

## SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA

LOCATION.--Lat 34°48'50'', long 83°18'22'', Oconee County, SC-Rabun County, GA, Hydrologic Unit 03060102, on left bank, 150 ft downstream from bridge on U.S. Highway 76, 2.8 mi upstream from Stekoa Creek, 7 mi southeast of Clayton, 9 mi downstream from Warwoman Creek, and 9 mi upstream from confluence with Tallulah River.

DRAINAGE AREA.--207 mi<sup>2</sup>.

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 telemetry with a water stage recorder. Datum of gage is 1,165.6 ft above NGVD of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.--Records good except for the month of September, which is fair.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	606	400	479	998	506	857	682	689	698	878	831	2490
2	525	376	465	905	486	815	664	672	670	3150	875	1490
3	467	359	461	881	473	752	647	652	752	1520	1030	1380
4	429	353	477	825	574	712	635	678	861	1260	975	1080
5	421	392	1050	772	556	704	723	837	722	1130	834	1000
6	386	654	783	731	508	1100	719	2580	677	1410	773	881
7	359	509	638	698	569	989	1290	2520	2320	1190	752	819
8	344	448	586	679	551	851	1090	1780	1810	1030	832	782
9	329	422	555	661	511	796	1030	1360	1210	940	848	751
10	333	559	543	640	516	746	1160	1160	997	924	881	716
11	356	1640	709	608	508	710	1260	1070	906	899	879	685
12	335	1200	633	594	487	684	1030	996	898	841	965	657
13	347	883	694	584	473	667	916	917	1110	885	931	630
14	321	725	871	580	475	650	847	878	951	1010	882	610
15	475	651	727	565	563	651	801	862	957	899	1020	617
16	1350	1150	660	553	628	742	771	842	891	826	918	609
17	671	1190	615	562	899	705	756	854	1100	800	954	573
18	513	876	584	527	717	713	1020	947	974	1070	929	553
19	453	762	576	523	632	915	939	909	1000	808	848	538
20	423	696	1360	524	593	1980	842	850	890	780	795	519
21	402	761	972	528	571	1460	868	860	809	766	808	510
22	391	725	813	525	1900	1120	896	1690	760	861	828	1530
23	371	645	730	507	1780	978	798	1390	729	779	813	2590
24	354	607	1470	458	1150	901	757	1170	702	716	724	1100
25	350	582	1440	496	951	840	766	1020	678	679	673	847
26	379	557	1080	480	883	805	798	934	660	659	657	749
27	354	538	950	472	1000	770	728	866	644	655	651	701
28	382	515	870	462	969	744	696	818	665	661	661	678
29	499	501	814	507	---	727	680	784	652	637	653	594
30	489	494	764	595	---	753	679	755	636	718	650	554
31	445	---	737	543	---	714	---	725	---	857	804	---
TOTAL	13859	20170	24106	18983	20429	26551	25488	33065	27329	30238	25674	27233
MEAN	447	672	778	612	730	856	850	1067	911	975	828	908
MAX	1350	1640	1470	998	1900	1980	1290	2580	2320	3150	1030	2590
MIN	321	353	461	458	473	650	635	652	636	637	650	510
CFSM	2.16	3.25	3.76	2.96	3.52	4.14	4.10	5.15	4.40	4.71	4.00	4.39
IN.	2.49	3.62	4.33	3.41	3.67	4.77	4.58	5.94	4.91	5.43	4.61	4.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

	434	501	643	768	862	939	887	720	593	506	482	435
MEAN	434	501	643	768	862	939	887	720	593	506	482	435
MAX	1524	1509	1358	1747	1728	1829	1633	1725	1439	1542	1453	1118
(WY)	1965	1980	1962	1946	1990	1979	1964	1976	1976	1949	1940	1949
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

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	172616		293125		646	
ANNUAL MEAN	473		803		1098	
HIGHEST ANNUAL MEAN					1949	
LOWEST ANNUAL MEAN					298	
HIGHEST DAILY MEAN	3400	Sep 27	3150	Jul 2	14800	Aug 30 1940
LOWEST DAILY MEAN	112	Sep 12	321	Oct 14	88	Oct 8 1954
ANNUAL SEVEN-DAY MINIMUM	122	Sep 7	338	Oct 8	90	Oct 7 1954
MAXIMUM PEAK FLOW			5690	Sep 23	a 29000	Aug 30 1940
MAXIMUM PEAK STAGE			5.25	Sep 23	13.80	Aug 30 1940
INSTANTANEOUS LOW FLOW			305	Oct 14	88	Oct 8 1954
ANNUAL RUNOFF (CFSM)	2.28		3.88		3.12	
ANNUAL RUNOFF (INCHES)	31.02		52.68		42.42	
10 PERCENT EXCEEDS	813		1150		1150	
50 PERCENT EXCEEDS	424		731		524	
90 PERCENT EXCEEDS	168		473		224	

a From rating curve extended above 4,700 ft<sup>3</sup>/s on basis of slope-area measurements at gage-heights 9.9 and 13.2 ft.

