



# 2004 Water Year ALTAMAHA RIVER BASIN

## 02204070 SOUTH RIVER AT KLONDIKE ROAD, NEAR LITHONIA, GA

Latitude: 33° 37' 47"  
De kalb County

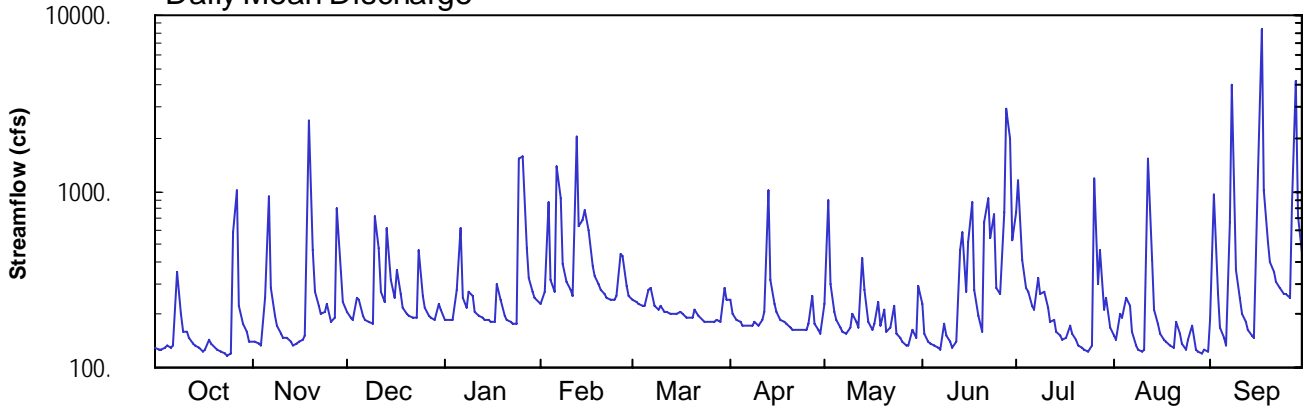
Longitude: 084° 07' 43"

Datum: 660.90 feet

Hydrologic Unit Code: 03070103

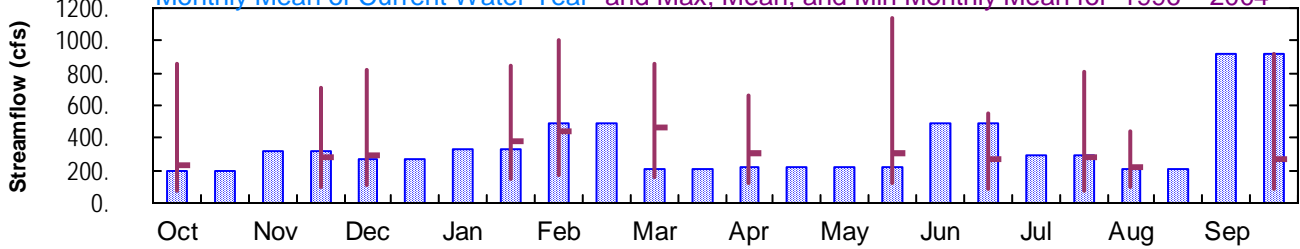
Drainage Area: 182. mi<sup>2</sup>

### Daily Mean Discharge

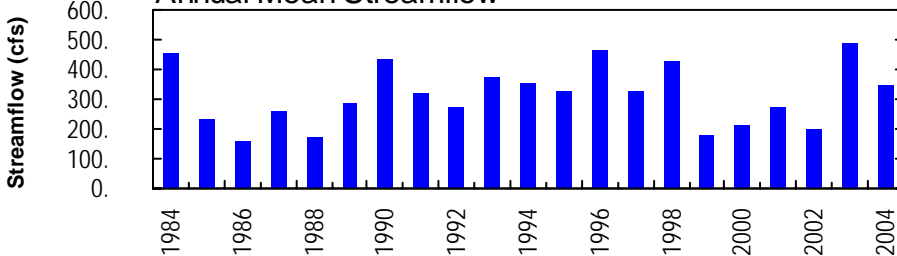


### Monthly Statistics

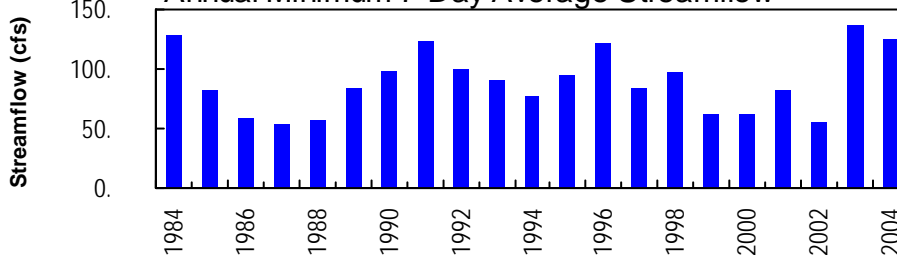
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1996–2004



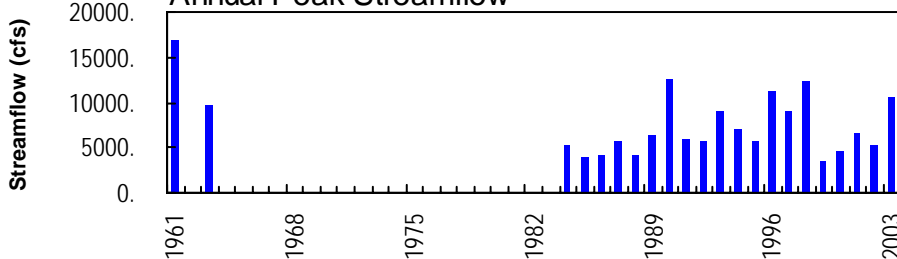
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



02204070 South River @ Klondike Rd near Lithonia, GA

**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02204070 SOUTH RIVER AT KLONDIKE ROAD, NEAR LITHONIA, GA**

**LOCATION.**—Lat 33°37'47", long 84°07'43" referenced to North American Datum (NAD) of 1927, Dekalb-Rockdale County line, Hydrologic Unit 03070103, at downstream end of pier of bridge on Klondike Road, 1.1 miles south of GA 212, 1.2 miles downstream from Pole Bridge Creek, 5.8 miles southwest of Lithonia, and 8.6 miles downstream from Snapfinger Creek.

**DRAINAGE AREA.**—182 square miles.

**COOPERATION.**—Georgia Environmental Protection Division.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**—September 29, 1983 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 660.90 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels from Dekalb County benchmark).

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

**EXTREMES OUTSIDE PERIOD OF RECORD.**—Flood of April 30, 1963 reached a stage of 11.80 feet, discharge 9,630 cfs.

**PEAK DISCHARGES FOR CURRENT YEAR.**—Peak discharges greater than base discharge of 4,000 cfs and the maximum (\*).

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
11/19	1345	4,780	9.33
02/06	2015	4,080	8.95
02/12	1345	4,340	9.10
06/28	0215	5,210	9.60
06/29	0500	4,240	9.04
09/17	1100	11,300*	12.54*
09/28	0500	5,440	9.72

**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02204070 SOUTH RIVER AT KLONDIKE ROAD, NEAR LITHONIA, GA—continued.**

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**—September 29, 1983 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 660.90 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels from Dekalb County benchmark).

**REMARKS.**—Records fair.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 12.54 feet, September 17; minimum gage-height recorded, 5.02 feet, September 1.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—February 5, 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 02204070 SOUTH RIVER AT KLONDIKE ROAD, NEAR LITHONIA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 089  
 LATITUDE 333747 LONGITUDE 0840743 NAD27 DRAINAGE AREA 182.00 CONTRIBUTING DRAINAGE AREA 182\* DATUM 660.90 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	129	139	205	188	227	243	245	232	230	758	151	188
2	128	139	192	185	267	236	201	887	156	1150	144	965
3	127	136	185	185	872	229	185	301	142	409	204	259
4	130	134	250	184	318	226	182	208	138	285	e190	167
5	132	245	245	274	267	222	173	186	133	272	e248	147
6	130	941	195	619	1400	279	171	169	129	226	226	134
7	134	282	185	251	914	282	172	161	127	213	159	e676
8	344	196	180	220	382	224	173	158	178	325	134	e3990
9	201	173	176	271	308	212	182	168	152	264	127	361
10	160	154	719	253	277	225	172	202	141	269	125	247
11	158	147	471	206	257	208	185	181	131	219	126	201
12	148	148	266	198	2030	205	207	167	139	180	1550	180
13	137	142	234	192	640	201	1010	423	465	188	411	162
14	134	133	612	188	689	203	314	278	584	161	214	151
15	131	138	315	188	790	203	231	181	269	152	175	149
16	124	139	246	183	606	208	208	164	516	146	157	1320
17	125	144	359	184	382	202	188	178	863	146	146	8380
18	145	150	261	301	327	192	181	235	273	174	139	1000
19	135	2500	217	240	296	194	177	171	194	155	134	515
20	129	469	202	196	277	193	169	215	162	145	130	402
21	127	271	196	185	263	214	166	159	671	134	184	349
22	123	222	193	182	249	196	164	170	922	131	157	305
23	119	199	193	178	242	187	163	224	543	128	138	280
24	118	207	460	177	244	184	163	157	740	124	128	265
25	120	231	258	1530	255	184	164	146	287	133	143	259
26	588	183	219	1590	444	184	175	140	264	1180	174	250
27	1020	192	199	474	425	184	253	134	768	298	126	846
28	226	801	192	323	294	185	176	134	2950	466	123	4280
29	179	345	189	269	253	183	164	164	2010	211	121	717
30	158	239	232	247	---	283	157	149	528	249	128	452
31	142	---	212	234	---	245	---	289	---	170	123	---
TOTAL	5901	9539	8258	10095	14195	6616	6471	6731	14805	9061	6435	27597
MEAN	190	318	266	326	489	213	216	217	494	292	208	920
MAX	1020	2500	719	1590	2030	283	1010	887	2950	1180	1550	8380
MIN	118	133	176	177	227	183	157	134	127	124	121	134
CFSM	1.05	1.75	1.46	1.79	2.69	1.17	1.19	1.19	2.71	1.61	1.14	5.05
IN.	1.21	1.95	1.69	2.06	2.90	1.35	1.32	1.38	3.03	1.85	1.32	5.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

	234	285	296	384	444	467	308	301	272	286	215	269
MEAN	234	285	296	384	444	467	308	301	272	286	215	269
MAX	852	712	817	840	1010	852	666	1133	550	804	447	920
(WY)	1996	1993	1984	1990	1990	1990	1998	2003	2003	1994	1984	2004
MIN	68.0	97.5	112	144	170	165	127	124	84.4	77.9	92.7	82.9
(WY)	1988	2002	1989	1986	1986	1988	1986	1988	1988	1988	2002	1987

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1984 - 2004

ANNUAL TOTAL	164605	125704	
ANNUAL MEAN	451	343	313
HIGHEST ANNUAL MEAN			488
LOWEST ANNUAL MEAN			159
HIGHEST DAILY MEAN	8330	May 6	8380
LOWEST DAILY MEAN	118	Oct 24	118
ANNUAL SEVEN-DAY MINIMUM	124	Oct 19	124
MAXIMUM PEAK FLOW			11300
MAXIMUM PEAK STAGE			12.54
ANNUAL RUNOFF (CFSM)	2.48		1.89
ANNUAL RUNOFF (INCHES)	33.64		25.69
10 PERCENT EXCEEDS	676		625
50 PERCENT EXCEEDS	240		198
90 PERCENT EXCEEDS	144		134

e Estimated

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

STATION NUMBER 02204070 SOUTH RIVER AT KLONDIKE ROAD, NEAR LITHONIA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 089  
 LATITUDE 333747 LONGITUDE 0840743 NAD27 DRAINAGE AREA 182.00 CONTRIBUTING DRAINAGE AREA 182\* DATUM 660.90 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	5.15	5.19	5.34	5.30	5.40	5.44	5.44	5.40	5.39	6.22	5.19	5.19
2	5.15	5.19	5.31	5.29	5.46	5.42	5.33	6.33	5.20	6.65	5.16	6.45
3	5.15	5.18	5.29	5.29	6.32	5.40	5.29	5.55	5.16	5.74	5.33	5.46
4	5.16	5.17	5.44	5.29	5.59	5.39	5.28	5.35	5.14	5.52	---	5.24
5	5.16	5.35	5.43	5.44	5.49	5.38	5.25	5.29	5.13	5.50	---	5.17
6	5.16	6.30	5.32	6.01	6.59	5.50	5.25	5.24	5.11	5.39	---	5.13
7	5.17	5.52	5.29	5.45	6.37	5.51	5.25	5.22	5.11	5.36	5.21	---
8	5.56	5.34	5.28	5.38	5.70	5.39	5.25	5.21	5.27	5.57	5.13	---
9	5.35	5.29	5.26	5.49	5.57	5.36	5.28	5.23	5.19	5.44	5.11	5.66
10	5.25	5.23	6.05	5.45	5.51	5.39	5.25	5.33	5.15	5.48	5.10	5.44
11	5.24	5.21	5.83	5.35	5.47	5.35	5.29	5.28	5.12	5.38	5.10	5.34
12	5.21	5.21	5.48	5.33	7.28	5.35	5.35	5.24	5.14	5.27	6.76	5.27
13	5.18	5.20	5.41	5.31	6.08	5.33	6.47	5.76	5.79	5.29	5.73	5.22
14	5.17	5.17	6.03	5.30	6.14	5.34	5.57	5.50	6.00	5.22	5.37	5.18
15	5.16	5.18	5.58	5.29	6.27	5.34	5.41	5.28	5.48	5.19	5.26	5.18
16	5.14	5.18	5.44	5.28	6.03	5.35	5.35	5.23	5.88	5.17	5.21	6.24
17	5.14	5.20	5.65	5.28	5.70	5.34	5.30	5.27	6.33	5.17	5.17	11.19
18	5.20	5.22	5.47	5.54	5.61	5.31	5.28	5.41	5.49	5.25	5.15	6.50
19	5.17	7.60	5.37	5.42	5.55	5.32	5.26	5.25	5.31	5.20	5.13	5.91
20	5.15	5.83	5.34	5.32	5.51	5.31	5.24	5.36	5.22	5.17	5.12	5.73
21	5.15	5.49	5.32	5.29	5.48	5.36	5.23	5.21	5.84	5.13	5.28	5.64
22	5.13	5.38	5.31	5.28	5.45	5.32	5.23	5.24	6.33	5.12	5.21	5.56
23	5.12	5.33	5.31	5.27	5.43	5.29	5.23	5.38	5.94	5.11	5.15	5.51
24	5.12	5.35	5.80	5.27	5.44	5.28	5.23	5.21	6.17	5.10	5.11	5.48
25	5.12	5.40	5.47	6.73	5.46	5.28	5.23	5.17	5.52	5.12	5.15	5.47
26	5.69	5.28	5.38	7.01	5.79	5.28	5.26	5.15	5.48	6.62	5.25	5.45
27	6.36	5.30	5.33	5.85	5.77	5.28	5.45	5.13	5.94	5.54	5.10	6.08
28	5.41	6.29	5.31	5.60	5.54	5.29	5.26	5.13	8.05	5.80	5.09	9.02
29	5.30	5.63	5.30	5.49	5.46	5.28	5.23	5.23	7.33	5.36	5.08	6.18
30	5.24	5.42	5.40	5.45	---	5.49	5.21	5.18	5.89	5.44	5.11	5.81
31	5.20	---	5.36	5.41	---	5.43	---	5.45	---	5.24	5.09	---
MEAN	5.25	5.45	5.45	5.50	5.77	5.36	5.33	5.33	5.67	5.44	---	---
MAX	6.36	7.60	6.05	7.01	7.28	5.51	6.47	6.33	8.05	6.65	---	---
MIN	5.12	5.17	5.26	5.27	5.40	5.28	5.21	5.13	5.11	5.10	---	---

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

STATION NUMBER 02204070 SOUTH RIVER AT KLONDIKE ROAD, NEAR LITHONIA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 089  
 LATITUDE 333747 LONGITUDE 0840743 NAD27 DRAINAGE AREA 182.00 CONTRIBUTING DRAINAGE AREA 182\* DATUM 660.90 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	0.39	0.00	0.84	0.00	0.17
2	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.52	0.00	0.05	0.00	0.90
3	0.00	0.00	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.01	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
5	0.00	1.32	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
6	0.05	0.06	0.00	0.00	1.15	0.22	0.00	0.00	0.00	0.06	---	0.42
7	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.26	0.00	---
8	0.09	0.00	0.00	0.06	0.00	0.00	0.07	0.00	0.25	0.01	0.00	---
9	0.00	0.00	0.00	0.21	0.00	0.05	0.00	0.09	0.48	0.00	0.00	0.00
10	0.01	0.00	0.88	0.01	0.00	0.00	0.00	0.01	0.00	0.22	0.06	0.00
11	0.00	0.00	0.00	0.00	0.19	0.00	0.11	0.00	0.00	0.01	0.00	0.00
12	0.00	0.00	0.00	0.00	1.20	0.00	0.32	0.96	2.38	0.00	1.59	0.00
13	0.00	0.00	0.32	0.00	0.00	0.00	0.36	0.04	0.91	0.00	0.00	0.00
14	0.04	---	0.29	0.00	0.52	0.00	0.01	0.01	1.31	0.00	0.00	0.00
15	0.00	---	0.00	0.00	0.29	0.00	0.00	0.00	0.22	0.00	0.00	0.00
16	0.00	---	0.16	0.00	0.00	0.05	0.00	0.00	1.84	0.00	0.00	3.05
17	0.05	---	0.16	0.31	0.01	0.00	0.00	0.00	0.01	0.01	0.29	0.22
18	0.00	0.38	0.00	0.14	0.00	0.00	0.00	0.02	0.14	0.00	0.00	0.00
19	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.23	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	0.04	0.00	0.03	0.00
21	0.00	0.00	0.00	0.00	0.01	0.09	0.00	0.00	0.70	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.04	0.00	0.00	0.00
23	0.00	0.00	0.38	0.00	0.00	0.00	0.01	0.00	0.33	0.00	0.00	0.00
24	0.00	0.17	0.00	0.00	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	2.05	---	0.00	0.00	0.00	0.59	1.88	0.00	0.00
26	2.34	0.00	0.00	0.11	---	0.00	0.23	0.00	0.00	0.18	0.00	0.00
27	0.00	0.55	0.00	0.00	---	0.00	0.00	0.00	1.08	0.30	0.00	2.59
28	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.05	1.46	0.00	0.00	0.00
29	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.00
30	0.00	0.00	0.06	0.00	---	0.30	0.27	0.00	0.41	0.00	0.11	0.00
31	0.00	---	0.00	0.00	---	0.13	---	0.46	---	0.00	0.00	---
TOTAL	2.64	---	2.68	3.51	---	0.84	1.38	2.91	13.66	3.83	---	---