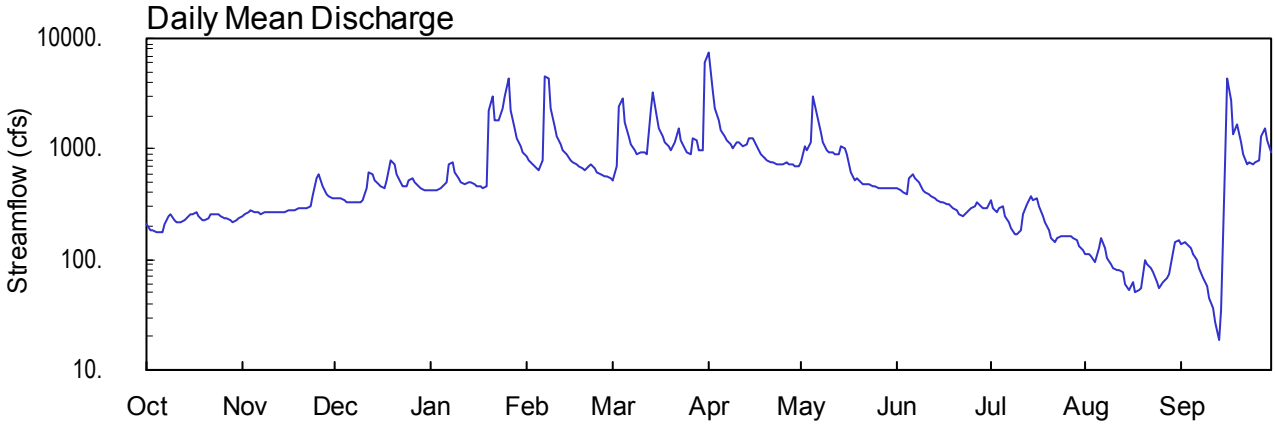
SAVANNAH RIVER BASIN

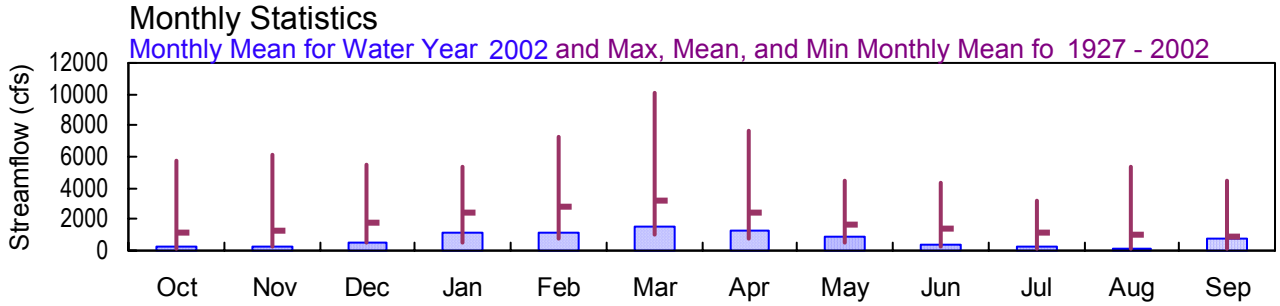
2002 Water Year

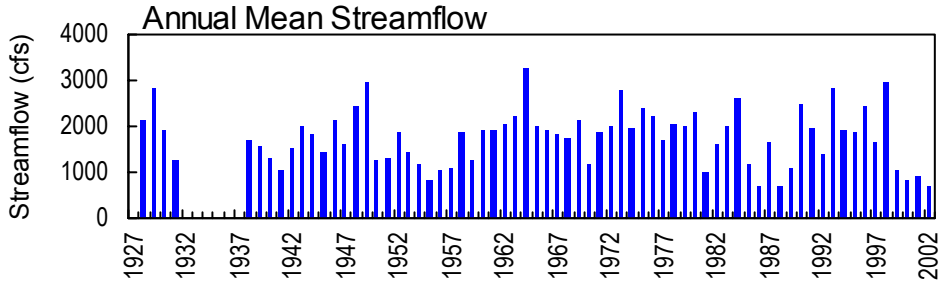
02192000 BROAD RIVER NEAR BELL, GA

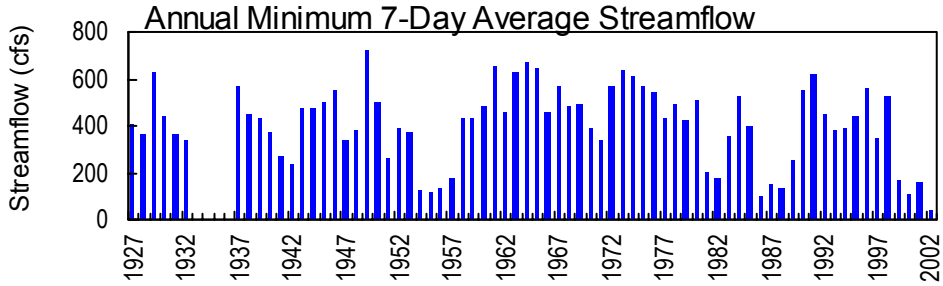
Latitude: 33°58'27" Longitude: 82°46'12" Hydrologic Unit Code: 03060104 Elbert County

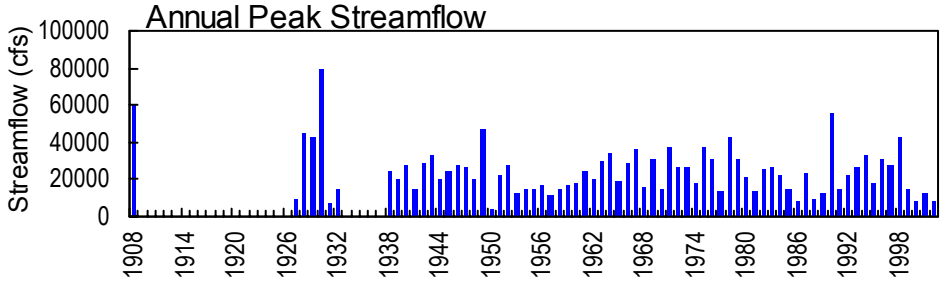
Drainage Area: 1,430. mi^2 Datum: 357.19 feet











SAVANNAH RIVER BASIN
2002 Water Year

02192000 BROAD RIVER NEAR BELL, GA

LOCATION.—Lat 33°58'27", long 82°46'12" referenced to North American Datum (NAD) of 1983, Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on GA 17, 0.5 miles downstream from Long Creek, 1.0 mile south of Bells Crossroads, and 12.0 miles southeast of Elberton.

DRAINAGE AREA.—1,430 mi^2, approximately.

COOPERATION.—Georgia Geologic Survey.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1926 to September 1932, August 1937 to current year. Monthly discharge only for October 1926, August to September 1932, published in WSP 1303.

REVISED RECORDS.—WSP 1172: 1928-30. WSP 1383: Drainage area.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 357.16 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to October 1928, a non-recording gage was located at railroad bridge about 1.0 mile downstream at datum 1.12 feet lower. From October 1928 to July 1932, and August 1937 to January 1939, a non-recording gage was located at present site and datum.

REMARKS.—Records good, except for the periods of missing record which and are fair.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 14,000 ft^3/s and maximum (*):

DATE	TIME	DISCHARGE (ft^3/s)	GAGE-HEIGHT (ft)
Apr. 1	0200	8,780*	13.71*

WATER-STAGE RECORDS

PERIOD OF RECORD.—October 1926 to September 1932, August 1937 to current year. Monthly discharge only for October 1926, August to September 1932, published in WSP 1303.

GAGE.—Satellite telemetry with a water-stage recorder. Datum of gage is 357.16 feet above National Geodetic Vertical Datum (NGVD) of 1929. Prior to October 1928, a non-recording gage was located at railroad bridge about 1.0 mile downstream at datum 1.12 feet lower. From October 1928 to July 1932, and August 1937 to January 1939, a non-recording gage was located at present site and datum.

REMARKS.—Records good.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 13.71 feet, April 1; minimum gage-height recorded, 2.19 feet, September 13, 14.

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

STATION NUMBER 02192000 BROAD RIVER NEAR BELL, GA SOURCE AGENCY USGS STATE 13 COUNTY 105
LATITUDE 335827 LONGITUDE 0824612 NAD83 DRAINAGE AREA 1430.00* CONTRIBUTING DRAINAGE AREA DATUM 357.19 NGVD29
Date Processed: 2003-03-10 14:04 By acday
APPROVED
DD #1, DCP (ALL HIST DVS)
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	251	351	417	845	525	7410	e750	e440	345	112	138
2	187	259	352	415	802	695	3460	e1040	e430	285	111	143
3	181	268	352	428	726	2480	2320	957	e410	265	105	139
4	180	277	340	449	673	2900	1810	1150	e390	286	96	127
5	175	273	332	455	630	1770	1500	2930	e540	302	128	112
6	175	265	330	496	794	1290	1310	2050	e590	242	156	98
7	207	262	330	726	4620	1090	1180	1410	e550	216	126	84
8	250	263	331	756	4430	981	1080	1150	e510	191	104	68
9	255	266	335	624	2300	904	1030	985	e430	170	90	57
10	231	267	347	541	1590	924	1130	920	e400	170	85	45
11	221	269	440	499	1290	944	1140	915	e390	184	81	36
12	217	271	604	488	1100	892	1050	906	e370	255	79	27
13	224	270	583	496	967	2270	1100	904	e360	314	76	19
14	239	269	514	499	e900	3210	1260	1050	e340	377	61	35
15	255	269	488	480	803	1990	1240	1010	e330	337	52	746
16	258	275	469	463	772	1520	1130	e900	e330	351	63	4270
17	263	284	444	455	738	1300	980	e620	e320	308	51	2750
18	244	284	529	434	696	1160	892	e520	e310	249	52	1350
19	228	287	784	454	656	1050	832	e540	289	214	55	1690
20	229	288	724	2260	648	977	785	e510	274	181	97	1140
21	241	291	579	2930	697	1170	744	e480	257	158	91	891
22	252	289	499	1820	712	1520	e760	e470	248	144	82	742
23	254	299	459	1810	666	1220	e740	e470	253	153	77	765
24	253	372	462	2300	622	1010	e720	e460	281	164	62	730
25	248	549	527	3020	588	927	e720	e460	287	163	56	768
26	237	586	533	4350	572	896	e750	e450	309	161	62	786
27	232	464	490	2240	565	1230	e740	e450	325	163	68	1280
28	229	397	461	1560	548	1200	e720	e440	307	155	74	1520
29	220	371	435	1240	---	980	e710	e440	285	149	115	1220
30	225	358	425	1050	---	993	e700	e440	293	132	146	914
31	237	---	419	925	---	6120	---	e440	---	122	151	---
TOTAL	7058	9393	14268	35080	30950	46138	39943	26217	10848	6906	2764	22690
MEAN	228	313	460	1132	1105	1488	1331	846	362	223	89.2	756
MAX	263	586	784	4350	4620	6120	7410	2930	590	377	156	4270
MIN	175	251	330	415	548	525	700	440	248	122	51	19
CFSM	0.16	0.22	0.32	0.79	0.77	1.04	0.93	0.59	0.25	0.16	0.06	0.53
IN.	0.18	0.24	0.37	0.91	0.81	1.20	1.04	0.68	0.28	0.18	0.07	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2002, BY WATER YEAR (WY)

MEAN	1089	1248	1773	2424	2843	3240	2425	1709	1350	1146	1051	875
MAX	5768	6158	5506	5373	7319	10130	7718	4496	4279	3171	5319	4472
(WY)	1930	1949	1984	1974	1998	1929	1964	1964	1967	1938	1928	1929
MIN	148	313	455	506	803	970	766	447	238	162	89.2	158
(WY)	1955	2002	1956	1956	1989	1988	1986	2001	1988	1986	2002	1954

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1927 - 2002	
ANNUAL TOTAL	320574		252255			
ANNUAL MEAN	878		691		1763	
HIGHEST ANNUAL MEAN					3261	1964
LOWEST ANNUAL MEAN					691	2002
HIGHEST DAILY MEAN	12200	Mar 16	7410	Apr 1	70600	Oct 2 1929
LOWEST DAILY MEAN	148	Sep 18	19	Sep 13	19	Sep 13 2002
ANNUAL SEVEN-DAY MINIMUM	159	Sep 16	41	Sep 8	41	Sep 8 2002
MAXIMUM PEAK FLOW			8780	Apr 1	79400	Oct 2 1929
MAXIMUM PEAK STAGE			13.71	Apr 1	34.80	Oct 2 1929
ANNUAL RUNOFF (CFSM)	0.61		0.48		1.23	
ANNUAL RUNOFF (INCHES)	8.34		6.56		16.75	
10 PERCENT EXCEEDS	1820		1300		3090	
50 PERCENT EXCEEDS	526		444		1120	
90 PERCENT EXCEEDS	230		119		480	

e Estimated

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Date Processed: 2003-03-10 14:04 By acday
APPROVED
DD #2, DCP
GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.89	3.05	3.32	3.48	4.70	4.04	12.49	---	---	3.36	2.62	2.68
2	2.87	3.08	3.32	3.47	4.61	4.37	8.39	---	---	3.20	2.61	2.70
3	2.85	3.10	3.32	3.51	4.46	7.14	6.96	4.90	---	3.15	2.59	2.68
4	2.85	3.12	3.29	3.55	4.36	7.72	6.26	5.16	---	3.21	2.56	2.64
5	2.83	3.11	3.27	3.57	4.26	6.19	5.79	7.64	---	3.24	2.67	2.59
6	2.83	3.09	3.26	3.66	4.53	5.47	5.50	6.43	---	3.08	2.76	2.54
7	2.93	3.08	3.26	4.15	9.71	5.14	5.28	5.47	---	3.00	2.65	2.49
8	3.05	3.09	3.27	4.21	9.51	4.94	5.11	5.04	---	2.93	2.57	2.43
9	3.07	3.09	3.28	3.94	6.93	4.81	5.04	4.74	---	2.87	2.52	2.38
10	3.00	3.10	3.31	3.76	5.93	4.85	5.20	4.62	---	2.85	2.50	2.33
11	2.97	3.10	3.53	3.67	5.47	4.88	5.22	4.61	---	2.90	2.49	2.29
12	2.96	3.11	3.90	3.64	5.15	4.78	5.06	4.59	---	3.10	2.47	2.24
13	2.98	3.10	3.85	3.66	4.92	6.86	5.15	4.59	---	3.26	2.46	2.19
14	3.02	3.10	3.70	3.67	---	8.09	5.42	4.86	---	3.42	2.40	2.27
15	3.06	3.10	3.64	3.63	4.62	6.51	5.37	4.78	---	3.31	2.36	4.00
16	3.07	3.12	3.60	3.59	4.55	5.82	5.19	4.58	---	3.35	2.40	9.22
17	3.09	3.14	3.54	3.57	4.49	5.47	4.94	---	---	3.23	2.35	7.36
18	3.03	3.14	3.73	3.52	4.40	5.24	4.79	---	---	3.08	2.36	5.40
19	2.99	3.15	4.27	3.56	4.32	5.06	4.67	---	3.25	2.97	2.37	5.92
20	2.99	3.15	4.15	6.52	4.30	4.94	4.58	---	3.21	2.87	2.53	5.03
21	3.02	3.16	3.85	7.57	4.40	5.27	4.50	---	3.15	2.80	2.52	4.59
22	3.06	3.16	3.67	6.03	4.43	5.83	4.47	---	3.12	2.75	2.48	4.30
23	3.06	3.18	3.58	6.02	4.34	5.35	---	---	3.14	2.78	2.46	4.35
24	3.06	3.37	3.58	6.73	4.25	5.00	---	---	3.21	2.80	2.40	4.28
25	3.04	3.78	3.73	7.67	4.18	4.85	---	---	3.23	2.80	2.38	4.36
26	3.01	3.86	3.74	9.41	4.14	4.79	---	---	3.28	2.80	2.40	4.39
27	3.00	3.59	3.65	6.85	4.12	5.36	---	---	3.32	2.80	2.43	5.27
28	2.99	3.43	3.58	5.88	4.09	5.31	---	---	3.27	2.77	2.45	5.67
29	2.97	3.37	3.52	5.38	---	4.94	---	---	3.22	2.75	2.60	5.18
30	2.98	3.34	3.50	5.07	---	4.96	---	---	3.23	2.69	2.71	4.64
31	3.01	---	3.48	4.85	---	11.19	---	---	---	2.66	2.72	---
MEAN	2.98	3.21	3.57	4.77	---	5.65	---	---	---	2.99	2.51	3.95
MAX	3.09	3.86	4.27	9.41	---	11.19	---	---	---	3.42	2.76	9.22
MIN	2.83	3.05	3.26	3.47	---	4.04	---	---	---	2.66	2.35	2.19