



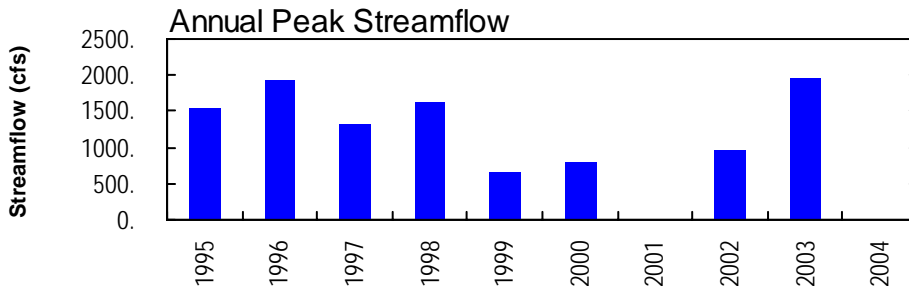
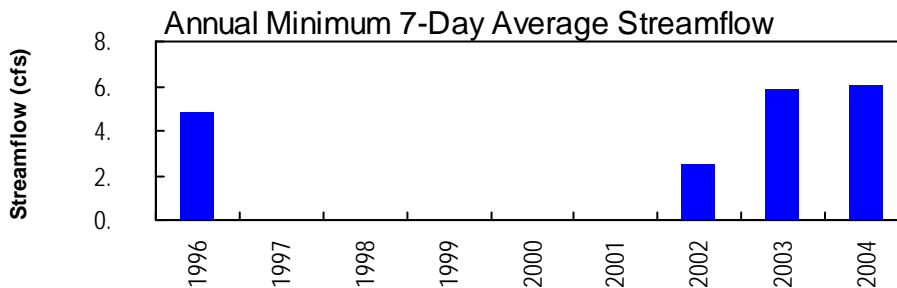
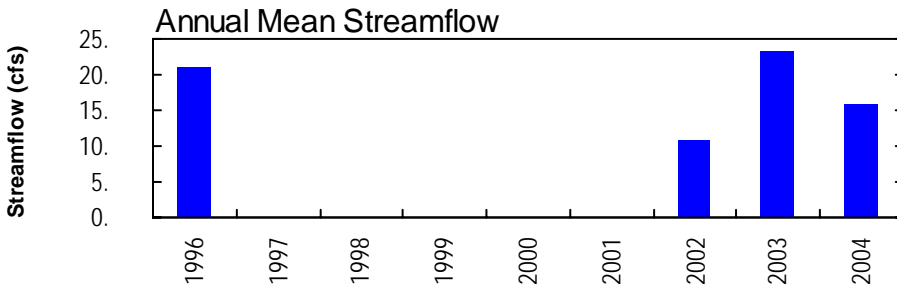
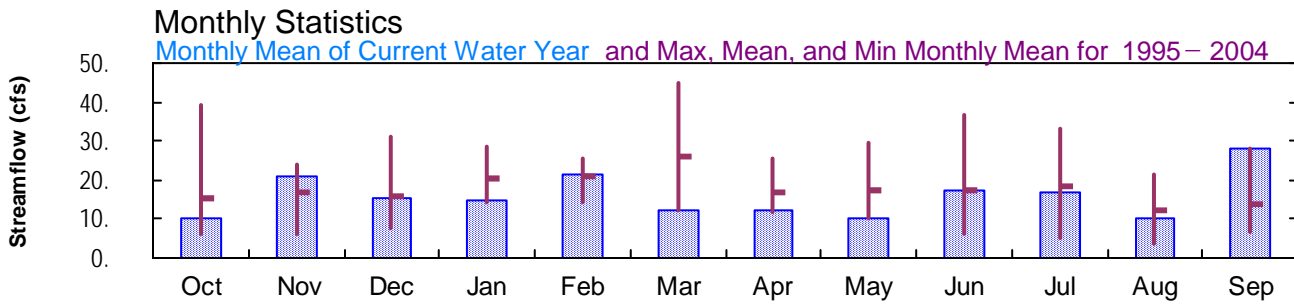
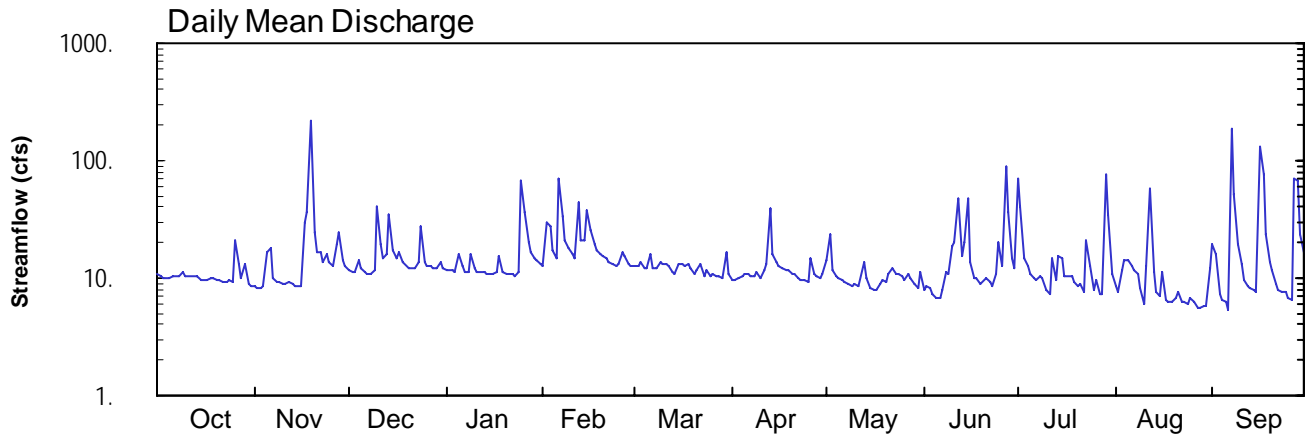
2004 Water Year  
APALACHICOLA RIVER BASIN

**02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD, GA**

Latitude: 34°07'57"  
Gwinnett County

Longitude: 084°04'12"  
Datum: 920.00 feet

Hydrologic Unit Code: 03130001  
Drainage Area: 9.34 mi<sup>2</sup>



**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02334480 RICHLAND CREEK ON SUWANEE DAM ROAD, NEAR BUFORD, GA**

**LOCATION.**—Lat 34°07'57", long 84°04'12" referenced to North American Datum (NAD) of 1927, Hydrologic Unit Code 03130001, Gwinnett County, at concrete box culvert on Suwanee Dam Road near Buford, 7.0 miles south of Buford Dam, and 1.25 river miles from the confluence of the Chattahoochee River.

**DRAINAGE AREA.**—9.34 square miles.

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

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—October 1, 1995 to January 6, 1997 (continuous record); 1998 to May 17, 2001 (non-continuous record); May 17, 2001 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 920.00 feet above National Geodetic Vertical Datum (NGVD) of 1929. From October 1, 1995 to January 6, 1997, continuous recorder at same site. From 1998 to May 17, 2001, operated as a crest-stage gage at same location.

**REMARKS.**—Records good, except for discharges over 2000 cfs, which are fair.

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—October 1, 1995 to January 6, 1997 (continuous record); 1998 to May 17, 2001 (non-continuous record); May 17, 2001 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 920.00 feet above National Geodetic Vertical Datum (NGVD) of 1929. From October 1, 1995 to January 6, 1997, continuous recorder at same site. From 1998 to May 17, 2001, operated as a crest-stage gage at same location.

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 9.19 feet, September 16; minimum gage-height recorded, 0.39 feet, August 27, 28, 29, 30, September 5, 6, 7.

**APALACHICOLA RIVER BASIN  
2004 Water Year**

**02334480 RICHLAND CREEK ON SUWANEE DAM ROAD, NEAR BUFORD, GA—continued.**

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—May 17, 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 02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340757 LONGITUDE 0840412 NAD27 DRAINAGE AREA 9.34 CONTRIBUTING DRAINAGE AREA 9.34\* DATUM 920.00 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	11	8.5	12	12	13	12	9.7	14	8.1	72	8.4	19
2	10	8.3	11	12	29	12	9.5	24	8.5	41	7.7	16
3	10	8.4	11	12	28	14	9.9	12	8.1	15	12	7.4
4	10	8.6	14	11	17	12	10	10	7.2	13	14	6.6
5	10	16	12	16	15	12	11	10	6.8	11	14	6.1
6	10	18	11	13	72	16	11	9.5	6.7	9.9	13	5.3
7	11	9.9	11	11	34	12	10	9.2	7.8	9.7	12	189
8	11	9.4	11	11	21	12	10	8.8	11	10	11	51
9	11	9.1	11	16	18	14	11	8.5	11	9.8	8.4	19
10	10	8.9	41	12	16	13	10	8.8	18	8.0	6.1	13
11	10	9.0	19	11	15	13	12	8.7	20	7.4	13	9.5
12	10	9.3	15	11	44	13	13	9.9	47	15	58	8.5
13	10	8.8	16	11	21	11	39	14	15	9.7	11	8.3
14	10	8.5	34	11	21	11	16	10	20	16	7.6	7.9
15	9.6	8.6	17	11	38	13	14	8.3	47	15	7.0	7.6
16	9.6	8.7	15	11	26	13	13	8.0	14	11	11	129
17	9.8	30	17	11	19	12	12	8.0	9.9	10	6.6	75
18	10	37	14	15	17	13	12	8.8	10	10	6.3	24
19	9.9	221	13	11	16	12	12	9.5	8.8	9.4	6.2	14
20	9.8	25	12	11	15	11	11	9.4	9.6	8.5	6.8	12
21	9.7	17	12	11	15	12	11	11	10	8.8	7.5	8.8
22	9.3	16	12	11	14	13	10	12	9.2	7.5	6.2	8.0
23	9.2	14	14	10	13	11	9.7	11	8.7	21	6.4	7.6
24	9.4	16	27	11	13	12	9.5	11	11	12	6.0	7.5
25	9.4	14	14	68	13	10	9.3	11	20	7.9	6.8	6.8
26	21	12	13	36	17	11	15	9.5	12	9.6	6.2	6.4
27	13	19	12	20	16	10	11	11	90	7.4	5.6	69
28	10	25	12	17	13	10	10	10	36	7.4	5.5	68
29	13	14	12	15	13	10	9.9	8.8	15	76	5.9	23
30	8.8	12	14	14	---	17	11	8.2	12	35	5.9	16
31	8.5	---	12	13	---	11	---	11	---	11	12	---
TOTAL	324.0	630.0	471	466	622	378	362.5	323.9	518.4	515.0	314.1	849.3
MEAN	10.5	21.0	15.2	15.0	21.4	12.2	12.1	10.4	17.3	16.6	10.1	28.3
MAX	21	221	41	68	72	17	39	24	90	76	58	189
MIN	8.5	8.3	11	10	13	10	9.3	8.0	6.7	7.4	5.5	5.3
CFSM	1.12	2.25	1.63	1.61	2.30	1.31	1.29	1.12	1.85	1.78	1.08	3.03
IN.	1.29	2.51	1.88	1.86	2.48	1.51	1.44	1.29	2.06	2.05	1.25	3.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004		
MEAN	15.1	16.7	15.9	20.4	21.0	25.8	16.7	17.5	17.4	18.3	12.1	13.8
MAX	39.3	23.8	30.9	28.5	25.5	45.1	25.5	29.5	36.6	32.9	21.2	28.3
(WY)	1996	1996	2003	1996	1996	1996	2003	2003	2003	2003	2001	2004
MIN	5.88	5.94	7.89	14.4	14.1	12.2	11.6	10.4	6.11	5.25	3.51	6.64
(WY)	2002	2002	2002	2003	2002	2004	2002	2004	2002	2002	2002	2001

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1995 - 2004

ANNUAL TOTAL	7851.3	5774.2	
ANNUAL MEAN	21.5	15.8	17.7
HIGHEST ANNUAL MEAN			23.3
LOWEST ANNUAL MEAN			10.8
HIGHEST DAILY MEAN	257	Jul 1	221
LOWEST DAILY MEAN	8.3	Nov 2	5.3
ANNUAL SEVEN-DAY MINIMUM	8.8	Nov 10	6.0
MAXIMUM PEAK STAGE			9.19
ANNUAL RUNOFF (CFSM)	2.30		1.69
ANNUAL RUNOFF (INCHES)	31.27		23.00
10 PERCENT EXCEEDS	32		22
50 PERCENT EXCEEDS	15		11
90 PERCENT EXCEEDS	9.9		7.9

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

STATION NUMBER 02334480 RICHLAND CREEK AT SUWANEE DAM ROAD, NEAR BUFORD,GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340757 LONGITUDE 0840412 NAD27 DRAINAGE AREA 9.34 CONTRIBUTING DRAINAGE AREA 9.34\* DATUM 920.00 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	0.52	0.47	0.54	0.53	0.55	0.55	0.50	0.57	0.45	1.13	0.47	0.67
2	0.51	0.47	0.53	0.53	0.78	0.55	0.49	0.72	0.46	0.97	0.45	0.59
3	0.50	0.47	0.52	0.53	0.80	0.57	0.50	0.53	0.45	0.58	0.53	0.44
4	0.50	0.47	0.58	0.53	0.63	0.54	0.51	0.50	0.43	0.54	0.58	0.43
5	0.50	0.60	0.55	0.60	0.60	0.55	0.52	0.49	0.42	0.50	0.58	0.42
6	0.51	0.63	0.53	0.55	1.31	0.61	0.51	0.48	0.42	0.49	0.55	0.39
7	0.51	0.50	0.52	0.53	0.88	0.54	0.51	0.48	0.44	0.48	0.53	2.24
8	0.51	0.49	0.52	0.53	0.69	0.55	0.51	0.47	0.51	0.50	0.51	1.11
9	0.52	0.48	0.53	0.61	0.64	0.57	0.53	0.46	0.50	0.49	0.46	0.66
10	0.51	0.48	0.96	0.54	0.61	0.56	0.50	0.47	0.64	0.45	0.41	0.56
11	0.51	0.48	0.67	0.53	0.59	0.56	0.54	0.46	0.66	0.44	0.54	0.49
12	0.51	0.49	0.60	0.53	1.00	0.55	0.55	0.49	1.06	0.56	1.18	0.47
13	0.51	0.48	0.61	0.52	0.70	0.52	0.93	0.56	0.58	0.48	0.53	0.47
14	0.51	0.47	0.88	0.52	0.69	0.52	0.60	0.49	0.64	0.58	0.45	0.46
15	0.49	0.47	0.63	0.52	0.93	0.55	0.56	0.46	1.05	0.58	0.44	0.45
16	0.49	0.47	0.59	0.52	0.77	0.56	0.54	0.45	0.56	0.50	0.52	2.51
17	0.50	0.81	0.62	0.52	0.67	0.55	0.53	0.45	0.49	0.50	0.43	1.44
18	0.50	0.84	0.57	0.60	0.63	0.56	0.53	0.47	0.49	0.50	0.42	0.79
19	0.50	2.38	0.56	0.53	0.61	0.54	0.52	0.48	0.47	0.48	0.42	0.64
20	0.50	0.75	0.55	0.52	0.60	0.51	0.51	0.48	0.48	0.46	0.43	0.59
21	0.50	0.63	0.54	0.52	0.59	0.53	0.50	0.51	0.49	0.47	0.45	0.54
22	0.49	0.62	0.54	0.51	0.57	0.56	0.49	0.53	0.47	0.44	0.42	0.52
23	0.49	0.57	0.57	0.51	0.56	0.51	0.49	0.51	0.46	0.67	0.42	0.51
24	0.49	0.61	0.78	0.53	0.55	0.53	0.48	0.51	0.50	0.54	0.41	0.51
25	0.49	0.57	0.57	1.28	0.56	0.51	0.48	0.50	0.66	0.45	0.43	0.49
26	0.68	0.55	0.56	0.91	0.62	0.52	0.57	0.48	0.53	0.48	0.42	0.48
27	0.56	0.65	0.55	0.68	0.61	0.51	0.50	0.51	1.35	0.44	0.40	1.23
28	0.50	0.75	0.54	0.62	0.56	0.51	0.50	0.49	0.89	0.44	0.40	1.35
29	0.55	0.58	0.54	0.59	0.55	0.50	0.49	0.47	0.58	1.15	0.41	0.79
30	0.48	0.55	0.58	0.58	---	0.62	0.50	0.45	0.53	0.88	0.41	0.68
31	0.47	---	0.54	0.56	---	0.52	---	0.51	---	0.51	0.53	---
MEAN	0.51	0.63	0.59	0.58	0.68	0.54	0.53	0.50	0.59	0.57	0.49	0.76
MAX	0.68	2.38	0.96	1.28	1.31	0.62	0.93	0.72	1.35	1.15	1.18	2.51
MIN	0.47	0.47	0.52	0.51	0.55	0.50	0.48	0.45	0.42	0.44	0.40	0.39

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

STATION NUMBER 02334480 RICHLAND CREEK AT SUWANEEN DAM ROAD, NEAR BUFORD,GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 340757 LONGITUDE 0840412 NAD27 DRAINAGE AREA 9.34 CONTRIBUTING DRAINAGE AREA 9.34\* DATUM 920.00 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	0.76	0.00	1.09	0.00	0.34
2	0.00	0.00	0.00	0.00	0.83	0.16	0.00	0.36	0.00	0.40	0.00	0.07
3	0.00	0.00	0.05	0.00	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00
5	0.00	0.54	0.05	0.46	0.04	0.00	0.00	0.00	0.00	0.00	0.13	0.00
6	0.01	0.02	0.00	0.00	1.19	0.37	0.00	0.00	0.00	0.00	0.00	0.01
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	4.31
8	0.09	0.00	0.00	0.06	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.10
9	0.12	0.00	0.00	0.28	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00
10	0.05	0.00	0.94	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	0.00	0.01	0.11	0.00	0.21	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.71	0.00	0.81	0.64	0.04	0.61	1.21	0.00
13	0.00	0.00	0.48	0.00	0.00	0.00	0.51	0.43	0.46	0.00	0.00	0.00
14	0.05	0.00	0.30	0.00	0.23	0.00	0.01	0.00	0.04	0.78	0.00	0.00
15	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.53	0.01	0.01	0.00
16	0.00	0.35	0.12	0.00	0.00	0.09	0.00	0.00	0.01	0.00	0.00	4.43
17	0.02	0.91	0.10	0.22	0.00	0.00	0.00	0.00	0.02	0.44	0.01	0.16
18	0.00	1.67	0.02	0.18	0.00	0.01	0.00	0.13	0.01	0.01	0.00	0.00
19	0.00	1.69	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	0.09	0.00	0.00	0.00	0.00	0.26	0.00
21	0.00	0.00	0.00	0.00	0.03	0.03	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	0.00	0.04	0.37	0.00	0.00	0.00
23	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
24	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.02	0.00
25	0.00	0.00	0.00	1.88	0.10	0.00	0.00	0.00	1.11	0.36	0.20	0.00
26	1.47	0.00	0.00	0.02	0.04	0.00	0.57	0.00	0.03	0.27	0.00	0.00
27	0.02	0.74	0.00	0.00	0.48	0.00	0.00	0.00	1.58	0.01	0.00	2.81
28	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.01	0.18	0.00	0.00	0.03
29	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.03	0.01	4.59	0.18	0.00
30	0.00	0.00	0.10	0.00	---	0.71	0.01	0.00	0.42	0.01	0.00	0.00
31	0.00	---	0.00	0.00	---	0.02	---	0.52	---	0.00	0.00	---
TOTAL	1.84	6.41	3.29	3.12	4.38	1.50	2.13	2.92	5.95	8.79	2.03	12.26