



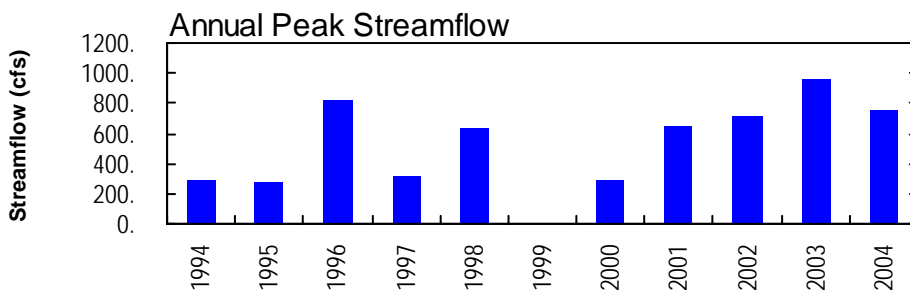
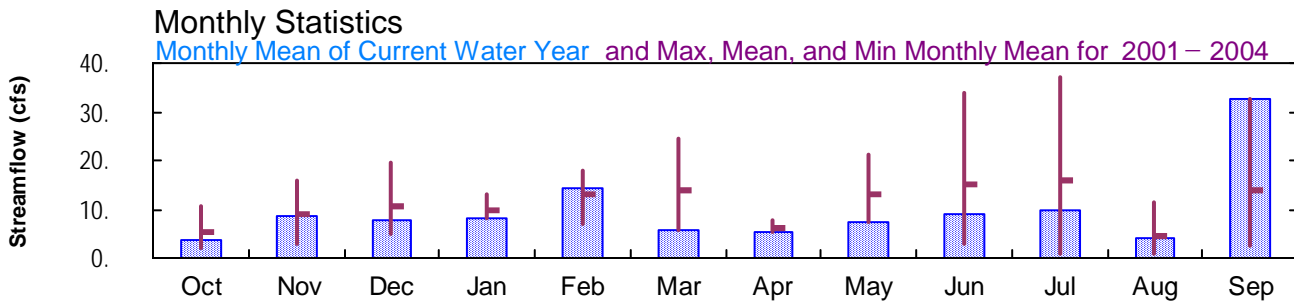
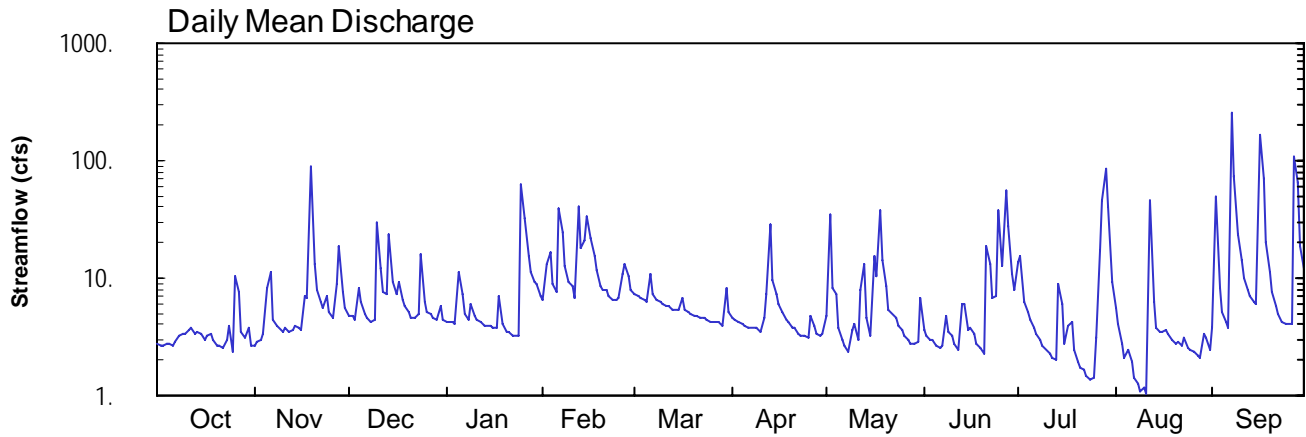
# 2004 Water Year ALTAMAHA RIVER BASIN

## 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA

Latitude: 34°00'37"  
Gwinnett County

Longitude: 083°53'39"  
Datum: 935.00 feet

Hydrologic Unit Code: 03070101  
Drainage Area: 5.68 mi<sup>2</sup>



**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA**

**LOCATION.**—Lat 34°00'37", long 83°53'39" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03070101, 3.0 miles north of Dacula, and 2.5 miles west of Auburn.

**DRAINAGE AREA.**—5.68 square miles (revised).

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

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—July 13, 2001 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 935.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good, except period of estimated discharges and those discharges above 640 cfs, which are fair.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—Water years 1970-1977 (annual maximum), August 1977 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 935.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 5.90 feet, September 16; minimum gage-height recorded, 0.46 feet, July 23-25.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—August 21, 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 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340037 LONGITUDE 0835339 NAD27 DRAINAGE AREA 5.68\* CONTRIBUTING DRAINAGE AREA DATUM 935.00 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	2.7	2.7	4.8	4.2	6.4	7.4	4.6	4.7	3.7	14	5.6	3.8
2	2.7	2.9	4.8	4.2	13	6.9	4.4	34	3.2	15	4.1	49
3	2.6	3.0	4.4	4.2	17	6.9	4.2	8.2	3.0	6.4	2.8	8.1
4	2.7	3.3	8.2	4.1	8.7	6.4	4.1	7.3	3.0	5.1	2.1	5.2
5	2.7	8.3	6.3	11	7.6	6.4	3.9	3.7	2.7	4.3	2.4	4.3
6	2.7	11	4.9	7.3	39	11	3.8	3.0	2.5	3.7	1.9	3.8
7	2.8	4.4	4.5	4.9	24	7.4	3.8	2.6	2.7	e3.4	1.4	256
8	3.2	3.9	4.2	4.4	13	6.6	3.8	2.4	4.8	e3.0	1.2	73
9	3.4	3.7	4.4	5.9	9.3	6.4	3.7	3.7	3.5	2.7	1.1	23
10	3.4	3.5	30	4.7	8.6	6.0	3.5	4.0	3.2	2.5	1.2	14
11	3.7	3.7	12	4.3	6.9	5.9	4.5	2.9	2.7	2.3	1.0	10
12	3.7	3.5	7.5	4.2	41	5.8	7.4	7.9	2.4	2.1	46	7.9
13	3.4	3.6	7.3	4.0	18	5.4	29	13	6.1	2.1	6.3	7.0
14	3.5	3.9	23	3.8	21	5.4	9.7	4.5	5.9	8.9	3.8	6.3
15	3.3	3.8	9.4	3.9	34	5.4	7.2	3.3	3.7	6.0	3.5	5.9
16	3.0	3.6	7.2	3.8	22	6.8	5.9	15	3.7	2.7	3.5	163
17	3.2	7.0	9.4	3.8	16	5.5	5.1	10	3.4	3.9	3.7	69
18	3.3	6.8	6.4	7.0	12	5.1	4.5	37	2.8	4.3	3.4	20
19	3.0	89	5.8	4.0	8.6	4.9	4.2	14	2.6	2.4	3.0	11
20	2.7	13	5.1	3.5	8.0	4.7	3.8	8.7	2.3	1.9	2.8	7.5
21	2.7	7.8	4.6	3.4	8.0	4.8	3.7	5.4	18	1.8	2.8	5.9
22	2.5	6.3	4.6	3.3	7.0	4.6	3.4	5.0	13	1.6	2.7	4.9
23	3.0	5.5	4.9	3.2	6.6	4.6	3.2	4.6	6.9	1.5	3.1	4.3
24	3.9	7.0	16	3.2	6.6	4.4	3.2	3.9	7.1	1.4	2.5	4.1
25	2.3	5.1	6.2	62	6.7	4.2	3.1	3.6	37	1.4	2.5	4.1
26	11	4.5	5.2	33	11	4.2	4.7	3.2	12	3.2	2.4	4.0
27	7.7	9.1	4.9	15	13	4.2	4.0	2.9	55	17	2.2	108
28	3.5	19	4.6	11	10	4.2	3.3	2.8	28	46	2.1	65
29	3.1	7.6	4.4	9.2	8.1	4.0	3.2	2.8	11	86	3.3	18
30	3.8	5.7	5.7	8.8	---	8.3	3.4	2.9	7.9	41	3.1	12
31	2.6	---	4.4	7.1	---	5.2	---	6.7	---	9.1	2.4	---
TOTAL	107.8	262.2	235.1	256.4	411.1	179.0	156.3	233.7	263.8	306.7	129.9	978.1
MEAN	3.48	8.74	7.58	8.27	14.2	5.77	5.21	7.54	8.79	9.89	4.19	32.6
MAX	11	89	30	62	41	11	29	37	55	86	46	256
MIN	2.3	2.7	4.2	3.2	6.4	4.0	3.1	2.4	2.3	1.4	1.0	3.8
MED	3.1	4.8	5.2	4.2	10	5.4	3.9	4.5	3.7	3.4	2.8	8.0
AC-FT	214	520	466	509	815	355	310	464	523	608	258	1940

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

	2001	2002	2003	2004
MEAN	5.33	9.06	10.7	9.80
MAX	10.4	15.8	19.5	12.9
(WY)	2003	2003	2003	2003
MIN	2.08	2.68	4.93	8.27
(WY)	2002	2002	2002	2002

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2001 - 2004
ANNUAL TOTAL	5764.9	3520.1	
ANNUAL MEAN	15.8	9.62	11.3
HIGHEST ANNUAL MEAN			18.0 2003
LOWEST ANNUAL MEAN			6.25 2002
HIGHEST DAILY MEAN	383 Jul 1	256 Sep 7	383 Jul 1 2003
LOWEST DAILY MEAN	2.3 Oct 25	1.0 Aug 11	0.28 Aug 13 2002
ANNUAL SEVEN-DAY MINIMUM	2.7 Sep 30	1.5 Aug 5	0.31 Aug 9 2002
MAXIMUM PEAK FLOW		747 Sep 16	962 Jul 1 2003
MAXIMUM PEAK STAGE		5.90 Sep 16	6.93 Jul 1 2003
ANNUAL RUNOFF (AC-FT)	11430	6980	8170
10 PERCENT EXCEEDS	28	16	23
50 PERCENT EXCEEDS	7.7	4.5	5.4
90 PERCENT EXCEEDS	3.7	2.7	1.6

e Estimated

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

STATION NUMBER 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340037 LONGITUDE 0835339 NAD27 DRAINAGE AREA 5.68\* CONTRIBUTING DRAINAGE AREA DATUM 935.00 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	0.56	0.56	0.62	0.60	0.65	0.67	0.61	0.61	0.56	0.72	0.62	0.53
2	0.56	0.57	0.62	0.60	0.73	0.66	0.61	0.96	0.55	0.75	0.59	1.03
3	0.56	0.57	0.60	0.60	0.79	0.66	0.60	0.68	0.54	0.63	0.56	0.63
4	0.56	0.58	0.68	0.60	0.69	0.65	0.60	0.67	0.54	0.60	0.53	0.57
5	0.56	0.66	0.65	0.70	0.67	0.65	0.59	0.59	0.53	0.58	0.55	0.55
6	0.56	0.73	0.62	0.67	1.00	0.72	0.59	0.56	0.53	0.57	0.53	0.54
7	0.57	0.62	0.61	0.62	0.88	0.67	0.59	0.55	0.53	---	0.51	2.61
8	0.58	0.60	0.60	0.61	0.75	0.65	0.59	0.54	0.59	---	0.50	1.27
9	0.59	0.60	0.60	0.64	0.70	0.65	0.59	0.56	0.56	0.53	0.50	0.83
10	0.59	0.59	0.92	0.61	0.69	0.64	0.58	0.59	0.55	0.52	0.51	0.72
11	0.60	0.60	0.74	0.60	0.66	0.64	0.61	0.56	0.53	0.52	0.51	0.66
12	0.60	0.59	0.67	0.60	1.03	0.64	0.64	0.63	0.52	0.51	1.04	0.63
13	0.59	0.59	0.66	0.59	0.81	0.63	0.98	0.74	0.62	0.51	0.67	0.61
14	0.59	0.60	0.87	0.59	0.84	0.63	0.71	0.61	0.61	0.60	0.59	0.60
15	0.58	0.60	0.70	0.59	0.97	0.63	0.67	0.57	0.56	0.61	0.56	0.59
16	0.58	0.59	0.67	0.59	0.86	0.66	0.64	0.71	0.57	0.53	0.55	1.80
17	0.58	0.66	0.70	0.59	0.78	0.63	0.62	0.70	0.56	0.56	0.54	1.25
18	0.58	0.65	0.65	0.66	0.73	0.62	0.61	0.94	0.54	0.58	0.53	0.82
19	0.57	1.43	0.64	0.60	0.69	0.62	0.60	0.74	0.53	0.52	0.51	0.72
20	0.56	0.75	0.62	0.58	0.68	0.61	0.59	0.67	0.52	0.50	0.50	0.67
21	0.56	0.68	0.61	0.58	0.68	0.62	0.59	0.61	0.73	0.49	0.51	0.64
22	0.56	0.65	0.61	0.57	0.66	0.61	0.58	0.60	0.72	0.49	0.50	0.62
23	0.57	0.63	0.62	0.57	0.65	0.61	0.57	0.59	0.64	0.48	0.51	0.60
24	0.60	0.66	0.78	0.57	0.65	0.60	0.57	0.57	0.63	0.47	0.50	0.60
25	0.55	0.62	0.65	1.18	0.66	0.60	0.57	0.56	0.97	0.47	0.49	0.60
26	0.68	0.61	0.62	0.97	0.72	0.60	0.61	0.55	0.72	0.54	0.49	0.60
27	0.67	0.67	0.62	0.78	0.75	0.60	0.59	0.54	1.07	0.65	0.48	1.49
28	0.59	0.82	0.61	0.73	0.71	0.60	0.57	0.54	0.89	1.03	0.48	1.25
29	0.58	0.67	0.61	0.70	0.68	0.59	0.57	0.54	0.70	1.29	0.51	0.82
30	0.60	0.64	0.63	0.69	---	0.68	0.58	0.54	0.66	1.01	0.52	0.74
31	0.56	---	0.61	0.66	---	0.63	---	0.62	---	0.68	0.49	---
MEAN	0.58	0.66	0.66	0.65	0.75	0.63	0.61	0.63	0.63	---	0.54	0.85
MAX	0.68	1.43	0.92	1.18	1.03	0.72	0.98	0.96	1.07	---	1.04	2.61
MIN	0.55	0.56	0.60	0.57	0.65	0.59	0.57	0.54	0.52	---	0.48	0.53

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STATION NUMBER 02218565 APALACHEE RIVER AT FENCE ROAD, NEAR DACULA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340037 LONGITUDE 0835339 NAD27 DRAINAGE AREA 5.68\* CONTRIBUTING DRAINAGE AREA DATUM 935.00 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	0.33	0.00	0.59	0.00	0.48
2	0.00	0.00	0.00	0.00	0.57	0.03	0.00	1.33	0.00	0.04	0.00	2.15
3	0.00	0.00	0.03	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
5	0.00	1.14	0.03	0.55	0.06	0.00	0.00	0.00	0.00	0.00	0.40	0.00
6	0.00	0.04	0.00	0.00	0.84	0.40	0.00	0.00	0.00	---	0.00	0.06
7	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.25	---	0.00	5.49
8	0.06	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.43	---	0.00	0.10
9	0.00	0.00	0.00	0.21	0.00	0.01	0.00	0.00	0.02	---	0.00	0.00
10	0.00	0.00	0.96	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	---	0.00	0.00	0.00	0.10	0.00	0.16	0.33	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.88	0.00	0.34	0.26	0.12	0.00	2.01	0.00
13	---	0.00	0.46	0.00	0.00	0.00	0.35	0.09	0.39	0.00	0.00	0.00
14	0.07	0.00	0.28	0.00	0.43	0.00	0.66	1.13	0.08	0.68	0.00	0.00
15	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.17	0.01	0.00	0.00
16	0.00	0.01	0.01	0.00	0.00	0.13	0.00	0.52	0.11	0.00	0.00	3.23
17	0.01	0.24	0.21	0.11	0.00	0.00	0.00	0.00	0.03	0.64	0.00	0.21
18	0.00	0.87	0.01	0.27	0.00	0.00	0.00	0.95	0.05	0.01	0.00	0.00
19	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
21	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	1.20	0.00	0.01	0.00
22	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.28	0.14	0.00	0.00	0.00
23	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00
24	0.00	0.26	0.01	0.00	0.04	0.00	0.00	0.00	0.06	0.00	0.00	0.00
25	0.00	0.00	0.00	2.06	0.14	0.00	0.00	0.00	0.82	0.11	0.00	0.00
26	0.91	0.00	0.00	0.00	0.06	0.00	0.27	0.00	0.05	0.27	0.00	0.00
27	0.03	0.56	0.00	0.07	0.57	0.00	0.00	0.00	1.05	2.72	0.00	3.24
28	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.01	0.00	0.01
29	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.01	2.50	0.64	0.00
30	0.00	0.00	0.12	0.00	---	0.41	0.05	0.00	0.08	0.07	0.02	0.00
31	0.00	---	0.00	0.00	---	0.06	---	0.42	---	0.00	0.00	---
TOTAL	---	4.86	3.24	3.35	4.34	1.07	1.83	5.73	5.50	---	3.16	14.97