



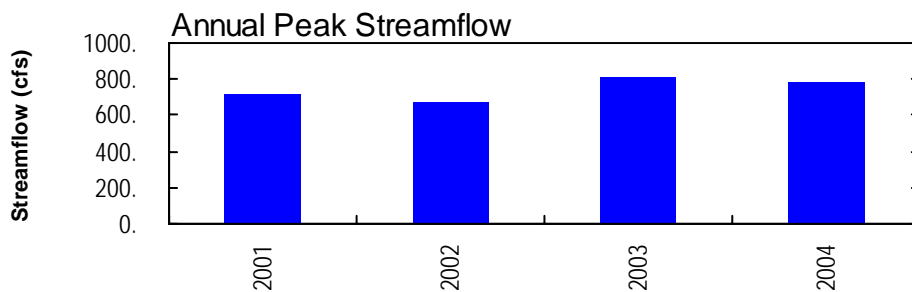
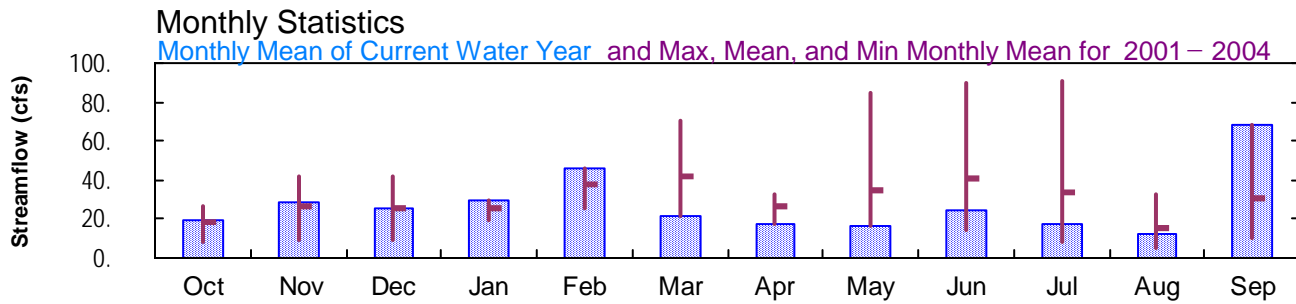
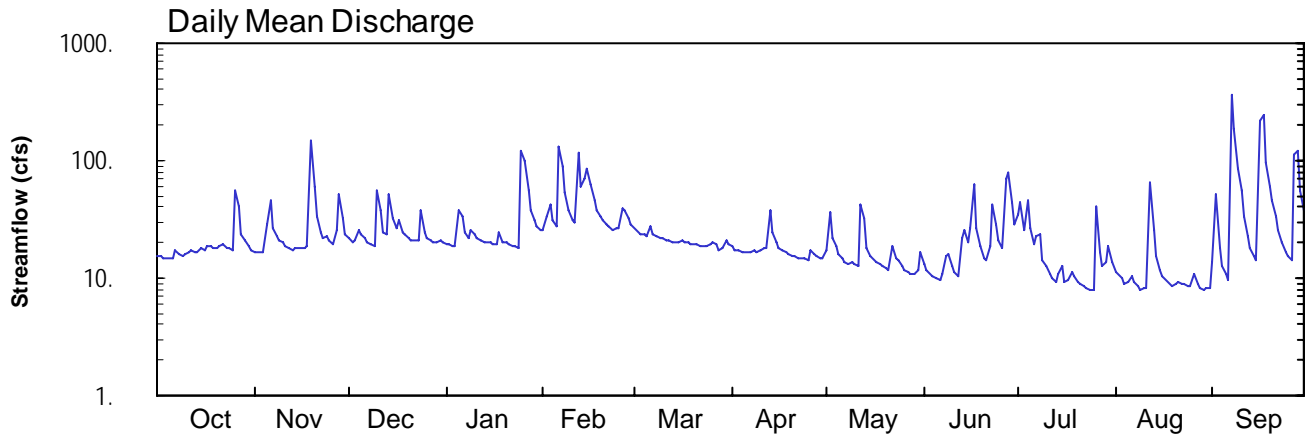
2004 Water Year  
ALTAMAHA RIVER BASIN

**02207385 BIG HAYNES CREEK AT LENORA ROAD, NR SNELLVILLE, GA**

Latitude: 33° 48 ' 54"  
Gwinnett County

Longitude: 083° 59 ' 25"  
Datum: 860.00 feet

Hydrologic Unit Code: 03070103  
Drainage Area: 17.3 mi<sup>2</sup>



**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02207385 BIG HAYNES CREEK AT LENORA ROAD, NEAR SNELLVILLE, GA**

**LOCATION.**—Lat 33°48'54", long 83°59'25" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03070103, 30.0 feet upstream of bridge on County Road 368, and 5.5 miles southeast of Snellville.

**DRAINAGE AREA.**—17.3 square miles.

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

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—February 7, 2001 to current year.

**REVISION.**—WDR GA-04-01: daily streamflow for 2001 and 2002 water years.

**GAGE.**—Satellite telemetry with a water stage recorder and a continuous water-quality monitor. Datum of gage is 860 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

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

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—February 7, 2001 to current year.

**GAGE.**—Satellite telemetry with a water stage recorder and a continuous water-quality monitor. Datum of gage is 860 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 10.58 feet, September 16; minimum gage-height recorded, 2.82 feet, July 24, August 31, September 1.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—February 7, 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 02207385 BIG HAYNES CREEK AT LENORA ROAD, NR SNELLVILLE, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 334854 LONGITUDE 0835925 NAD27 DRAINAGE AREA 17.3 CONTRIBUTING DRAINAGE AREA 17.3\* DATUM 860.00 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	16	17	22	19	25	26	19	e17	13	34	11	13
2	15	17	21	19	34	24	18	e36	12	44	11	51
3	15	16	21	19	42	24	17	e22	11	25	10	18
4	15	16	26	19	31	23	17	18	10	46	8.8	13
5	15	e29	23	38	28	23	16	16	10	27	9.2	11
6	15	e45	22	33	130	27	16	15	9.7	20	10	9.4
7	17	e27	20	25	89	24	17	14	11	22	9.2	368
8	16	e23	19	22	53	23	17	13	16	23	8.4	186
9	16	e21	19	26	37	22	17	14	16	14	8.0	86
10	16	e20	55	23	31	22	17	13	13	12	8.1	56
11	17	18	38	22	29	21	18	13	11	11	8.3	34
12	17	18	25	21	118	21	18	42	10	10	66	23
13	17	e17	24	20	61	20	38	32	22	9.4	26	18
14	17	e18	52	20	70	20	24	18	25	11	15	16
15	18	18	32	20	87	20	20	15	20	12	12	14
16	17	18	26	19	63	21	18	14	27	9.3	11	220
17	18	18	30	19	45	20	17	13	63	9.6	9.7	243
18	19	18	25	24	38	20	16	13	26	11	9.2	97
19	18	148	23	21	33	19	16	13	18	10	8.7	60
20	18	61	22	20	31	19	15	12	15	9.3	8.8	46
21	19	34	21	19	29	19	15	12	14	8.8	9.2	34
22	19	24	21	19	27	19	15	19	19	8.5	8.9	26
23	18	22	21	18	25	e19	15	e15	42	8.2	8.9	20
24	18	23	37	18	27	e19	15	e14	28	7.9	8.7	17
25	17	21	24	123	27	19	e14	13	21	8.0	8.6	15
26	57	19	22	102	39	20	e17	12	18	40	11	14
27	41	26	21	56	37	20	16	11	70	17	9.0	113
28	24	51	20	37	32	18	15	11	78	13	8.2	122
29	e21	33	20	31	28	18	15	11	45	14	7.9	56
30	e19	24	21	27	---	21	15	12	29	19	8.2	38
31	18	---	20	26	---	19	---	16	---	14	8.2	---
TOTAL	603	860	793	925	1346	650	523	509	722.7	528.0	365.2	2037.4
MEAN	19.5	28.7	25.6	29.8	46.4	21.0	17.4	16.4	24.1	17.0	11.8	67.9
MAX	57	148	55	123	130	27	38	42	78	46	66	368
MIN	15	16	19	18	25	18	14	11	9.7	7.9	7.9	9.4
CFSM	1.12	1.66	1.48	1.72	2.68	1.21	1.01	0.95	1.39	0.98	0.68	3.93
IN.	1.30	1.85	1.71	1.99	2.89	1.40	1.12	1.09	1.55	1.14	0.79	4.38

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

	2001	2002	2003	2004	2001	2002	2003	2004	2001	2002	2003	2004
MEAN	18.0	26.8	25.5	25.2	37.6	42.1	26.2	35.1	41.3	33.2	15.2	30.7
MAX	26.7	42.1	42.0	29.8	46.4	70.7	32.3	84.7	90.1	90.6	33.0	67.9
(WY)	2003	2003	2003	2004	2004	2003	2002	2003	2003	2003	2003	2004
MIN	7.86	9.58	8.98	19.2	25.4	21.0	17.4	16.4	14.0	7.74	5.57	10.3
(WY)	2002	2002	2002	2002	2002	2004	2004	2004	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	17167	9862.3		
ANNUAL MEAN	47.0	26.9		31.3
HIGHEST ANNUAL MEAN				50.1
LOWEST ANNUAL MEAN				16.9
HIGHEST DAILY MEAN	503	Mar 20	368	Sep 7
LOWEST DAILY MEAN	14	Sep 17	7.9	Jul 24 a
ANNUAL SEVEN-DAY MINIMUM	15	Sep 15	8.7	Jul 19
MAXIMUM PEAK FLOW			783	Sep 16
MAXIMUM PEAK STAGE			10.58	Sep 16
ANNUAL RUNOFF (CFSM)	2.72		1.56	1.81
ANNUAL RUNOFF (INCHES)	36.91		21.21	24.61
10 PERCENT EXCEEDS	83		45	57
50 PERCENT EXCEEDS	29		19	21
90 PERCENT EXCEEDS	18		10	7.9

e Estimated  
 a Also Aug 29

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

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 LATITUDE 334854 LONGITUDE 0835925 NAD27 DRAINAGE AREA 17.3 CONTRIBUTING DRAINAGE AREA 17.3\* DATUM 860.00 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	3.07	3.09	3.19	3.14	3.25	3.26	3.14	---	3.00	3.35	2.96	3.00
2	3.06	3.09	3.17	3.14	3.32	3.24	3.10	---	2.97	3.45	2.94	3.46
3	3.05	3.08	3.17	3.13	3.43	3.22	3.10	---	2.95	3.25	2.92	3.11
4	3.05	3.08	3.25	3.13	3.32	3.22	3.09	3.12	2.93	3.37	2.88	2.99
5	3.04	---	3.22	3.33	3.28	3.21	3.09	3.08	2.92	3.26	2.89	2.94
6	3.04	---	3.19	3.34	3.86	3.27	3.09	3.05	2.91	3.15	2.93	2.90
7	3.10	---	3.16	3.24	3.77	3.23	3.09	3.02	2.93	3.19	2.89	5.09
8	3.08	---	3.15	3.20	3.53	3.21	3.09	3.00	3.07	3.20	2.87	4.22
9	3.07	---	3.13	3.25	3.39	3.20	3.09	3.02	3.07	3.04	2.85	3.75
10	3.08	---	3.49	3.22	3.33	3.19	3.10	3.01	3.00	2.99	2.85	3.55
11	3.09	3.12	3.40	3.19	3.30	3.18	3.12	3.00	2.95	2.95	2.86	3.34
12	3.10	3.11	3.24	3.17	3.88	3.18	3.12	3.22	2.93	2.92	3.47	3.19
13	3.09	---	3.22	3.16	3.59	3.17	3.39	3.31	3.08	2.90	3.24	3.10
14	3.09	---	3.51	3.16	3.65	3.16	3.23	3.12	3.22	2.93	3.06	3.04
15	3.12	3.11	3.33	3.15	3.74	3.16	3.15	3.06	3.16	2.98	2.97	3.01
16	3.10	3.11	3.26	3.14	3.60	3.17	3.12	3.03	3.23	2.89	2.94	4.91
17	3.13	3.11	3.31	3.14	3.46	3.16	3.10	3.02	3.58	2.91	2.91	4.50
18	3.13	3.12	3.24	3.23	3.40	3.16	3.08	3.01	3.26	2.95	2.89	3.81
19	3.12	4.03	3.22	3.17	3.35	3.15	3.08	3.00	3.13	2.93	2.87	3.58
20	3.11	3.58	3.19	3.16	3.32	3.14	3.06	2.99	3.06	2.90	2.88	3.46
21	3.14	3.34	3.18	3.14	3.30	3.14	3.06	2.97	3.04	2.88	2.89	3.34
22	3.14	3.23	3.17	3.13	3.27	3.13	3.06	3.10	3.10	2.87	2.88	3.24
23	3.11	3.19	3.18	3.12	3.25	---	3.05	---	3.38	2.86	2.88	3.13
24	3.11	3.21	3.38	3.12	3.27	---	3.04	---	3.28	2.84	2.87	3.07
25	3.10	3.17	3.23	3.84	3.27	3.15	---	3.00	3.17	2.85	2.87	3.04
26	3.43	3.14	3.20	3.83	3.40	3.16	---	2.97	3.12	3.36	2.94	3.01
27	3.41	3.22	3.17	3.55	3.39	3.15	3.08	2.96	3.41	3.09	2.88	3.63
28	3.23	3.51	3.16	3.39	3.34	3.11	3.06	2.95	3.69	3.00	2.86	3.92
29	---	3.33	3.15	3.32	3.29	3.11	3.05	2.95	3.45	2.99	2.84	3.55
30	---	3.23	3.18	3.27	---	3.17	3.05	2.97	3.29	3.13	2.85	3.39
31	3.11	---	3.16	3.25	---	3.14	---	3.07	---	3.02	2.85	---
MEAN	---	---	3.23	3.25	3.43	---	---	---	3.14	3.05	2.93	3.48
MAX	---	---	3.51	3.84	3.88	---	---	---	3.69	3.45	3.47	5.09
MIN	---	---	3.13	3.12	3.25	---	---	---	2.91	2.84	2.84	2.90

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 LATITUDE 334854 LONGITUDE 0835925 NAD27 DRAINAGE AREA 17.3 CONTRIBUTING DRAINAGE AREA 17.3\* DATUM 860.00 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	---	0.00	0.14	0.00	1.27
2	0.00	0.00	0.00	0.00	0.57	0.00	0.00	---	0.00	0.08	0.00	0.29
3	0.00	0.00	0.03	0.00	0.04	0.00	0.00	---	0.00	0.00	0.00	0.00
4	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00
5	0.00	---	0.02	0.84	0.01	0.00	0.00	0.00	0.00	0.00	0.41	0.00
6	0.06	---	0.00	0.00	1.12	0.24	0.00	0.00	0.00	0.01	0.01	0.21
7	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	4.29
8	0.05	0.00	0.00	0.04	0.00	0.00	0.13	0.00	0.10	0.00	0.00	0.04
9	0.14	0.00	0.00	0.26	0.00	0.01	0.00	0.21	0.24	0.80	0.00	0.00
10	0.05	0.00	0.91	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.02	0.00	0.00	0.00	0.19	0.00	0.08	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.01	0.00	1.01	0.00	0.26	1.50	0.14	0.00	1.65	0.00
13	0.00	0.00	0.46	0.00	0.00	0.00	0.47	0.01	---	0.00	0.00	0.00
14	0.01	0.00	0.27	0.00	0.53	0.00	0.00	0.00	---	0.43	0.00	0.00
15	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.30	0.01	0.00	0.00
16	0.00	0.00	0.10	0.00	0.00	0.11	0.00	0.00	1.23	0.00	0.00	3.60
17	0.20	0.11	0.19	0.23	0.00	0.00	0.00	0.00	0.04	0.09	0.00	0.19
18	0.00	0.48	0.00	0.17	0.00	0.00	0.00	0.05	0.00	0.01	0.00	0.00
19	0.00	1.11	0.00	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	0.07	0.00
21	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.19	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	---	0.00	0.34	0.82	0.00	0.00	0.00
23	0.00	0.00	0.51	0.00	0.00	---	0.00	0.00	0.86	0.00	0.00	0.00
24	0.00	0.23	0.01	0.00	0.17	0.00	0.00	0.00	0.02	0.00	0.41	0.00
25	0.00	0.00	0.00	2.15	0.21	0.00	0.00	0.00	0.18	1.23	0.06	0.00
26	1.54	0.00	0.00	0.01	0.18	0.00	0.27	0.00	0.00	0.20	0.00	0.00
27	0.00	0.63	0.00	0.08	0.47	0.00	0.00	0.00	1.06	0.21	0.00	2.55
28	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.02
29	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.13	0.00	0.20	0.00	0.00
30	0.00	0.00	0.09	0.00	---	0.39	0.03	0.00	0.09	0.00	0.27	0.00
31	0.00	---	0.00	0.00	---	0.06	---	0.45	---	0.00	0.00	---
TOTAL	2.10	---	3.15	3.79	4.95	---	1.24	---	---	4.05	2.89	12.46