



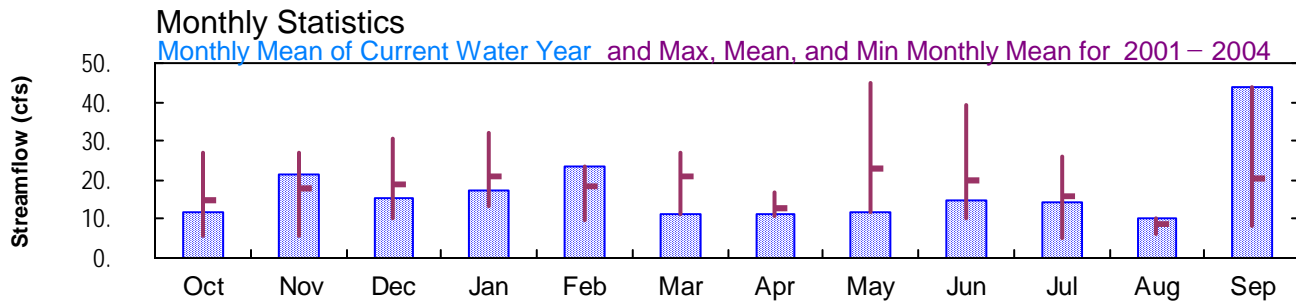
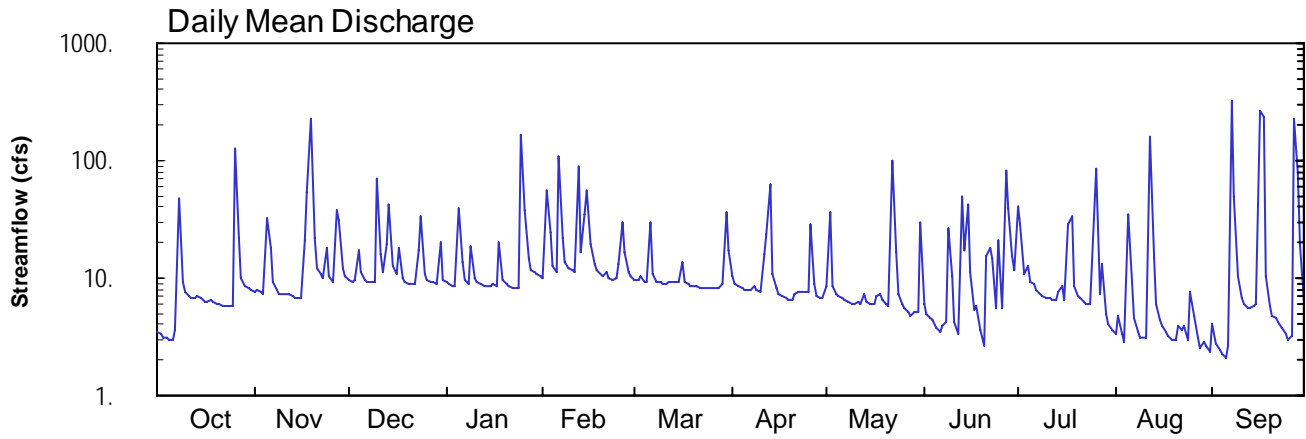
2004 Water Year  
APALACHICOLA RIVER BASIN

**02335350 CROOKED CREEK NEAR NORCROSS, GA**

Latitude: 33° 57 ' 54"  
Gwinnett County

Longitude: 084° 15 ' 54"  
Datum: 869.40 feet

Hydrologic Unit Code: 03130001  
Drainage Area: 8.89 mi<sup>2</sup>



**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02335350 CROOKED CREEK NEAR NORCROSS, GA**

**LOCATION.**—Lat 33°57'54", long 84°15'54" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03130001, 20.0 feet upstream of the bridge on Spalding drive, 3.2 miles northwest of Norcross, and 0.6 miles upstream from the Chattahoochee River.

**DRAINAGE AREA.**—8.89 square miles.

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

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—April 20, 1996 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 869.40 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

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

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—April 20, 1996 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 869.40 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 13.76 feet, September 16; minimum gage-height recorded, 3.55 feet, September 25-27.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—March 23, 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 02335350 CROOKED CREEK NEAR NORCROSS, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 335754 LONGITUDE 0841554 NAD27 DRAINAGE AREA 8.89 CONTRIBUTING DRAINAGE AREA 8.89\* DATUM 869.40 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	3.5	7.7	9.7	9.1	9.9	9.8	10	8.5	6.0	41	3.4	4.1
2	3.3	8.0	9.3	8.9	55	9.7	8.9	36	4.9	28	4.8	2.7
3	3.1	7.6	9.6	8.7	24	11	8.4	8.5	4.6	11	3.3	2.5
4	3.1	7.4	17	8.5	12	9.3	8.2	7.4	4.4	13	2.9	2.2
5	3.0	33	11	39	11	9.2	8.0	6.9	3.8	9.3	36	2.1
6	3.0	18	9.7	14	108	30	8.0	6.9	3.5	8.8	9.3	2.6
7	3.7	9.3	9.4	9.6	22	11	8.0	6.6	4.0	7.9	4.5	323
8	47	7.8	9.4	9.0	14	9.3	8.5	6.3	4.2	7.3	3.5	50
9	9.4	7.4	9.2	19	12	9.3	7.9	6.1	26	7.1	3.1	10
10	7.7	7.4	71	10	12	9.0	7.7	6.1	11	6.9	3.0	6.7
11	7.1	7.4	16	9.1	11	9.0	16	6.2	4.3	6.7	3.1	6.0
12	6.9	7.3	11	8.8	89	9.2	23	6.1	3.4	6.5	161	5.6
13	6.7	7.1	20	8.6	17	9.3	64	7.2	49	6.5	15	5.6
14	6.9	6.8	42	8.5	35	9.3	11	6.2	17	e7.6	6.1	5.8
15	6.6	6.8	12	8.4	56	9.4	8.1	6.0	42	e8.5	4.5	5.9
16	6.2	6.7	11	9.0	19	14	7.4	6.0	11	6.6	4.0	e270
17	6.4	21	18	8.6	13	9.2	7.0	7.0	5.4	29	3.5	240
18	6.5	54	10	20	12	8.8	6.8	7.4	5.9	33	3.2	10
19	6.2	225	9.4	9.5	11	8.6	6.6	6.5	3.6	8.4	3.0	5.8
20	6.1	22	9.0	8.8	10	8.5	6.4	6.0	2.7	7.1	3.0	e4.8
21	6.0	12	8.9	8.4	11	8.7	7.4	5.8	15	6.8	4.0	e4.5
22	5.8	11	8.9	8.2	9.9	8.2	7.7	100	18	6.4	3.6	e4.2
23	5.9	10	17	8.2	9.8	8.2	7.6	17	15	6.1	3.9	e3.8
24	5.9	18	34	8.1	10	8.2	7.5	7.3	5.6	6.0	3.0	e3.4
25	5.8	10	11	169	13	8.2	7.6	6.1	21	32	7.5	e3.0
26	124	9.3	9.5	37	29	8.2	29	5.6	5.5	85	4.8	3.2
27	22	38	9.2	15	17	8.2	8.7	5.1	81	7.3	3.1	224
28	10	31	9.2	12	11	8.1	7.1	4.8	40	13	2.6	81
29	8.6	12	8.9	11	10	8.8	6.7	5.1	15	5.0	2.8	19
30	8.1	10	20	11	---	36	6.8	5.2	12	4.1	2.7	6.6
31	7.8	---	9.7	10	---	17	---	30	---	3.6	2.4	---
TOTAL	362.3	639.0	470.0	533.0	673.6	340.7	336.0	355.9	444.8	435.5	320.6	1318.1
MEAN	11.7	21.3	15.2	17.2	23.2	11.0	11.2	11.5	14.8	14.0	10.3	43.9
MAX	124	225	71	169	108	36	64	100	81	85	161	323
MIN	3.0	6.7	8.9	8.1	9.8	8.1	6.4	4.8	2.7	3.6	2.4	2.1
CFSM	1.31	2.40	1.71	1.93	2.61	1.24	1.26	1.29	1.67	1.58	1.16	4.94
IN.	1.52	2.67	1.97	2.23	2.82	1.43	1.41	1.49	1.86	1.82	1.34	5.52

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

	2001	2002	2003	2004
MEAN	14.9	18.0	18.7	20.8
MAX	27.3	27.0	30.7	31.9
(WY)	2003	2003	2003	2004
MIN	5.60	5.82	10.3	13.3
(WY)	2002	2002	2002	2003

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	7691.0	6229.5		
ANNUAL MEAN	21.1	17.0	18.3	
HIGHEST ANNUAL MEAN			24.2	2003
LOWEST ANNUAL MEAN			13.7	2002
HIGHEST DAILY MEAN	433	May 6	323	Sep 7
LOWEST DAILY MEAN	3.0	Sep 21	2.1	Sep 5
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 30	2.7	Aug 31
MAXIMUM PEAK STAGE			13.76	Sep 16
ANNUAL RUNOFF (CFSM)	2.37		1.91	
ANNUAL RUNOFF (INCHES)	32.18		26.07	
10 PERCENT EXCEEDS	37		32	
50 PERCENT EXCEEDS	9.7		8.5	
90 PERCENT EXCEEDS	4.1		3.6	

e Estimated

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

STATION NUMBER 02335350 CROOKED CREEK NEAR NORCROSS, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 335754 LONGITUDE 0841554 NAD27 DRAINAGE AREA 8.89 CONTRIBUTING DRAINAGE AREA 8.89\* DATUM 869.40 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	3.66	3.70	3.80	3.77	3.80	3.80	3.83	3.81	3.90	4.34	3.69	3.72
2	3.65	3.72	3.78	3.76	4.40	3.80	3.76	4.36	3.85	4.25	3.76	3.64
3	3.64	3.70	3.79	3.75	4.20	3.83	3.74	3.81	3.83	3.83	3.68	3.62
4	3.64	3.69	4.04	3.74	3.90	3.78	3.73	3.76	3.81	3.86	3.65	3.60
5	3.64	4.09	3.86	4.26	3.86	3.77	3.72	3.74	3.78	3.77	4.15	3.59
6	3.63	4.04	3.80	3.94	5.08	4.19	3.72	3.73	3.77	3.76	3.96	3.63
7	3.67	3.78	3.78	3.79	4.16	3.84	3.72	3.72	3.79	3.71	3.75	6.97
8	4.40	3.71	3.78	3.77	3.95	3.78	3.74	3.70	3.80	3.68	3.69	4.65
9	3.78	3.69	3.77	4.04	3.88	3.78	3.72	3.69	4.10	3.67	3.67	4.04
10	3.70	3.69	4.77	3.81	3.87	3.77	3.70	3.69	4.04	3.66	3.67	3.88
11	3.68	3.69	4.01	3.77	3.85	3.76	3.93	3.70	3.81	3.65	3.67	3.83
12	3.66	3.69	3.85	3.75	4.99	3.77	3.94	3.69	3.76	3.64	5.46	3.79
13	3.66	3.67	4.01	3.74	4.03	3.78	4.72	3.75	4.59	3.64	4.12	3.77
14	3.66	3.66	4.44	3.74	4.37	3.78	3.91	3.69	4.15	---	3.84	3.76
15	3.65	3.66	3.90	3.74	4.62	3.78	3.79	3.68	4.34	---	3.75	3.75
16	3.63	3.65	3.84	3.76	4.09	3.93	3.76	3.68	4.07	3.65	3.72	6.97
17	3.63	4.04	4.03	3.75	3.92	3.78	3.74	3.74	3.87	4.04	3.69	6.18
18	3.64	4.28	3.82	4.08	3.87	3.75	3.73	3.75	3.88	4.23	3.68	3.92
19	3.62	6.08	3.78	3.79	3.84	3.75	3.72	3.71	3.77	---	3.66	3.72
20	3.62	---	3.77	3.75	3.83	3.74	3.71	3.68	3.71	3.67	3.66	3.94
21	3.61	3.89	3.76	3.74	3.86	3.75	3.76	3.67	4.00	3.66	3.72	4.86
22	3.60	3.84	3.76	3.73	3.81	3.73	3.78	4.74	4.09	3.63	3.70	4.89
23	3.60	3.81	3.89	3.73	3.80	3.73	3.77	4.21	4.05	3.62	3.71	4.89
24	3.60	4.02	4.28	3.72	3.81	3.73	3.77	3.97	3.88	3.61	3.66	4.64
25	3.60	3.82	3.83	5.82	3.90	3.73	3.77	3.91	4.12	3.87	3.84	3.62
26	5.21	3.78	3.79	4.40	4.28	3.73	4.22	3.88	3.87	4.88	3.77	3.57
27	4.13	4.24	3.77	3.98	4.04	3.73	3.82	3.85	4.65	3.90	3.66	5.63
28	3.81	4.32	3.77	3.88	3.86	3.72	3.74	3.84	4.45	4.02	3.63	4.97
29	3.74	3.89	3.76	3.86	3.82	3.75	3.72	3.85	3.98	3.78	3.65	4.10
30	3.72	3.82	4.06	3.85	---	4.29	3.73	3.86	3.86	3.73	3.63	3.76
31	3.71	---	3.79	3.82	---	3.99	---	4.29	---	3.70	3.61	---
MEAN	3.75	---	3.91	3.90	4.06	3.81	3.81	3.84	3.99	---	3.79	4.33
MAX	5.21	---	4.77	5.82	5.08	4.29	4.72	4.74	4.65	---	5.46	6.97
MIN	3.60	---	3.76	3.72	3.80	3.72	3.70	3.67	3.71	---	3.61	3.57

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 LATITUDE 335754 LONGITUDE 0841554 NAD27 DRAINAGE AREA 8.89 CONTRIBUTING DRAINAGE AREA 8.89\* DATUM 869.40 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	0.01	0.49	0.00	0.21	0.00	0.19
2	0.00	0.00	0.00	0.00	0.72	0.09	0.00	0.28	0.00	0.12	0.00	0.03
3	0.00	0.00	0.03	0.00	0.07	0.01	0.00	0.00	0.00	0.02	0.00	0.01
4	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00
5	0.00	0.51	0.01	0.49	0.01	0.00	0.00	0.00	0.00	0.00	0.76	0.00
6	0.03	0.14	0.00	0.00	0.93	0.39	0.00	0.00	0.00	0.03	0.00	0.08
7	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	3.74
8	0.50	0.00	0.00	0.04	0.00	0.00	0.07	0.00	0.02	0.00	0.00	0.12
9	0.00	0.00	0.00	0.25	0.00	0.02	0.00	0.00	0.64	0.00	0.00	0.00
10	0.01	0.00	0.76	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.16	0.00	0.26	0.28	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.73	0.00	0.62	0.07	0.00	0.00	2.20	0.00
13	0.00	0.00	0.38	0.00	0.00	0.00	0.46	0.00	1.81	0.00	0.00	0.00
14	0.07	0.00	0.24	0.00	0.37	0.00	0.00	0.00	0.02	---	0.00	0.00
15	0.00	0.00	0.00	0.00	0.42	0.00	0.01	0.00	0.47	---	0.01	0.00
16	0.00	0.01	0.10	0.00	0.00	0.13	0.00	0.07	0.05	0.00	0.00	4.20
17	0.02	0.47	0.12	0.24	0.04	0.00	0.00	0.04	0.00	1.12	0.00	0.04
18	0.00	1.40	0.01	0.11	0.00	0.00	0.00	0.17	0.19	0.00	0.00	0.00
19	0.00	1.21	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	0.00	0.00	0.00	0.00	0.00	0.20	0.00
21	0.00	0.00	0.00	0.00	0.07	0.03	0.00	0.00	0.86	0.00	0.13	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.14	0.00	0.05	0.00
23	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
24	0.00	0.27	0.01	0.00	0.03	0.00	0.00	0.00	0.05	0.13	0.00	0.00
25	0.00	0.00	0.00	2.01	0.15	0.00	0.00	0.00	0.14	1.62	0.04	0.00
26	1.71	0.00	0.00	0.01	0.41	0.00	0.68	0.00	0.07	0.15	0.00	0.00
27	0.02	0.77	0.00	0.00	0.03	0.00	0.01	0.00	0.88	0.00	0.00	3.10
28	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.04	0.41	0.01	0.04	0.00
29	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.18	0.01	0.00	0.08	0.00
30	0.00	0.00	0.22	0.00	---	0.67	0.00	0.00	0.05	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.22	---	0.91	---	0.00	0.00	---
TOTAL	2.40	4.94	2.76	3.15	4.16	1.56	2.12	3.03	6.39	---	3.51	11.51