0.09	0.00	---	0.45	0.06	0.00	0.15	0.01	0.01	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.40	---	0.00	0.00	---
TOTAL	1.00	4.52	3.08	---	3.78	---	1.78	3.17	5.43	3.88	2.48	11.96