



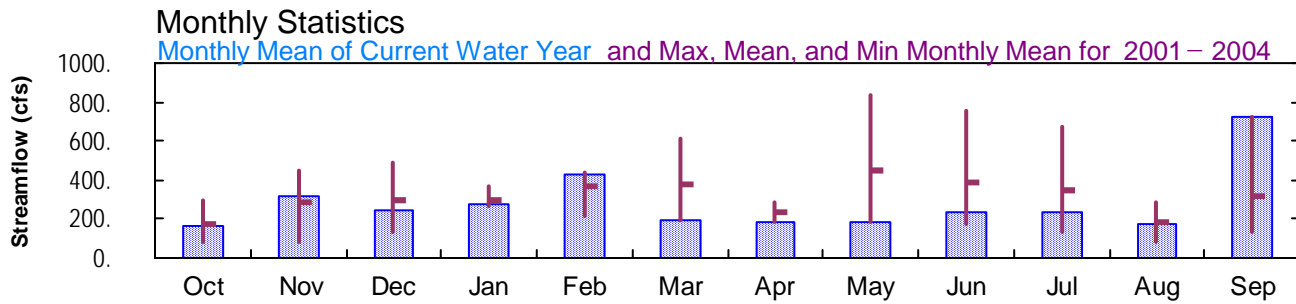
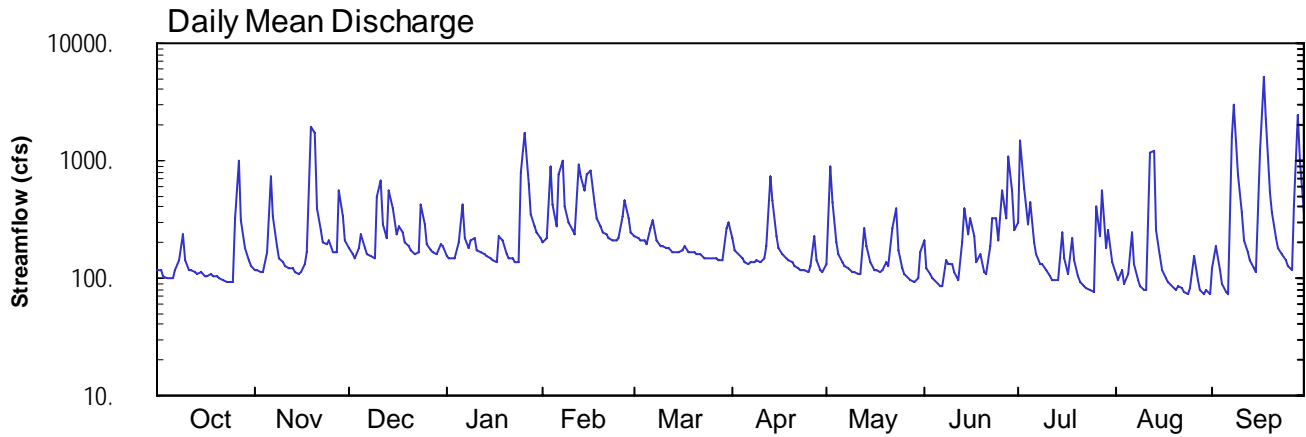
2004 Water Year
ALTAMAHA RIVER BASIN

02207120 YELLOW RIVER AT GA 124, NEAR LITHONIA, GA

Latitude: 33° 46 ' 22"
Gwinnett County

Longitude: 084° 03 ' 30"
Datum: 770.00 feet

Hydrologic Unit Code: 03070103
Drainage Area: 162. mi²



**ALTAMAHA RIVER BASIN
2004 Water Year**

02207120 YELLOW RIVER AT GA 124, NEAR LITHONIA, GA

LOCATION.—Lat 33°46'22", long 84°03'30" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03070103, on GA 124 bridge, 5.0 miles south of the intersection of GA 124 and US 78.

DRAINAGE AREA.—162 square miles.

COOPERATION.—Gwinnett County Department of Public Utilities.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 16, 2001 to current year.

GAGE.—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 770.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

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

WATER-STAGE RECORDS

PERIOD OF RECORD.—August 16, 2001 to current year.

GAGE.—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 770.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height, 14.39 feet, September 17; minimum gage-height, 2.86 feet, July 25.

PRECIPITATION RECORDS

PERIOD OF RECORD.—August 16, 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 02207120 YELLOW RIVER AT GA 124, NEAR LITHONIA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135
 LATITUDE 334622 LONGITUDE 0840330 NAD27 DRAINAGE AREA 162.0* CONTRIBUTING DRAINAGE AREA DATUM 770.00 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	117	118	178	157	199	228	214	130	210	304	108	123
2	118	116	158	149	222	219	173	905	123	1450	97	187
3	105	114	149	148	898	214	157	435	106	576	119	119
4	99	112	179	147	417	206	148	201	99	292	89	88
5	101	164	237	201	273	195	138	157	92	436	109	77
6	100	730	181	431	753	267	134	137	86	202	244	74
7	115	339	162	221	1010	316	134	127	85	159	131	1590
8	e140	189	156	178	412	213	134	120	142	133	98	2970
9	e240	150	148	213	296	187	140	113	133	132	87	758
10	143	135	500	220	255	187	135	112	130	119	80	357
11	119	126	672	175	235	181	147	107	111	105	80	212
12	115	123	288	164	930	178	189	110	95	98	1180	168
13	111	119	219	158	732	169	741	269	198	95	1220	141
14	108	114	554	153	547	167	461	183	396	95	257	124
15	112	110	389	149	758	168	224	134	236	247	154	112
16	105	112	240	142	830	175	180	118	321	147	116	1230
17	103	132	280	139	420	190	162	118	229	107	98	e5200
18	109	168	241	223	317	168	148	113	138	218	92	2290
19	105	1980	199	210	272	163	142	115	162	143	86	537
20	102	1750	184	162	245	163	136	139	112	102	80	365
21	100	398	170	150	234	163	129	125	109	91	86	220
22	97	256	161	145	222	157	124	263	184	86	83	179
23	93	203	166	139	209	147	119	400	318	83	77	157
24	93	195	424	136	209	146	116	170	316	79	75	140
25	92	214	288	785	215	147	114	120	211	77	82	125
26	322	167	193	1730	337	147	126	107	552	410	155	117
27	1000	169	176	626	455	146	223	101	322	229	94	427
28	315	547	164	351	323	144	140	96	1100	551	78	2440
29	177	340	159	271	249	144	119	92	567	177	72	967
30	142	209	196	242	---	262	114	100	252	256	80	366
31	127	---	186	217	---	297	---	169	---	135	74	---
TOTAL	4925	9599	7597	8532	12474	5854	5361	5586	7135	7334	5481	21860
MEAN	159	320	245	275	430	189	179	180	238	237	177	729
MAX	1000	1980	672	1730	1010	316	741	905	1100	1450	1220	5200
MIN	92	110	148	136	199	144	114	92	85	77	72	74
CFSM	0.98	1.98	1.51	1.70	2.66	1.17	1.10	1.11	1.47	1.46	1.09	4.50
IN.	1.13	2.20	1.74	1.96	2.86	1.34	1.23	1.28	1.64	1.68	1.26	5.02

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	178	285	291	301	363	378	232	446	391	351	181	320
MAX	296	453	493	366	438	614	284	839	757	678	282	729
(WY)	2003	2003	2003	2002	2003	2003	2003	2003	2003	2003	2003	2004
MIN	79.7	82.5	135	262	219	189	179	180	178	137	84.7	128
(WY)	2002	2002	2002	2003	2002	2004	2004	2004	2002	2002	2002	2001

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 2001 - 2004

ANNUAL TOTAL	153412	101738		
ANNUAL MEAN	420	278	315	
HIGHEST ANNUAL MEAN			464	2003
LOWEST ANNUAL MEAN			202	2002
HIGHEST DAILY MEAN	5280	Jul 2	e 5200	Sep 17
LOWEST DAILY MEAN	92	Oct 25	72	Aug 29
ANNUAL SEVEN-DAY MINIMUM	97	Oct 19	81	Aug 19
MAXIMUM PEAK FLOW			6840	May 6 2003
MAXIMUM PEAK STAGE			14.39	Sep 17
ANNUAL RUNOFF (CFSM)	2.59		1.72	16.77
ANNUAL RUNOFF (INCHES)	35.23		23.36	1.94
10 PERCENT EXCEEDS	711		540	26.39
50 PERCENT EXCEEDS	237		162	620
90 PERCENT EXCEEDS	117		97	170
				78

e Estimated

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

STATION NUMBER 02207120 YELLOW RIVER AT GA 124, NEAR LITHONIA, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 135
 LATITUDE 334622 LONGITUDE 0840330 NAD27 DRAINAGE AREA 162.0* CONTRIBUTING DRAINAGE AREA DATUM 770.00 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	3.23	3.24	3.57	3.46	3.60	3.72	3.66	3.25	3.63	4.01	3.12	3.24
2	3.24	3.23	3.47	3.42	3.68	3.68	3.47	5.63	3.21	6.98	3.06	3.65
3	3.16	3.21	3.42	3.41	5.67	3.66	3.39	4.42	3.12	4.82	3.18	3.29
4	3.11	3.20	3.57	3.41	4.38	3.63	3.35	3.60	3.07	3.96	3.00	3.08
5	3.13	3.43	3.84	3.65	3.90	3.58	3.30	3.40	3.02	4.41	3.11	3.00
6	3.12	5.41	3.58	4.54	5.17	3.85	3.27	3.29	2.98	3.61	3.76	2.97
7	3.22	4.22	3.49	3.77	5.95	4.05	3.28	3.23	2.97	3.40	3.25	6.99
8	---	3.62	3.45	3.57	4.37	3.66	3.28	3.19	3.30	3.27	3.06	9.70
9	---	3.42	3.41	3.73	3.99	3.55	3.31	3.15	3.27	3.26	2.98	5.47
10	3.38	3.34	4.59	3.77	3.83	3.54	3.28	3.15	3.25	3.19	2.94	4.29
11	3.25	3.29	5.25	3.55	3.76	3.52	3.34	3.12	3.14	3.11	2.94	3.73
12	3.22	3.27	4.04	3.49	5.67	3.50	3.55	3.14	3.04	3.06	6.08	3.52
13	3.20	3.25	3.76	3.46	5.25	3.45	5.23	3.87	3.55	3.04	6.47	3.37
14	3.18	3.21	4.91	3.44	4.77	3.44	4.51	3.52	4.32	3.04	3.94	3.27
15	3.20	3.19	4.40	3.42	5.32	3.45	3.70	3.27	3.76	3.76	3.48	3.20
16	3.16	3.20	3.85	3.38	5.51	3.48	3.51	3.18	4.07	3.34	3.28	5.41
17	3.14	3.31	4.01	3.36	4.40	3.55	3.42	3.18	3.71	3.12	3.16	12.81
18	3.18	3.52	3.86	3.77	4.06	3.45	3.35	3.16	3.29	3.66	3.12	8.15
19	3.16	7.93	3.67	3.72	3.90	3.42	3.32	3.17	3.42	3.32	3.07	4.88
20	3.14	7.50	3.60	3.48	3.79	3.42	3.29	3.30	3.14	3.09	3.02	4.33
21	3.13	4.43	3.53	3.42	3.75	3.42	3.24	3.22	3.13	3.01	3.07	3.77
22	3.10	3.92	3.48	3.40	3.70	3.39	3.21	3.69	3.52	2.98	3.04	3.57
23	3.08	3.69	3.51	3.36	3.64	3.35	3.19	4.31	4.06	2.95	3.00	3.46
24	3.08	3.65	4.50	3.34	3.64	3.34	3.17	3.45	4.05	2.93	2.97	3.37
25	3.07	3.74	4.04	5.25	3.67	3.35	3.16	3.19	3.61	2.91	3.04	3.28
26	3.90	3.51	3.64	7.61	4.12	3.35	3.23	3.12	4.78	4.33	3.46	3.23
27	6.07	3.52	3.56	4.98	4.51	3.34	3.69	3.08	4.01	3.71	3.13	4.17
28	4.13	4.90	3.50	4.17	4.08	3.33	3.30	3.05	6.14	4.75	3.00	8.94
29	3.56	4.23	3.47	3.89	3.81	3.33	3.19	3.02	4.82	3.49	2.96	5.96
30	3.38	3.72	3.65	3.78	---	3.79	3.16	3.07	3.81	3.82	3.02	4.32
31	3.30	---	3.61	3.68	---	3.98	---	3.40	---	3.27	2.97	---
MEAN	---	3.91	3.81	3.83	4.34	3.53	3.44	3.41	3.64	3.60	3.34	4.75
MAX	---	7.93	5.25	7.61	5.95	4.05	5.23	5.63	6.14	6.98	6.47	12.81
MIN	---	3.19	3.41	3.34	3.60	3.33	3.16	3.02	2.97	2.91	2.94	2.97

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 LATITUDE 334622 LONGITUDE 0840330 NAD27 DRAINAGE AREA 162.0* CONTRIBUTING DRAINAGE AREA DATUM 770.00 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	0.01	0.48	0.00	0.13	0.00	0.57
2	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.62	0.00	0.03	0.00	0.33
3	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01
4	0.00	0.01	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00
5	0.00	1.08	0.03	0.78	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00
6	0.03	0.04	0.00	0.00	1.31	0.20	0.00	0.00	0.00	0.01	0.00	0.22
7	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.07	0.00	4.55
8	---	0.00	0.00	0.04	0.00	0.00	0.03	0.00	0.41	0.00	0.00	0.04
9	---	0.00	0.00	0.28	0.00	0.01	0.00	0.04	0.02	1.26	0.00	0.00
10	0.12	0.00	1.02	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00
11	0.00	0.00	0.00	0.00	0.22	0.00	0.11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	1.11	0.00	0.58	0.82	1.12	0.00	1.93	0.00
13	0.00	0.00	0.49	0.00	0.00	0.00	0.41	0.29	0.79	0.00	0.00	0.00
14	0.02	0.00	0.30	0.00	0.52	0.00	0.01	0.00	0.19	0.38	0.00	0.00
15	0.00	0.00	0.01	0.00	0.39	0.00	0.00	0.00	0.20	0.00	0.00	0.00
16	0.00	0.00	0.09	0.00	0.00	0.09	0.00	0.00	2.11	0.00	0.00	3.97
17	0.17	0.05	0.24	0.28	0.00	0.00	0.00	0.01	0.00	0.23	0.00	0.23
18	0.01	0.52	0.00	0.13	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00
19	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.10	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	0.04	0.00
21	0.00	0.00	0.00	0.00	0.03	0.09	0.00	0.00	0.47	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.10	0.00	0.00	0.00
23	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00
24	0.00	0.23	0.01	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00
25	0.00	0.00	0.00	2.37	0.24	0.00	0.00	0.00	0.18	0.97	0.00	0.00
26	1.49	0.00	0.00	0.10	0.42	0.00	0.25	0.00	0.00	0.23	0.00	0.00
27	0.01	0.80	0.00	0.00	0.28	0.00	0.01	0.00	1.44	0.19	0.00	2.37
28	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00
29	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00
30	0.00	0.00	0.08	0.00	---	0.37	0.02	0.00	0.13	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.13	---	0.42	---	0.00	0.00	---
TOTAL	---	4.39	3.40	4.00	5.32	0.91	1.43	3.20	9.94	4.42	3.05	12.29