



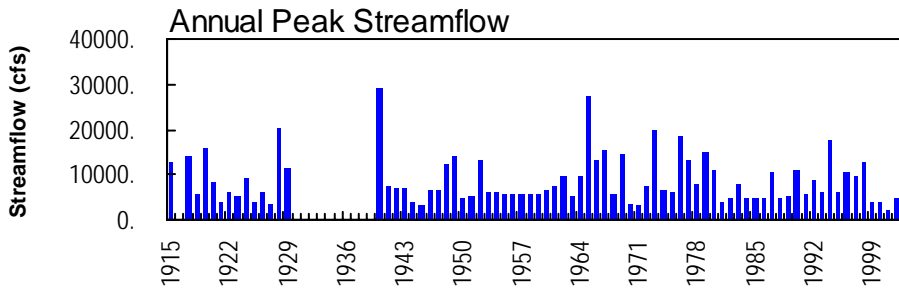
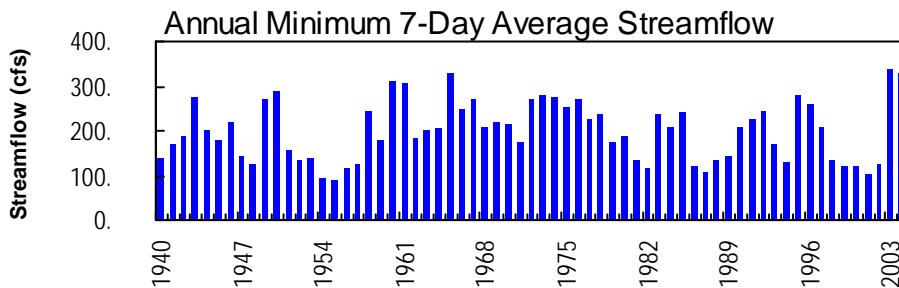
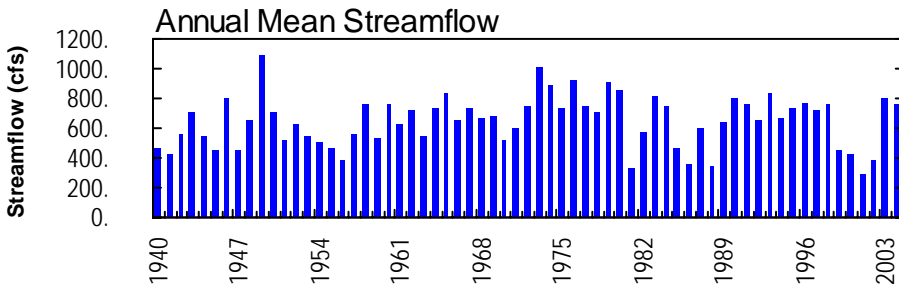
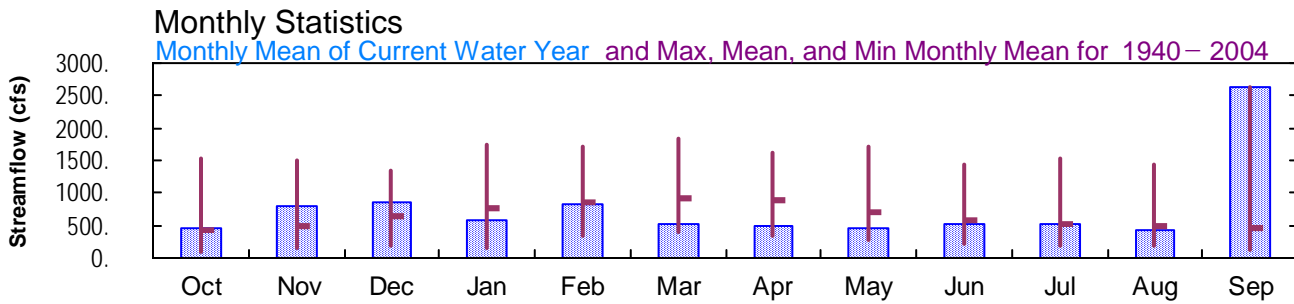
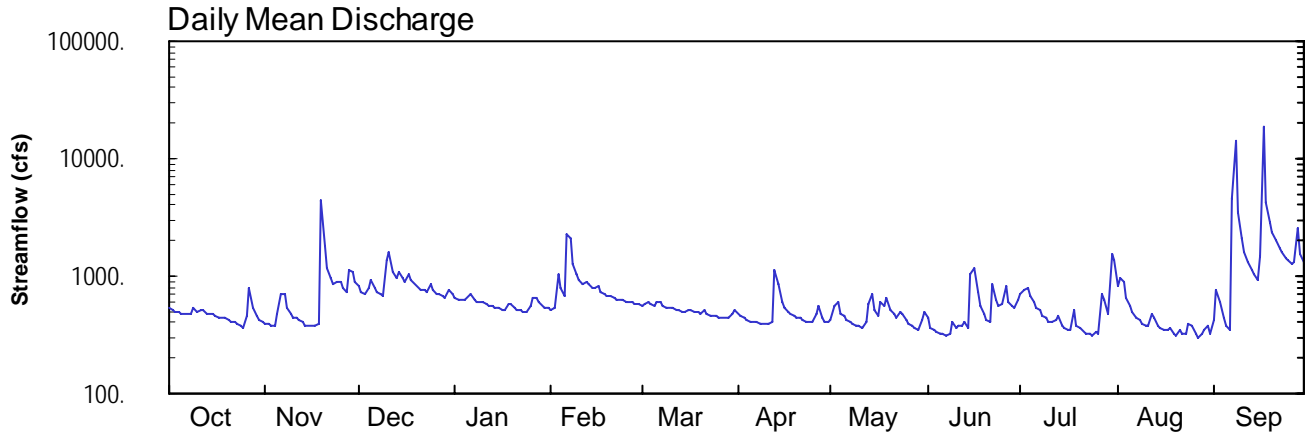
2004 Water Year SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA

Latitude: 34° 48 ' 50"
Oconee County

Longitude: 083° 18 ' 22"
Datum: 1165.6 feet

Hydrologic Unit Code: 03060102
Drainage Area: 207. mi²



USGS
02177000 - Chattooga River near Clayton, GA

**SAVANNAH RIVER BASIN
2004 Water Year**

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA

LOCATION.—Lat 34°48'50", long 83°18'22" referenced to North American Datum (NAD) of 1927, Oconee County, SC-Rabun County, GA, Hydrologic Unit 03060102, on left bank 150 feet downstream from bridge on US 76, 2.8 miles upstream from Stekoa Creek, 7.0 miles southeast of Clayton, 9.0 miles downstream from Warwoman Creek, and 9.0 miles upstream from confluence with Tallulah River.

DRAINAGE AREA.—207 square miles.

COOPERATION.—Georgia Geologic Survey.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—May 1907 to June 1908, October 1939 to current year. Monthly discharge only for May 1907 to June 1908, published in WSP 1303.

REVISED RECORDS.—WSP 1383: 1940-41, drainage area.

GAGE.—Satellite transmitter with a water-stage recorder. Datum of gage is 1,165.60 feet above National Geodetic Vertical Datum (NGVD) of 1929. May 1907 to June 1908, a non-recording gage was located at site 400.00 feet upstream at different datum.

REMARKS.—Records good. Periods of monthly discharge only are not included in statistics computations.

PEAK DISCHARGES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 3,400 cfs and maximum (*):

DATE	TIME	DISCHARGE (cfs)	GAGE-HEIGHT (feet)
11/19	1000	9,890	6.53
02/06	1915	4,830	4.73
09/08	0145	22,500	9.21
09/17	0545	33,300*	11.21*

**SAVANNAH RIVER BASIN
2004 Water Year**

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA—continued.

WATER-STAGE RECORDS

PERIOD OF RECORD.—May 1907 to June 1908, October 1939 to current year.

GAGE.—Satellite transmitter with a water-stage recorder. Datum of gage is 1,165.60 feet above National Geodetic Vertical Datum (NGVD) of 1929. May 1907 to June 1908, a non-recording gage was located at site 400.00 feet upstream at different datum.

REMARKS.—Records good, except for the month of October, which is fair.

EXTREMES FOR CURRENT YEAR.—Maximum gage-height recorded, 11.21 feet, September 17; minimum gage-height recorded, 1.35 feet, July 24, 25.

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

STATION NUMBER 02177000 CHATTOOGA RIVER NEAR CLAYTON, GA SOURCE AGENCY USGS STATE 45 COUNTY 073
 LATITUDE 344850 LONGITUDE 0831822 NAD27 DRAINAGE AREA 207 CONTRIBUTING DRAINAGE AREA 207* DATUM 1165.6 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	533	396	809	657	509	563	475	420	438	699	820	418
2	517	387	743	638	527	574	450	555	367	764	979	761
3	500	378	699	628	1020	599	437	605	343	782	894	603
4	491	373	784	615	783	573	424	483	333	680	647	436
5	484	472	911	651	683	562	413	451	323	610	547	379
6	476	712	791	708	2230	594	406	431	317	532	504	345
7	468	712	738	624	2080	598	404	409	315	507	446	4540
8	480	540	699	608	1260	559	399	397	328	461	420	14000
9	533	481	674	606	1040	544	396	380	412	438	395	3480
10	499	448	1380	593	929	542	386	379	356	415	381	2110
11	505	434	1600	573	855	528	386	369	373	412	374	1600
12	512	422	1100	564	885	517	405	409	376	422	472	1340
13	484	405	948	556	853	507	1120	578	411	454	444	1150
14	472	383	1060	546	790	498	853	700	360	384	379	1030
15	476	379	970	539	793	499	609	513	1040	363	356	935
16	452	376	880	523	808	522	539	457	1190	343	342	1480
17	446	378	1040	517	743	508	502	599	719	342	354	18500
18	441	386	933	586	713	491	479	566	558	515	363	4270
19	432	4460	863	573	689	487	460	643	481	380	323	2860
20	420	1790	811	531	672	474	448	524	429	364	310	2320
21	411	1190	769	518	663	505	436	475	411	339	347	1990
22	403	969	747	509	633	469	423	446	858	324	318	1740
23	389	853	728	500	620	458	414	487	635	321	318	1570
24	379	891	853	491	617	455	408	474	562	308	392	1440
25	360	907	767	559	603	450	400	425	572	341	377	1350
26	454	783	717	646	593	447	476	398	810	318	323	1250
27	788	743	694	640	596	444	551	382	602	698	296	1310
28	527	1140	676	600	586	440	434	365	560	634	320	2530
29	458	1090	664	560	571	435	410	355	533	476	351	1540
30	424	890	747	544	---	485	406	429	622	1530	370	1300
31	407	---	694	527	---	522	---	486	---	1370	328	---
TOTAL	14621	23768	26489	17930	24344	15849	14349	14590	15634	16526	13490	78577
MEAN	472	792	854	578	839	511	478	471	521	533	435	2619
MAX	788	4460	1600	708	2230	599	1120	700	1190	1530	979	18500
MIN	360	373	664	491	509	435	386	355	315	308	296	345
CFSM	2.28	3.83	4.13	2.79	4.06	2.47	2.31	2.27	2.52	2.58	2.10	12.7
IN.	2.63	4.27	4.76	3.22	4.37	2.85	2.58	2.62	2.81	2.97	2.42	14.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	434	505	647	765	861	933	881	716	592	506	481	468
MAX	1524	1509	1358	1747	1728	1829	1633	1725	1439	1542	1453	2619
(WY)	1965	1980	1962	1946	1990	1979	1964	1976	1976	1949	1940	2004
MIN	98.6	155	183	155	347	387	349	261	210	180	169	118
(WY)	1955	1955	1956	1956	1941	1988	1986	2001	1988	1986	2002	1954

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1940 - 2004
ANNUAL TOTAL	299868	276167	
ANNUAL MEAN	822	755	648
HIGHEST ANNUAL MEAN			1098 1949
LOWEST ANNUAL MEAN			298 2001
HIGHEST DAILY MEAN	4460	Nov 19	18500 Sep 17 2004
LOWEST DAILY MEAN	360	Oct 25	296 Aug 27 88 Oct 8 1954
ANNUAL SEVEN-DAY MINIMUM	390	Nov 12	331 Jul 20 90 Oct 7 1954
MAXIMUM PEAK FLOW			33300 Sep 17 33300 Sep 17 2004
MAXIMUM PEAK STAGE		11.21	Sep 17 13.80 Aug 30 1940 a
INSTANTANEOUS LOW FLOW		293	Aug 27 88 Oct 8 1954
ANNUAL RUNOFF (CFSM)	3.97	3.65	3.13
ANNUAL RUNOFF (INCHES)	53.89	49.63	42.53
10 PERCENT EXCEEDS	1120	1090	1150
50 PERCENT EXCEEDS	752	522	524
90 PERCENT EXCEEDS	476	366	225

a Maximum stage recorded Aug 30 1940

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 LATITUDE 344850 LONGITUDE 0831822 NAD27 DRAINAGE AREA 207 CONTRIBUTING DRAINAGE AREA 207* DATUM 1165.6 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	1.75	1.56	2.00	1.84	1.66	1.72	1.61	1.53	1.56	1.88	2.05	1.58
2	1.74	1.55	1.93	1.81	1.68	1.74	1.57	1.71	1.45	1.95	2.21	1.94
3	1.71	1.54	1.88	1.80	2.20	1.77	1.56	1.77	1.41	1.97	2.13	1.83
4	1.70	1.53	1.97	1.79	1.97	1.74	1.54	1.62	1.40	1.86	1.88	1.61
5	1.69	1.67	2.10	1.83	1.87	1.72	1.52	1.57	1.38	1.78	1.76	1.53
6	1.68	1.95	1.98	1.89	3.03	1.76	1.51	1.55	1.37	1.69	1.71	1.48
7	1.67	1.95	1.93	1.80	3.04	1.77	1.51	1.51	1.37	1.65	1.63	3.55
8	1.68	1.76	1.88	1.78	2.41	1.72	1.50	1.50	1.39	1.59	1.59	7.35
9	1.76	1.69	1.86	1.78	2.22	1.70	1.50	1.47	1.52	1.56	1.55	3.98
10	1.71	1.64	2.45	1.76	2.12	1.70	1.48	1.47	1.43	1.52	1.53	3.09
11	1.72	1.62	2.68	1.74	2.05	1.68	1.48	1.45	1.46	1.52	1.52	2.71
12	1.73	1.60	2.27	1.72	2.08	1.67	1.51	1.51	1.46	1.53	1.66	2.50
13	1.69	1.58	2.14	1.72	2.04	1.65	2.24	1.73	1.52	1.58	1.62	2.35
14	1.67	1.55	2.24	1.70	1.98	1.64	2.04	1.88	1.44	1.48	1.53	2.25
15	1.68	1.54	2.16	1.69	1.98	1.64	1.78	1.66	2.17	1.44	1.49	2.17
16	1.65	1.54	2.07	1.67	2.00	1.67	1.69	1.58	2.34	1.41	1.47	2.54
17	1.64	1.54	2.22	1.66	1.93	1.65	1.64	1.76	1.90	1.41	1.49	8.27
18	1.63	1.55	2.12	1.75	1.90	1.63	1.61	1.73	1.72	1.66	1.50	4.43
19	1.62	4.27	2.05	1.74	1.87	1.63	1.59	1.82	1.62	1.47	1.44	3.61
20	1.60	2.83	2.00	1.68	1.85	1.61	1.57	1.67	1.54	1.45	1.42	3.24
21	1.59	2.34	1.96	1.67	1.84	1.65	1.55	1.61	1.52	1.41	1.48	2.99
22	1.58	2.15	1.94	1.66	1.81	1.60	1.53	1.57	2.04	1.38	1.43	2.81
23	1.55	2.04	1.91	1.64	1.79	1.58	1.52	1.62	1.81	1.38	1.43	2.68
24	1.54	2.08	2.04	1.63	1.79	1.58	1.51	1.61	1.72	1.36	1.55	2.58
25	1.51	2.09	1.96	1.72	1.77	1.57	1.50	1.54	1.73	1.41	1.53	2.50
26	1.64	1.97	1.90	1.82	1.76	1.57	1.60	1.50	2.00	1.37	1.44	2.43
27	2.03	1.93	1.88	1.82	1.76	1.56	1.71	1.47	1.77	1.84	1.39	2.48
28	1.75	2.29	1.86	1.77	1.75	1.56	1.55	1.45	1.72	1.80	1.44	3.37
29	1.65	2.26	1.84	1.72	1.73	1.55	1.52	1.43	1.69	1.61	1.49	2.66
30	1.61	2.08	1.93	1.70	---	1.62	1.51	1.54	1.79	2.61	1.52	2.47
31	1.58	---	1.88	1.68	---	1.67	---	1.62	---	2.50	1.45	---
MEAN	1.67	1.92	2.03	1.74	2.00	1.66	1.60	1.60	1.64	1.65	1.59	2.97
MAX	2.03	4.27	2.68	1.89	3.04	1.77	2.24	1.88	2.34	2.61	2.21	8.27
MIN	1.51	1.53	1.84	1.63	1.66	1.55	1.48	1.43	1.37	1.36	1.39	1.48