



2004 Water Year ALTAMAHA RIVER BASIN

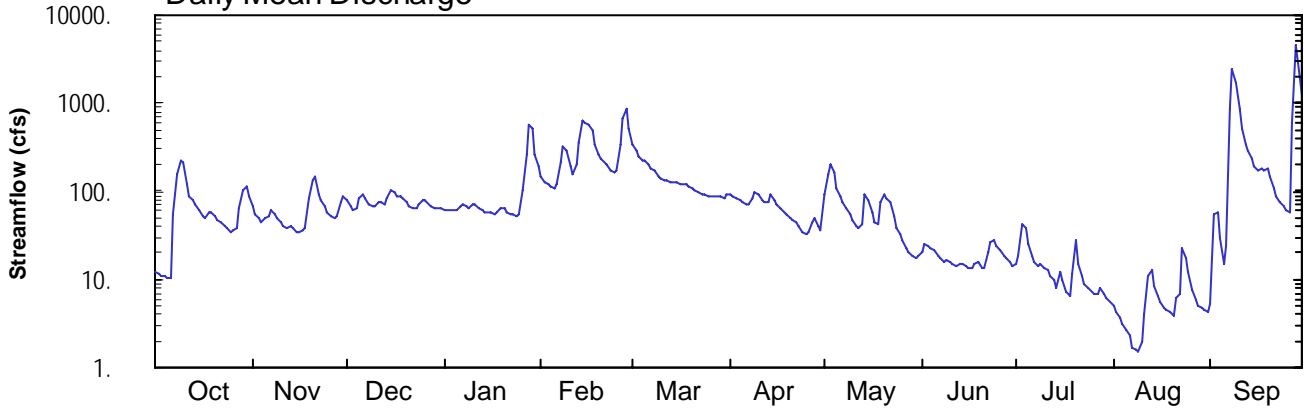
02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA

Latitude: 32° 14' 22"
Pulaski County

Longitude: 083° 30' 06"
Datum: 210.49 feet

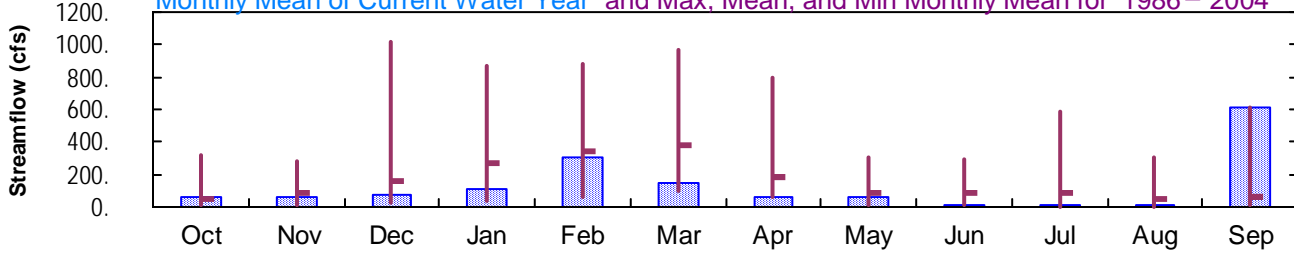
Hydrologic Unit Code: 03070104
Drainage Area: 163. mi²

Daily Mean Discharge

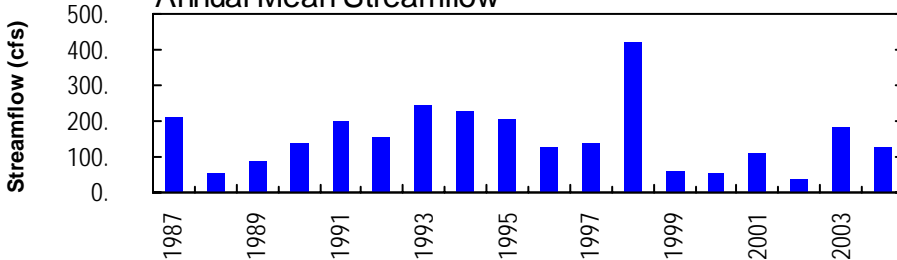


Monthly Statistics

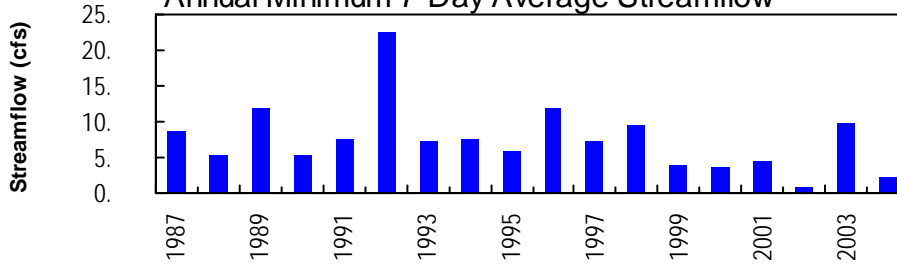
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1986–2004



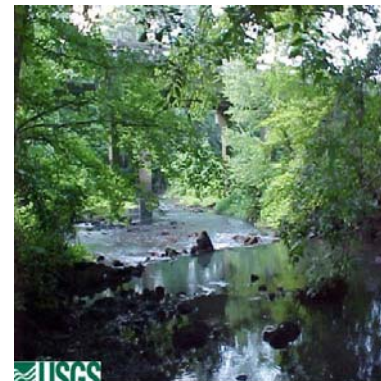
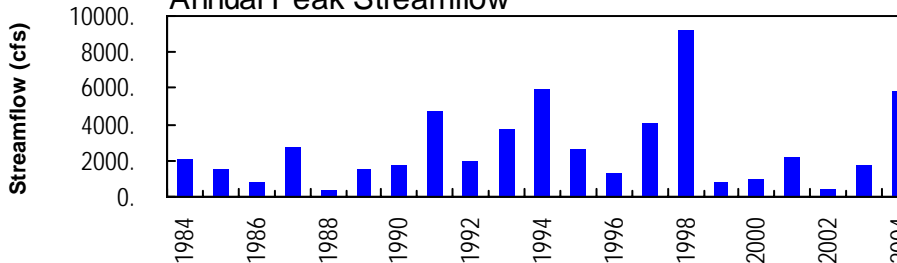
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



02215100 - Tucsawhatchee Creek near Hawkinsville, GA

**ALTAMAHA RIVER BASIN
2004 Water Year**

02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA

LOCATION.—Lat 32°14'22", long 83°30'06" referenced to North American Datum (NAD) of 1983, Pulaski County, Hydrologic Unit 03070104, on left bank 90.0 feet upstream from GA 27 and 257, 0.6 miles upstream from Cedar Creek, 0.6 miles downstream from Long Branch, and 3.5 miles southwest of Hawkinsville.

DRAINAGE AREA.—163 square miles.

COOPERATION.—Georgia Geologic Survey.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—Water years 1984-86 (annual maximum), April 1986 to current year.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 210.49 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from Georgia Department of Transportation). From December 6, 1984 to April 1, 1986, a crest-stage gage was located at a site 100.00 feet downstream at datum 3.00 feet higher.

REMARKS.--Records good, except for periods of estimated discharge, which are poor.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,000 cfs and maximum (*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
09/08	0800	2,530	11.59
09/28	1530	5,840*	15.07*

WATER-STAGE RECORDS

PERIOD OF RECORD.—Water years 1984-86 (annual maximum), April 1986 to current year.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 210.49 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from Georgia Department of Transportation). From December 6, 1984 to April 1, 1986, a crest-stage gage was located at a site 100.00 feet downstream at datum 3.00 feet higher.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 15.07 feet, September 28; minimum gage-height recorded, 0.76 feet, August 8-10.

**ALTAMAHA RIVER BASIN
2004 Water Year**

02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA—continued.

PRECIPITATION RECORDS

PERIOD OF RECORD.—March 26, 2002 to current year.

GAGE.—Tipping-bucket raingage.

REMARKS.—Records good.

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

STATION NUMBER 02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 235
 LATITUDE 321422 LONGITUDE 0833006 NAD83 DRAINAGE AREA 163 CONTRIBUTING DRAINAGE AREA 163* DATUM 210.49 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	12	67	78	62	151	345	94	90	21	15	e4.9	5.3
2	12	55	66	61	128	285	89	158	25	19	e4.3	54
3	11	50	60	60	120	251	84	202	24	43	e3.6	59
4	11	45	64	60	114	227	81	167	23	39	e3.1	29
5	10	49	82	62	107	219	75	108	22	25	e2.7	15
6	10	53	92	67	119	200	71	87	18	18	2.3	24
7	55	60	81	71	217	183	71	76	17	16	1.7	847
8	154	55	71	68	323	169	83	64	16	14	1.6	2420
9	225	49	66	65	295	150	99	54	16	15	1.5	1680
10	209	44	68	70	187	139	92	46	16	14	2.0	875
11	120	40	75	70	153	136	81	41	15	13	4.1	508
12	89	39	76	66	199	133	75	38	14	11	11	344
13	77	39	71	62	357	127	74	42	15	9.8	13	298
14	70	37	83	59	641	123	93	90	15	8.0	8.5	236
15	62	35	103	59	588	124	81	81	14	12	6.4	192
16	53	35	98	58	571	123	70	58	14	9.7	5.6	175
17	49	36	88	56	478	121	63	45	14	7.0	4.8	182
18	58	37	86	57	332	118	57	42	15	6.4	4.6	175
19	59	85	82	63	267	115	56	73	16	11	4.4	183
20	52	136	75	63	235	107	50	94	14	27	3.9	148
21	48	144	69	59	213	103	46	82	13	15	6.1	106
22	44	94	65	54	197	99	44	75	20	11	6.9	87
23	40	79	64	54	177	95	40	51	26	9.0	22	76
24	37	67	70	52	164	91	35	39	27	7.9	18	68
25	35	59	79	55	176	90	33	32	24	7.2	12	62
26	36	53	79	101	341	89	34	28	21	6.8	7.7	57
27	39	50	72	262	670	88	46	23	18	6.9	6.0	599
28	64	52	67	576	861	87	49	20	17	8.2	5.1	4640
29	105	75	66	507	528	86	39	18	16	6.8	4.9	2920
30	112	89	65	262	---	85	36	18	14	e6.2	4.4	1260
31	86	---	64	188	---	95	---	18	---	e5.5	4.2	---
TOTAL	2044	1808	2325	3429	8909	4403	1941	2060	540	423.4	191.3	18324.3
MEAN	65.9	60.3	75.0	111	307	142	64.7	66.5	18.0	13.7	6.17	611
MAX	225	144	103	576	861	345	99	202	27	43	22	4640
MIN	10	35	60	52	107	85	33	18	13	5.5	1.5	5.3
CFSM	0.40	0.37	0.46	0.68	1.88	0.87	0.40	0.41	0.11	0.08	0.04	3.75
IN.	0.47	0.41	0.53	0.78	2.03	1.00	0.44	0.47	0.12	0.10	0.04	4.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	48.4	84.9	164	265	338	386	187	80.8	85.1	89.8	55.0	66.7							
MAX	320	282	1014	871	882	972	791	311	288	592	312	611							
(WY)	1995	1998	1998	1987	1998	1998	1998	1991	2003	1994	1991	2004							
MIN	6.47	17.7	30.5	39.7	56.5	96.1	55.9	17.8	7.02	4.17	1.81	6.91							
(WY)	2001	2001	1988	1989	1989	1999	1986	2000	2000	1986	2002	1990							

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1986 - 2004

ANNUAL TOTAL	60715	46398.0		
ANNUAL MEAN	166	127	155	
HIGHEST ANNUAL MEAN			421	1998
LOWEST ANNUAL MEAN			40.1	2002
HIGHEST DAILY MEAN	1630	Mar 21	4640	Sep 28
LOWEST DAILY MEAN	10	Oct 5	1.5	Aug 9
ANNUAL SEVEN-DAY MINIMUM	12	Sep 30	2.1	Aug 4
MAXIMUM PEAK FLOW			5840	Sep 28
MAXIMUM PEAK STAGE			15.07	Sep 28
INSTANTANEOUS LOW FLOW			1.5	Aug 8
ANNUAL RUNOFF (CFSM)	1.02		0.778	
ANNUAL RUNOFF (INCHES)	13.86		10.59	
10 PERCENT EXCEEDS	381		218	364
50 PERCENT EXCEEDS	102		62	59
90 PERCENT EXCEEDS	39		8.1	11

e Estimated

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

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 LATITUDE 321422 LONGITUDE 0833006 NAD83 DRAINAGE AREA 163 CONTRIBUTING DRAINAGE AREA 163* DATUM 210.49 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	1.49	2.06	2.19	2.03	2.89	4.94	2.18	2.16	1.40	1.29	---	1.13
2	1.48	1.95	2.08	2.02	2.67	4.36	2.11	2.94	1.46	1.37	---	1.89
3	1.48	1.91	2.01	2.02	2.59	3.96	2.05	3.42	1.45	1.67	---	1.96
4	1.46	1.86	2.05	2.02	2.54	3.70	2.02	3.03	1.43	1.63	---	1.65
5	1.45	1.90	2.23	2.03	2.47	3.61	1.96	2.34	1.42	1.46	---	1.44
6	1.45	1.93	2.32	2.09	2.59	3.40	1.93	2.09	1.36	1.36	---	1.53
7	1.91	2.00	2.22	2.13	3.60	3.22	1.92	1.97	1.34	1.31	0.80	7.21
8	2.90	1.95	2.12	2.09	4.73	3.07	2.05	1.86	1.32	1.28	0.78	11.44
9	3.68	1.90	2.08	2.06	4.43	2.86	2.23	1.77	1.33	1.30	0.77	10.13
10	3.50	1.85	2.09	2.12	3.26	2.72	2.15	1.70	1.32	1.27	0.84	8.22
11	2.52	1.81	2.16	2.12	2.91	2.68	2.02	1.65	1.30	1.25	1.06	6.30
12	2.18	1.80	2.16	2.07	3.40	2.64	1.96	1.62	1.29	1.21	1.32	4.93
13	2.05	1.80	2.13	2.03	5.02	2.58	1.95	1.66	1.31	1.17	1.39	4.49
14	1.97	1.78	2.24	2.01	7.24	2.53	2.16	2.14	1.30	1.12	1.27	3.80
15	1.90	1.76	2.42	2.00	6.92	2.53	2.02	2.03	1.28	1.23	1.20	3.31
16	1.82	1.76	2.38	2.00	6.81	2.52	1.91	1.80	1.28	1.17	1.16	3.13
17	1.78	1.77	2.28	1.98	6.06	2.49	1.85	1.69	1.28	1.08	1.12	3.20
18	1.87	1.78	2.27	1.99	4.82	2.46	1.80	1.66	1.30	1.06	1.10	3.14
19	1.88	2.24	2.23	2.04	4.16	2.42	1.79	1.97	1.32	1.20	1.09	3.22
20	1.81	2.74	2.16	2.04	3.78	2.32	1.73	2.18	1.27	1.49	1.06	2.85
21	1.77	2.82	2.11	2.01	3.54	2.28	1.70	2.03	1.26	1.30	1.17	2.43
22	1.74	2.33	2.06	1.96	3.36	2.23	1.68	1.96	1.39	1.21	1.21	2.23
23	1.70	2.19	2.05	1.96	3.15	2.18	1.64	1.74	1.47	1.15	1.54	2.13
24	1.67	2.07	2.11	1.94	3.02	2.14	1.58	1.62	1.49	1.12	1.49	2.04
25	1.65	2.00	2.20	1.97	3.14	2.12	1.57	1.55	1.48	1.09	1.37	1.98
26	1.66	1.95	2.20	2.41	4.87	2.12	1.57	1.50	1.41	1.07	1.25	1.93
27	1.78	1.92	2.13	4.08	7.29	2.11	1.69	1.43	1.36	1.08	1.18	5.53
28	2.04	1.94	2.09	6.78	8.24	2.10	1.72	1.39	1.35	1.12	1.14	13.88
29	2.44	2.16	2.07	6.27	6.43	2.08	1.63	1.36	1.32	1.09	1.12	12.02
30	2.50	2.30	2.06	4.08	---	2.06	1.60	1.35	1.28	---	1.10	9.29
31	2.25	---	2.05	3.27	---	2.19	---	1.36	---	---	1.08	---
MEAN	1.99	2.01	2.16	2.50	4.34	2.73	1.87	1.90	1.35	---	---	4.61
MAX	3.68	2.82	2.42	6.78	8.24	4.94	2.23	3.42	1.49	---	---	13.88
MIN	1.45	1.76	2.01	1.94	2.47	2.06	1.57	1.35	1.26	---	---	1.13

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 LATITUDE 321422 LONGITUDE 0833006 NAD83 DRAINAGE AREA 163 CONTRIBUTING DRAINAGE AREA 163* DATUM 210.49 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	1.36	0.56	0.01	0.00	3.73
2	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.84	0.02	0.43	0.18	0.10
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4	0.00	0.48	0.64	0.00	0.00	0.00	0.00	---	0.01	0.00	0.00	0.00
5	0.00	0.01	0.01	0.17	0.03	0.00	0.00	---	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	1.16	0.01	0.00	---	0.00	0.00	0.00	5.20
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	1.31
8	0.00	0.00	0.00	0.09	0.00	0.00	0.60	0.00	0.29	0.10	0.00	0.04
9	0.00	0.00	0.00	0.13	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.42	0.00	0.01	---	0.00	0.00	0.00	0.31	1.41	0.41
11	0.00	0.00	0.00	0.00	0.15	---	0.00	0.00	0.00	0.00	0.80	0.00
12	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.16	0.00	0.02	0.03	0.00
13	0.00	0.00	0.14	0.00	0.00	0.00	0.32	0.01	0.04	0.00	0.02	0.28
14	0.00	0.00	0.58	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.09	0.00
15	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01
16	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.19	0.00	0.00	0.00	0.55
17	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.02	0.14
18	0.00	0.38	0.00	0.10	0.00	0.00	0.00	0.06	0.00	0.22	0.00	0.00
19	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
23	0.00	0.00	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	---	0.05	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	---	0.00	0.00	0.32	1.61	0.00	0.00	0.00	---	0.00	0.00	0.00
26	---	0.00	0.00	1.66	0.04	0.00	0.77	0.00	0.06	0.09	0.00	0.02
27	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.00	5.86
28	1.25	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
29	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
30	0.00	0.00	0.00	0.00	---	0.25	0.59	0.00	0.00	0.11	0.06	0.00
31	0.00	---	0.00	0.00	---	0.10	---	0.35	---	0.00	0.05	---
TOTAL	---	1.82	2.13	2.47	5.25	---	2.28	---	---	1.42	3.25	17.65