2004 Water Year

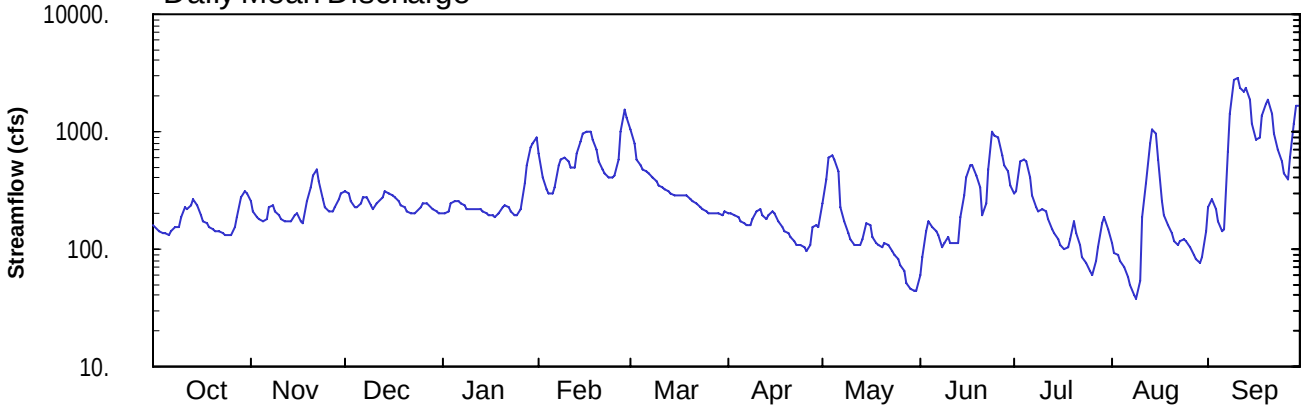
APALACHICOLA RIVER BASIN

02351890 MUCKALEE CREEK AT GA 195, NEAR LEESBURG, GA

Latitude: 31°46'34" Longitude: 084°08'22" Hydrologic Unit Code: 03130007

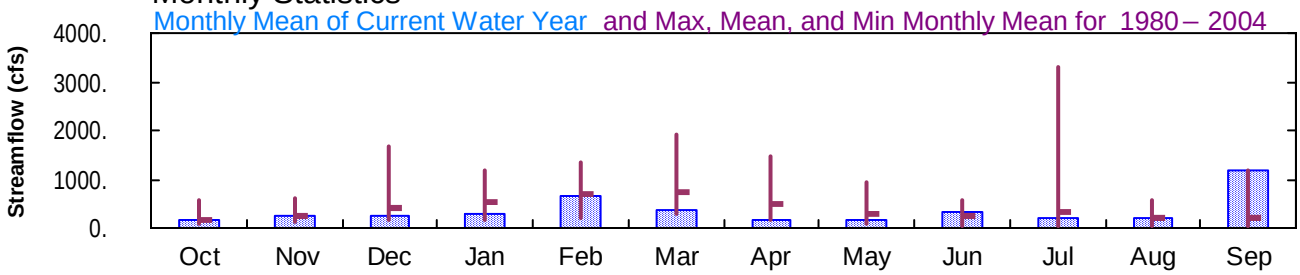
Lee County Datum: 220 feet Drainage Area: 362. mi^2

Daily Mean Discharge

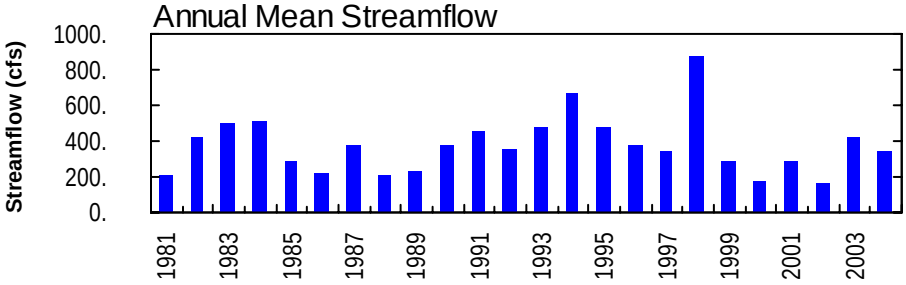


Monthly Statistics

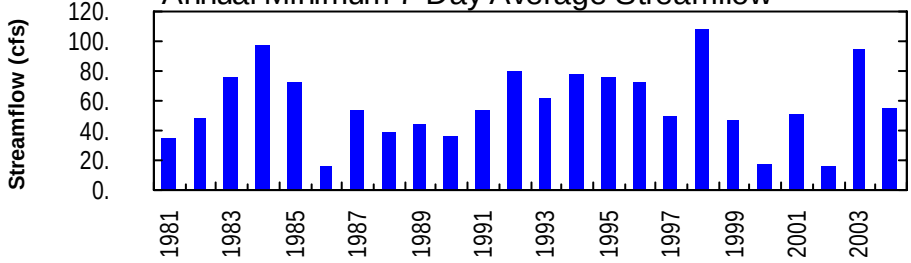
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1980 – 2004



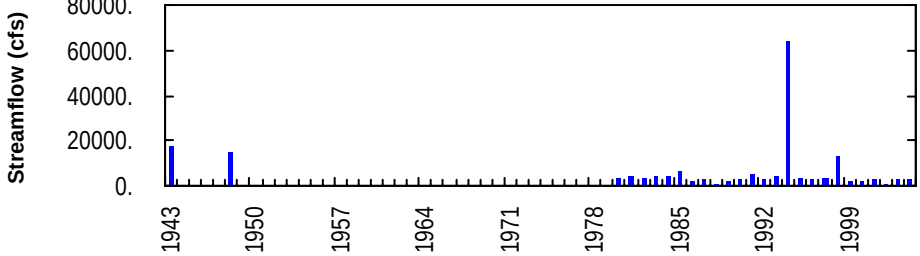
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



APALACHICOLA RIVER BASIN
2004 Water Year

02351890 MUCKALEE CREEK AT GA 195, NEAR LEESBURG, GA

LOCATION.—Lat 31°46'34", long 84°08'22" referenced to North American Datum (NAD) of 1927, Lee County, Hydrologic Unit 03130007, on downstream end of bridge pier on GA 195, 75 feet downstream from White Oak Branch, 3.3 miles downstream from Muckaloochee Creek, and 4.0 miles northeast of Leesburg.

DRAINAGE AREA.—362 square miles.

COOPERATION.—Georgia Geologic Survey; Georgia Power Corporation.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—December 1979 to current year.

REVISED RECORDS.—WRD GA-82-1: 1980(P), 1981(P).

GAGE.—Satellite telemetry with a water-stage recorder. Elevation of gage is 220.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

REMARKS.—Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,200 cfs and maximum (*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
02/28	0945	1,590	10.83
09/10	0115	3,010*	12.20*
09/20	0845	1,940	11.27
09/29	2030	1,780	11.09

WATER-STAGE RECORDS

PERIOD OF RECORD.—December 1979 to current year.

GAGE.—Satellite telemetry with a water-stage recorder. Elevation of gage is 220.00 feet above National Geodetic Vertical Datum (NGVD) of 1929 (from topographic map).

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 12.20 feet, September 10; minimum gage-height recorded, 2.42 feet, August 10.

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

STATION NUMBER 02351890 MUCKALEE CREEK AT GA 195, NEAR LEESBURG, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 177
LATITUDE 314634 LONGITUDE 0840822 NAD83 DRAINAGE AREA 362.00 CONTRIBUTING DRAINAGE AREA 362.00* DATUM 220 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	158	254	308	203	653	1030	203	248	61	301	111	225
2	147	208	298	203	411	787	200	390	86	304	93	269
3	140	186	256	211	327	584	191	593	143	556	88	215
4	137	177	229	245	298	509	183	629	172	575	79	170
5	135	173	229	258	295	476	176	577	157	559	70	140
6	132	181	247	259	338	453	167	465	140	408	59	147
7	141	223	274	244	516	435	159	231	129	285	50	682
8	152	232	277	232	585	409	163	170	105	227	41	1430
9	151	211	240	218	609	374	181	138	112	212	38	2810
10	190	195	221	219	548	353	210	120	127	218	53	2850
11	229	179	244	215	491	341	216	109	112	213	187	2350
12	218	171	257	217	503	326	196	109	114	178	357	2200
13	239	172	279	221	650	313	182	110	111	145	776	2320
14	265	170	306	211	831	299	192	119	189	135	1040	1880
15	239	193	296	200	960	291	213	164	287	119	951	1170
16	196	201	288	197	995	284	198	160	407	110	572	860
17	174	174	275	191	988	285	173	126	512	102	258	905
18	164	166	255	187	842	289	156	111	519	102	191	1360
19	156	251	237	200	708	286	141	109	424	122	162	1730
20	149	341	225	224	559	269	135	105	329	174	137	1860
21	145	431	214	239	480	255	128	112	197	139	117	1410
22	141	469	204	227	432	241	118	108	242	109	108	954
23	139	380	200	206	410	228	110	97	485	86	115	704
24	134	270	211	196	401	218	107	90	988	75	121	549
25	132	226	224	192	421	212	103	82	943	66	117	447
26	134	210	241	215	586	205	98	73	883	60	103	385
27	153	207	249	366	996	206	110	64	628	79	90	597
28	184	224	236	525	1530	204	155	52	524	103	82	1160
29	276	264	216	731	1290	201	160	46	466	167	77	1670
30	313	295	209	780	---	197	155	44	346	184	86	1630
31	302	---	205	881	---	206	---	44	---	146	140	---
TOTAL	5565	7034	7650	8913	18653	10766	4879	5595	9938	6259	6469	35079
MEAN	180	234	247	288	643	347	163	180	331	202	209	1169
MAX	313	469	308	881	1530	1030	216	629	988	575	1040	2850
MIN	132	166	200	187	295	197	98	44	61	60	38	140
CFSM	0.50	0.65	0.68	0.79	1.78	0.96	0.45	0.50	0.92	0.56	0.58	3.23
IN.	0.57	0.72	0.79	0.92	1.92	1.11	0.50	0.57	1.02	0.64	0.66	3.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	176	263	414	537	689	728	475	293	227	340	196	206
MAX	566	629	1667	1194	1360	1906	1450	957	574	3296	552	1169
(WY)	1995	1998	1998	1998	1998	1998	1998	1991	2003	1994	1984	2004
MIN	78.8	129	145	183	196	281	163	65.8	33.3	35.1	40.9	57.7
(WY)	2001	1991	1989	1989	1989	1989	2004	2000	2000	1986	2002	1990

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	149616		126800			
ANNUAL MEAN	410		346		378	
HIGHEST ANNUAL MEAN					876	1998
LOWEST ANNUAL MEAN					165	2002
HIGHEST DAILY MEAN	2120	Apr 11	2850	Sep 10	36000	Jul 7 1994
LOWEST DAILY MEAN	116	Sep 21	38	Aug 9	12	Jul 20 1986
ANNUAL SEVEN-DAY MINIMUM	135	Sep 16	55	May 26	16	Jul 15 1986
MAXIMUM PEAK FLOW			3010	Sep 10	64400	Jul 6 1994
MAXIMUM PEAK STAGE			12.20	Sep 10	29.10	Jul 6 1994
INSTANTANEOUS LOW FLOW			37	Aug 10	11	Aug 14 2002
ANNUAL RUNOFF (CFSM)	1.13		0.957		1.04	
ANNUAL RUNOFF (INCHES)	15.37		13.03		14.19	
10 PERCENT EXCEEDS	779		744		783	
50 PERCENT EXCEEDS	287		214		226	
90 PERCENT EXCEEDS	174		105		82	

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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	4.28	5.32	5.82	4.81	7.86	9.63	4.61	5.01	2.83	5.48	3.57	4.81
2	4.15	4.87	5.74	4.81	6.30	8.57	4.57	6.14	3.22	5.50	3.33	5.21
3	4.06	4.62	5.34	4.90	5.69	7.48	4.49	7.53	3.96	7.29	3.25	4.72
4	4.01	4.51	5.09	5.24	5.45	7.01	4.40	7.75	4.29	7.42	3.11	4.26
5	4.00	4.46	5.09	5.37	5.42	6.78	4.33	7.44	4.11	7.33	2.99	3.92
6	3.95	4.56	5.26	5.37	5.75	6.60	4.23	6.68	3.92	6.28	2.80	3.99
7	4.08	5.02	5.51	5.24	7.05	6.46	4.14	4.87	3.80	5.34	2.65	7.94
8	4.21	5.11	5.54	5.12	7.48	6.28	4.18	4.25	3.50	4.85	2.48	10.40
9	4.19	4.90	5.19	4.98	7.63	6.04	4.38	3.90	3.58	4.70	2.44	12.05
10	4.66	4.71	5.01	4.99	7.26	5.89	4.68	3.69	3.77	4.77	2.68	12.07
11	5.09	4.54	5.23	4.95	6.88	5.79	4.75	3.54	3.58	4.72	4.42	11.66
12	4.97	4.44	5.35	4.96	6.95	5.68	4.53	3.54	3.61	4.34	5.89	11.54
13	5.18	4.45	5.56	5.01	7.87	5.57	4.39	3.56	3.57	3.98	8.48	11.65
14	5.43	4.42	5.80	4.90	8.78	5.46	4.49	3.68	4.45	3.87	9.66	11.18
15	5.18	4.69	5.71	4.78	9.37	5.39	4.72	4.20	5.36	3.68	9.31	9.98
16	4.73	4.79	5.64	4.74	9.51	5.33	4.56	4.14	6.27	3.56	7.35	8.93
17	4.48	4.47	5.52	4.67	9.48	5.35	4.30	3.76	7.02	3.45	5.11	9.13
18	4.35	4.38	5.34	4.62	8.85	5.38	4.11	3.58	7.07	3.46	4.48	10.37
19	4.26	5.28	5.17	4.77	8.18	5.35	3.93	3.55	6.39	3.71	4.17	11.03
20	4.17	6.11	5.05	5.03	7.33	5.21	3.87	3.50	5.68	4.30	3.88	11.18
21	4.12	6.79	4.93	5.18	6.81	5.09	3.78	3.58	4.54	3.91	3.65	10.51
22	4.07	7.05	4.83	5.07	6.44	4.97	3.67	3.54	4.96	3.55	3.53	9.32
23	4.04	6.41	4.78	4.84	6.28	4.85	3.56	3.38	6.78	3.23	3.63	8.15
24	3.98	5.47	4.90	4.73	6.23	4.76	3.53	3.28	9.45	3.06	3.70	7.26
25	3.95	5.06	5.04	4.69	6.37	4.70	3.47	3.17	9.30	2.92	3.65	6.56
26	3.98	4.89	5.20	4.89	7.48	4.63	3.39	3.03	9.03	2.82	3.47	6.12
27	4.22	4.85	5.28	6.19	9.39	4.64	3.56	2.89	7.72	3.11	3.29	7.45
28	4.59	5.03	5.16	7.25	10.73	4.63	4.09	2.69	7.11	3.46	3.16	9.95
29	5.53	5.41	4.96	8.36	10.29	4.59	4.15	2.59	6.69	4.23	3.09	10.94
30	5.87	5.70	4.87	8.57	---	4.55	4.10	2.55	5.82	4.41	3.21	10.88
31	5.77	---	4.83	9.03	---	4.64	---	2.55	---	3.99	3.93	---
MEAN	4.50	5.08	5.25	5.42	7.56	5.72	4.17	4.11	5.38	4.41	4.21	8.77
MAX	5.87	7.05	5.82	9.03	10.73	9.63	4.75	7.75	9.45	7.42	9.66	12.07
MIN	3.95	4.38	4.78	4.62	5.42	4.55	3.39	2.55	2.83	2.82	2.44	3.92