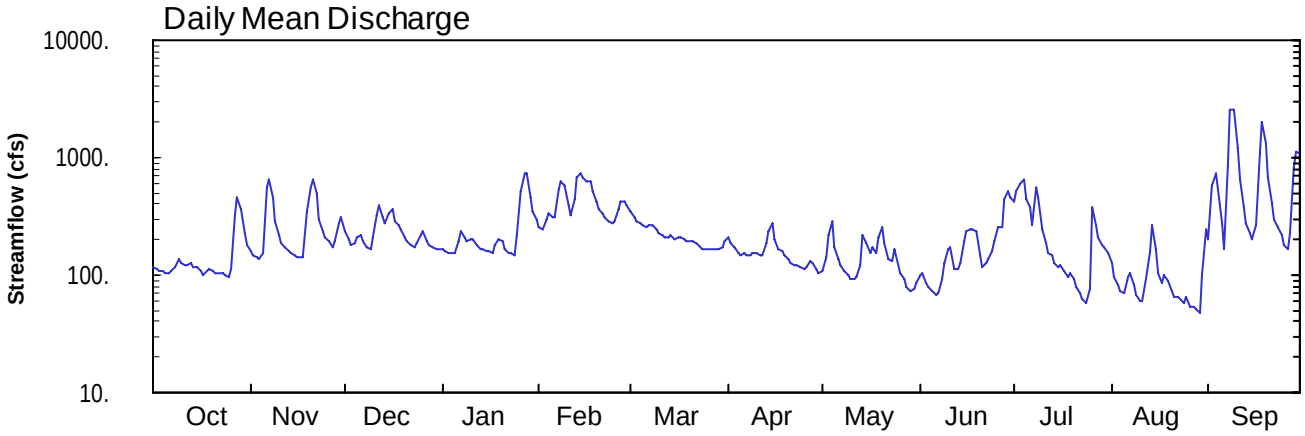
2004 Water Year

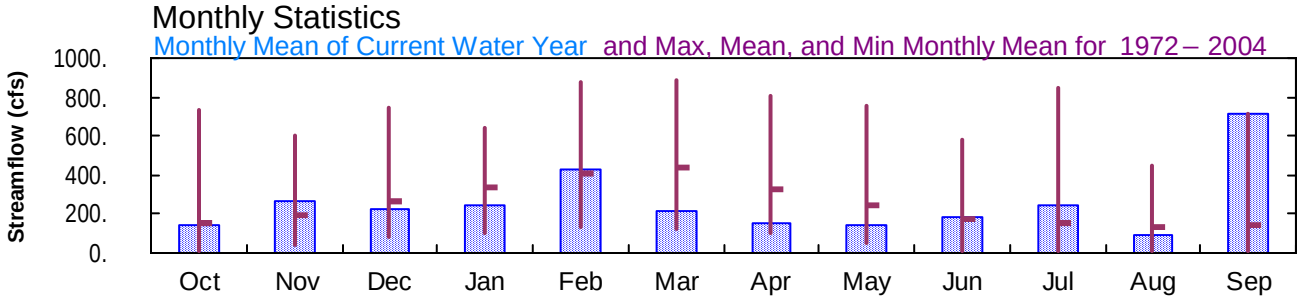
ALTAMAHA RIVER BASIN

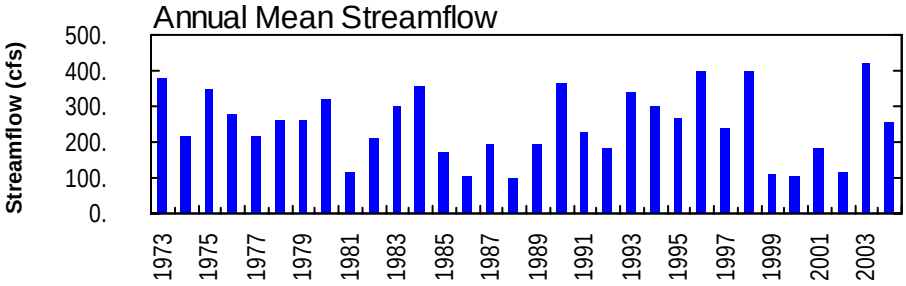
02208450 ALCOVY RIVER ABOVE COVINGTON, GA

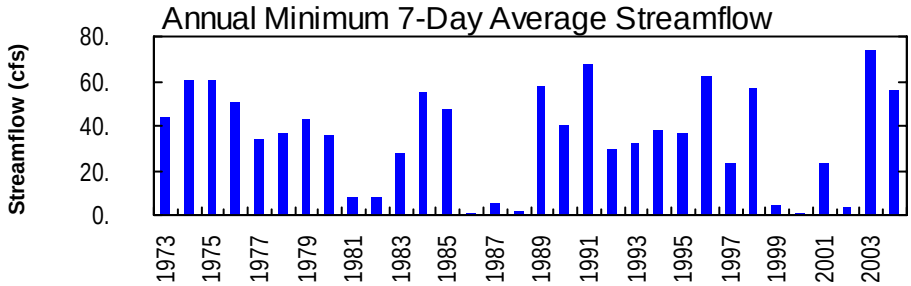
Latitude: 33°38'24" Longitude: 083°46'45" Hydrologic Unit Code: 03070103

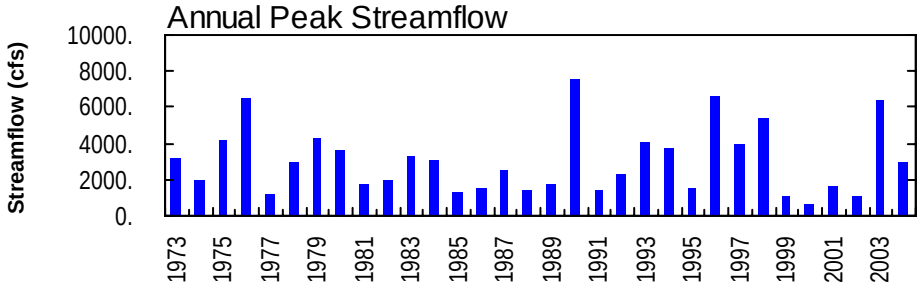
Newton County Datum: 646.10 feet Drainage Area: 185. mi^2











02208450 ALCOVY RIVER ABOVE COVINGTON, GA

LOCATION.—Lat 33°38'24", long 83°46'45" referenced to North American Datum (NAD) of 1927, Newton County, Hydrologic Unit 03070103, at bridge on Alcovy Road, 200.0 feet downstream from Strouds Creek, 200.0 feet upstream from Georgia Railroad bridge, and 6.0 miles northeast of Covington.

DRAINAGE AREA.—185 square miles, approximately, includes that of Strouds Creek.

COOPERATION.—City of Covington.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1972 to current year.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 646.10 feet above National Geodetic Vertical Datum (NGVD) of 1929 (leveling by Global Positioning System equipment). Prior to October 1986, at site 400 feet upstream at same datum.

REMARKS.—Records good, except for periods of estimated discharges, which are fair. Peak discharge for the 2004 water year was determined from hydrograph estimation. Discharge affected by diversions for irrigation.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,800 cfs and maximum (*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
09/09	unknown	2,970*	unknown
09/18	1700	2,420	10.48

WATER-STAGE RECORDS

PERIOD OF RECORD.—January 1972 to current year.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 646.10 feet above National Geodetic Vertical Datum (NGVD) of 1929 (leveling by Global Positioning System equipment). Prior to October 1986, at site 400 feet upstream at same datum.

REMARKS.—Records good. Peak stage for 2004 water year occurred during period of missing record on September 9.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 10.96 feet, September 9; minimum gage-height recorded, 1.86 feet, August 29.

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

STATION NUMBER 02208450 ALCOVY RIVER ABOVE COVINGTON, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 217
LATITUDE 333824 LONGITUDE 0834645 NAD27 DRAINAGE AREA 185 CONTRIBUTING DRAINAGE AREA 185* DATUM 646.10 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	118	159	240	165	259	343	209	108	102	426	124	200
2	111	148	200	157	242	308	188	145	103	508	95	590
3	109	142	180	153	297	290	171	221	86	606	82	723
4	107	138	188	151	332	275	156	287	79	642	73	532
5	105	155	207	157	310	262	148	174	73	441	71	272
6	105	549	215	193	307	259	152	138	68	379	95	166
7	108	649	194	233	531	261	148	119	70	267	106	868
8	118	451	174	208	636	270	149	108	93	565	82	2570
9	135	287	165	192	574	241	152	100	128	460	66	e2560
10	127	214	207	200	395	228	151	94	168	247	61	1230
11	121	185	323	198	325	220	146	93	170	183	59	648
12	123	170	392	179	437	213	149	94	110	152	92	383
13	126	162	311	168	683	212	183	123	112	150	161	275
14	119	154	280	166	743	215	233	220	124	125	263	226
15	115	145	336	163	670	203	276	187	193	116	168	204
16	107	142	362	159	631	206	199	152	239	121	105	262
17	102	145	290	152	616	208	166	174	250	108	84	1080
18	108	144	264	179	523	203	157	155	248	97	100	1990
19	114	355	245	203	417	195	149	209	238	105	90	1330
20	109	564	213	194	365	192	139	254	148	93	73	686
21	105	658	191	167	333	193	128	188	117	79	66	412
22	105	498	178	156	310	185	124	138	124	70	64	301
23	102	294	173	151	289	175	120	133	136	63	62	250
24	98	233	189	146	280	168	116	164	160	58	59	219
25	98	209	215	222	286	169	114	122	192	77	65	182
26	114	194	234	524	364	168	117	103	258	375	55	166
27	321	176	194	727	418	169	130	91	259	270	53	231
28	453	195	177	726	428	167	126	78	436	208	51	834
29	366	273	170	461	392	166	111	72	511	178	48	1120
30	224	315	167	352	---	173	106	77	453	176	100	1060
31	179	---	166	296	---	196	---	87	---	155	246	---
TOTAL	4452	8103	7040	7498	12393	6733	4613	4408	5448	7500	2919	21570
MEAN	144	270	227	242	427	217	154	142	182	242	94.2	719
MAX	453	658	392	727	743	343	276	287	511	642	263	2570
MIN	98	138	165	146	242	166	106	72	68	58	48	166
CFSM	0.78	1.46	1.23	1.31	2.31	1.17	0.83	0.77	0.98	1.31	0.51	3.89
IN.	0.90	1.63	1.42	1.51	2.49	1.35	0.93	0.89	1.10	1.51	0.59	4.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

MEAN	154	196	260	341	404	442	329	245	177	153	135	140
MAX	731	604	750	643	880	886	804	753	579	844	450	719
(WY)	1996	1996	1984	1996	1998	1975	1973	2003	2003	2003	1994	2004
MIN	7.66	42.4	83.1	102	129	118	100	48.5	7.89	5.91	9.14	11.8
(WY)	1988	1982	1988	1981	1989	1988	1986	2000	1988	1986	2002	1987

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004		
ANNUAL TOTAL	145213		92677				
ANNUAL MEAN	398		253		248		
HIGHEST ANNUAL MEAN					424		2003
LOWEST ANNUAL MEAN					99.4		1988
HIGHEST DAILY MEAN	5550	Jul 2	2570	Sep 8	6470	Mar 18	1990
LOWEST DAILY MEAN	84	Sep 19	48	Aug 29	0.18	Jul 22	2000
ANNUAL SEVEN-DAY MINIMUM	91	Sep 15	56	Aug 23	0.73	Jul 16	1986
MAXIMUM PEAK FLOW			e2970	Sep 9	7620	Mar 18	1992
MAXIMUM PEAK STAGE			a	Sep 9	14.79	Mar 16	1976
INSTANTANEOUS LOW FLOW			46	Aug 29			
ANNUAL RUNOFF (CFSM)	2.15		1.37		1.34		
ANNUAL RUNOFF (INCHES)	29.20		18.64		18.22		
10 PERCENT EXCEEDS	709		501		508		
50 PERCENT EXCEEDS	261		178		160		
90 PERCENT EXCEEDS	120		93		47		

e Estimated
a unknown

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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	2.90	3.33	4.25	3.59	4.30	4.69	3.69	2.67	2.59	5.05	2.96	3.68
2	2.82	3.22	3.92	3.52	4.17	4.45	3.49	3.07	2.60	5.51	2.62	6.14
3	2.79	3.16	3.74	3.47	4.59	4.33	3.34	3.78	2.39	6.01	2.44	6.85
4	2.77	3.11	3.81	3.46	4.83	4.22	3.19	4.29	2.29	6.17	2.31	5.91
5	2.74	3.28	3.98	3.51	4.68	4.12	3.12	3.37	2.20	5.10	2.29	4.29
6	2.74	5.95	4.05	3.85	4.64	4.09	3.15	3.01	2.13	4.73	2.61	3.39
7	2.78	6.51	3.87	4.20	6.02	4.11	3.11	2.80	2.15	3.95	2.75	6.75
8	2.90	5.46	3.68	3.99	6.56	4.18	3.12	2.67	2.48	5.75	2.44	10.65
9	3.09	4.41	3.59	3.84	6.23	3.95	3.15	2.56	2.90	5.19	2.21	---
10	2.99	3.84	3.97	3.92	5.24	3.85	3.14	2.49	3.30	3.83	2.13	8.53
11	2.94	3.58	4.87	3.90	4.78	3.78	3.10	2.48	3.33	3.30	2.10	6.49
12	2.96	3.44	5.32	3.73	5.42	3.72	3.12	2.50	2.69	3.03	2.56	5.05
13	2.99	3.36	4.78	3.63	6.66	3.71	3.46	2.84	2.71	3.03	3.35	4.32
14	2.91	3.28	4.56	3.60	6.86	3.73	3.88	3.77	2.86	2.78	4.23	3.93
15	2.87	3.20	4.95	3.57	6.51	3.63	4.22	3.48	3.54	2.69	3.40	3.75
16	2.76	3.16	5.12	3.53	6.32	3.66	3.59	3.15	3.93	2.77	2.75	4.16
17	2.70	3.19	4.63	3.46	6.25	3.68	3.30	3.36	4.00	2.64	2.47	8.02
18	2.78	3.18	4.44	3.73	5.76	3.63	3.20	3.17	4.00	2.52	2.67	9.90
19	2.85	4.81	4.29	3.94	5.16	3.56	3.12	3.68	3.92	2.64	2.55	8.75
20	2.78	6.09	4.02	3.86	4.84	3.54	3.01	4.05	3.11	2.50	2.31	6.67
21	2.74	6.56	3.83	3.61	4.63	3.54	2.90	3.50	2.77	2.33	2.20	5.23
22	2.74	5.74	3.71	3.50	4.47	3.47	2.85	3.00	2.85	2.22	2.18	4.51
23	2.71	4.51	3.67	3.45	4.31	3.38	2.81	2.95	2.96	2.14	2.15	4.13
24	2.66	4.09	3.82	3.40	4.25	3.32	2.77	3.27	3.19	2.08	2.09	3.88
25	2.65	3.92	4.04	4.04	4.29	3.32	2.74	2.83	3.48	2.34	2.18	3.55
26	2.84	3.82	4.20	6.02	4.83	3.31	2.77	2.60	4.01	5.00	2.02	3.40
27	4.62	3.69	3.86	6.99	5.17	3.32	2.93	2.45	3.99	4.28	2.00	3.91
28	5.49	3.87	3.71	6.97	5.23	3.31	2.87	2.27	5.16	3.78	1.96	7.30
29	4.94	4.50	3.64	5.63	5.01	3.29	2.70	2.19	5.57	3.51	1.90	8.38
30	3.92	4.81	3.61	4.96	---	3.35	2.64	2.26	5.23	3.49	2.66	8.13
31	3.53	---	3.60	4.58	---	3.57	---	2.39	---	3.29	4.05	---
MEAN	3.09	4.17	4.11	4.11	5.24	3.74	3.15	3.00	3.28	3.67	2.53	---
MAX	5.49	6.56	5.32	6.99	6.86	4.69	4.22	4.29	5.57	6.17	4.23	---
MIN	2.65	3.11	3.59	3.40	4.17	3.29	2.64	2.19	2.13	2.08	1.90	---