2004 Water Year

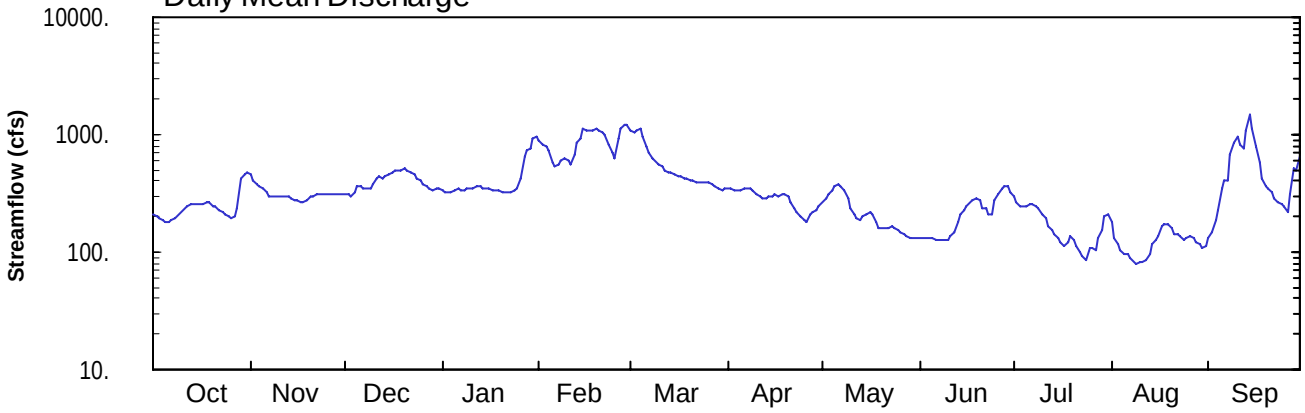
SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA

Latitude: 32°56'00" Longitude: 081°39'05" Hydrologic Unit Code: 03060108

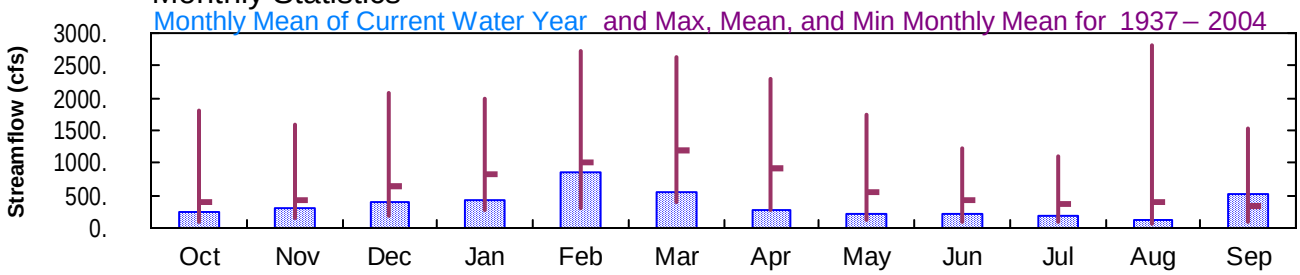
Screven County Datum: 95.88 feet Drainage Area: 646. mi^2

Daily Mean Discharge

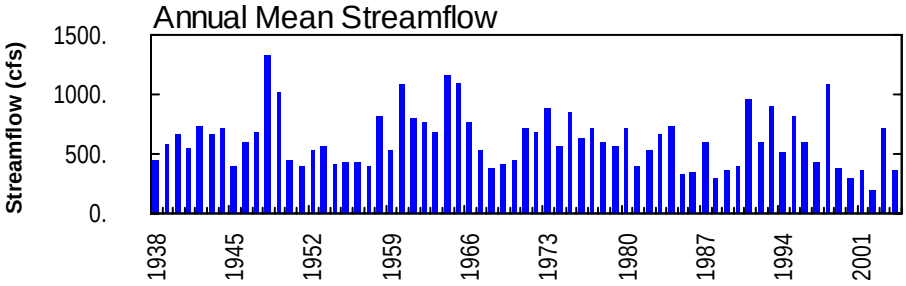


Monthly Statistics

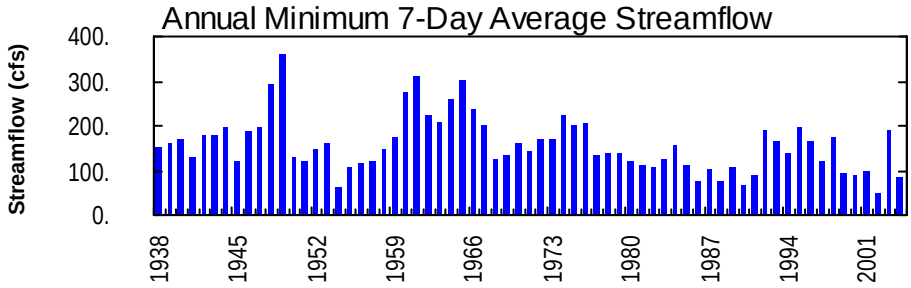
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1937 – 2004



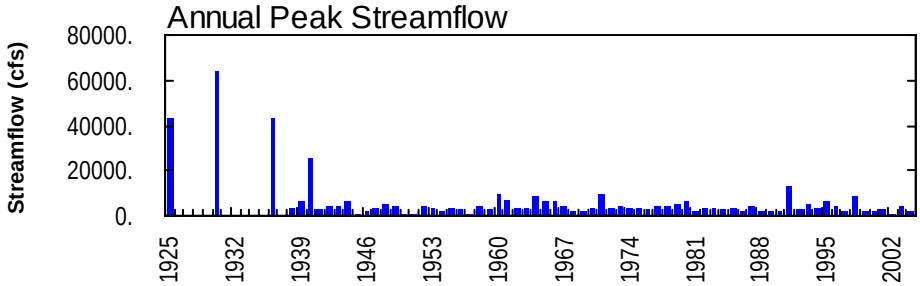
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



02198000 - Brier Creek at Millhaven, GA - January 31, 1973

02198000 BRIER CREEK AT MILLHAVEN, GA

LOCATION.—Lat 32°56'00", long 81°39'05" referenced to North American Datum (NAD) of 1927, Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of Girard-Millhaven Road bridge at Millhaven, 8.5 miles upstream from Beaverdam Creek.

DRAINAGE AREA.—646 square miles.

COOPERATION.—Georgia Geologic Survey.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1936 to current year. Monthly discharges only for October 1936 to April 1937, published in WSP 1303.

REVISED RECORDS.—WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.—Water-stage recorder. Datum of gage is 95.88 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to June 7, 1950, a non-recording gage was located at a site 200.00 feet downstream at same datum. From June 7, 1950 to April 30, 1951, a non-recording gage was located at present site and datum.

REMARKS.—Records good, except for periods of estimated discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1797, 25.1 feet in September or October 1929, from information provided by the Georgia Department of Transportation; discharge, 64,000 cfs, by slope-conveyance study.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,000 cfs and maximum (*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
09/14	0345	1,600*	7.58*

02198000 BRIER CREEK AT MILLHAVEN, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—October 1936 to current year. Monthly discharges only for October 1936 to April 1937, published in WSP 1303.

REVISED RECORDS.—WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.—Water-stage recorder. Datum of gage is 95.88 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to June 7, 1950, a non-recording gage was located at a site 200.00 feet downstream at same datum. From June 7, 1950 to April 30, 1951, a non-recording gage was located at present site and datum.

REMARKS.—Records good.

EXTREMES FOR CURENT YEAR.—Maximum gage-height recorded, 7.58 feet, September 14; minimum gage-height recorded, 0.03 feet, August 9.

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

STATION NUMBER 02198000 BRIER CREEK AT MILLHAVEN, GA STREAM SOURCE AGENCY USGS STATE 13 COUNTY 251
LATITUDE 325600 LONGITUDE 0813905 NAD27 DRAINAGE AREA 646 CONTRIBUTING DRAINAGE AREA 646* DATUM 95.88 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	213	463	315	333	903	1090	348	e270	e129	e303	181	130
2	204	406	306	327	833	1030	346	e290	e129	e267	132	150
3	194	381	299	326	797	1080	340	e308	e130	e249	115	187
4	186	367	324	328	721	1130	337	e338	e129	e246	104	231
5	180	345	358	333	590	976	341	e366	e129	e246	95	345
6	179	321	361	350	538	801	347	e382	e128	e251	94	405
7	186	303	354	336	566	694	348	e368	e128	e253	89	414
8	197	297	344	336	612	616	342	e329	e128	e249	83	668
9	208	294	345	342	636	573	329	e282	e125	e239	80	869
10	218	294	373	347	612	562	309	e240	e126	e211	81	961
11	233	296	426	351	567	530	296	e209	e136	e193	82	835
12	247	298	433	359	688	503	287	e191	e148	e163	84	747
13	252	298	425	356	850	485	288	e186	e178	e151	96	1100
14	256	290	441	349	916	476	299	e198	e206	e142	116	1500
15	255	280	465	350	1120	458	304	e208	e226	e134	128	1120
16	252	274	483	347	1080	444	307	e217	e248	120	136	803
17	260	269	497	341	1090	434	303	e209	e265	114	164	580
18	264	267	491	338	1100	425	310	e178	e279	120	171	429
19	261	277	492	335	1140	418	311	e161	e287	136	171	366
20	250	301	511	328	1090	409	294	e159	e275	124	159	348
21	241	303	502	324	1050	403	267	e161	e239	113	144	319
22	231	307	481	321	992	394	240	e162	e238	101	144	286
23	218	306	456	321	828	389	215	e163	e207	91	136	265
24	208	311	430	329	692	390	199	e161	e212	87	129	253
25	200	316	402	354	630	390	190	e154	e271	106	131	241
26	197	316	376	423	936	391	183	e147	e313	107	135	219
27	199	316	361	659	1130	383	e208	e142	e345	102	133	306
28	234	310	350	721	1190	366	e216	e138	e367	133	124	525
29	425	313	340	763	1240	347	e229	e133	e360	152	116	502
30	454	314	349	938	---	336	e245	e130	e328	203	108	641
31	478	---	347	968	---	344	---	e129	---	208	112	---
TOTAL	7580	9433	12437	12933	25137	17267	8578	6709	6409	5314	3773	15745
MEAN	245	314	401	417	867	557	286	216	214	171	122	525
MAX	478	463	511	968	1240	1130	348	382	367	303	181	1500
MIN	179	267	299	321	538	336	183	129	125	87	80	130
CFSM	0.38	0.49	0.62	0.65	1.34	0.86	0.44	0.34	0.33	0.27	0.19	0.81
IN.	0.44	0.54	0.72	0.74	1.45	0.99	0.49	0.39	0.37	0.31	0.22	0.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	395	428	631	838	999	1186	916	536	415	370	395	342
MAX	1814	1580	2091	1990	2709	2635	2304	1759	1211	1103	2817	1544
(WY)	1991	1948	1949	1993	1960	1948	1961	1964	1973	1941	1940	1964
MIN	103	141	193	284	304	410	286	125	88.0	87.0	69.1	102
(WY)	2002	2002	2002	2002	1989	2002	2004	2002	2002	2002	2002	1954

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	256931		131315			
ANNUAL MEAN	704		359		618	
HIGHEST ANNUAL MEAN					1339	1948
LOWEST ANNUAL MEAN					195	2002
HIGHEST DAILY MEAN	3690	Apr 12	1500	Sep 14	22100	Aug 16 1940
LOWEST DAILY MEAN	179	Oct 6	80	Aug 9	45	Aug 17 2002
ANNUAL SEVEN-DAY MINIMUM	189	Oct 2	85	Aug 6	48	Aug 11 2002
MAXIMUM PEAK FLOW			1600	Sep 14	25400	Aug 16 1940
MAXIMUM PEAK STAGE			7.58	Sep 14	17.40	Aug 16 1940
INSTANTANEOUS LOW FLOW			85	Aug 9	62	Jul 9 1990
ANNUAL RUNOFF (CFSM)	1.09		0.555		0.957	
ANNUAL RUNOFF (INCHES)	14.80		7.56		13.00	
10 PERCENT EXCEEDS	1310		721		1240	
50 PERCENT EXCEEDS	518		306		442	
90 PERCENT EXCEEDS	252		129		181	

e Estimated

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LATITUDE 325600 LONGITUDE 0813905 NAD27 DRAINAGE AREA 646 CONTRIBUTING DRAINAGE AREA 646* DATUM 95.88 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	1.86	3.90	2.89	3.05	5.75	6.34	3.20	---	---	---	1.57	0.89
2	1.75	3.55	2.81	3.00	5.50	6.18	3.18	---	---	---	0.93	1.16
3	1.64	3.39	2.74	2.99	5.36	6.32	3.14	---	---	---	0.67	1.62
4	1.55	3.29	2.96	3.01	5.06	6.46	3.12	---	---	---	0.49	2.09
5	1.47	3.13	3.22	3.04	4.56	6.02	3.15	---	---	---	0.34	3.14
6	1.45	2.95	3.24	3.17	4.31	5.42	3.20	---	---	---	0.33	3.60
7	1.54	2.79	3.20	3.07	4.45	5.01	3.21	---	---	---	0.22	3.64
8	1.67	2.72	3.12	3.07	4.67	4.73	3.16	---	---	---	0.12	5.00
9	1.81	2.70	3.13	3.12	4.76	4.53	3.06	---	---	---	0.06	5.75
10	1.91	2.70	3.33	3.15	4.66	4.48	2.88	---	---	---	0.07	6.03
11	2.09	2.71	3.69	3.17	4.45	4.32	2.76	---	---	---	0.10	5.58
12	2.23	2.73	3.73	3.23	4.93	4.18	2.68	---	---	---	0.15	5.22
13	2.29	2.73	3.68	3.21	5.57	4.07	2.69	---	---	---	0.36	6.29
14	2.32	2.66	3.78	3.17	5.79	4.03	2.79	---	---	---	0.69	7.38
15	2.31	2.56	3.92	3.17	6.42	3.93	2.84	---	---	---	0.88	6.43
16	2.28	2.50	4.02	3.15	6.31	3.85	2.87	---	---	0.95	0.99	5.38
17	2.36	2.46	4.10	3.11	6.32	3.79	2.83	---	---	0.86	1.37	4.48
18	2.40	2.43	4.06	3.09	6.36	3.73	2.89	---	---	0.95	1.45	3.63
19	2.37	2.53	4.07	3.06	6.48	3.68	2.91	---	---	1.17	1.45	3.19
20	2.26	2.76	4.17	3.01	6.34	3.63	2.75	---	---	1.02	1.31	3.06
21	2.17	2.78	4.12	2.97	6.22	3.59	2.49	---	---	0.85	1.11	2.83
22	2.06	2.82	4.01	2.94	6.04	3.53	2.25	---	---	0.64	1.11	2.56
23	1.92	2.81	3.87	2.95	5.48	3.49	2.02	---	---	0.46	1.00	2.35
24	1.80	2.85	3.71	3.02	4.95	3.50	1.86	---	---	0.38	0.89	2.23
25	1.72	2.90	3.53	3.20	4.74	3.50	1.77	---	---	0.71	0.92	2.11
26	1.67	2.90	3.35	3.65	5.83	3.51	1.70	---	---	0.70	0.98	1.86
27	1.70	2.90	3.25	4.83	6.46	3.45	---	---	---	0.59	0.95	2.63
28	2.08	2.85	3.17	5.06	6.63	3.33	---	---	---	1.02	0.81	4.20
29	3.68	2.87	3.10	5.23	6.75	3.19	---	---	---	1.25	0.69	4.07
30	3.86	2.89	3.16	5.87	---	3.10	---	---	---	1.84	0.56	4.73
31	3.99	---	3.15	5.97	---	3.16	---	---	---	1.89	0.63	---
MEAN	2.14	2.86	3.49	3.48	5.56	4.26	---	---	---	---	0.75	3.77
MAX	3.99	3.90	4.17	5.97	6.75	6.46	---	---	---	---	1.57	7.38
MIN	1.45	2.43	2.74	2.94	4.31	3.10	---	---	---	---	0.06	0.89

CAL YR 2003 MEAN 4.51 MAX 10.44 MIN 1.45