

SANTEE RIVER BASIN

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02161000 BROAD RIVER AT ALSTON, SC

LOCATION.--Lat 34°14'35'', long 81°19'11'', Fairfield County, Hydrologic Unit 03050106, on left bank at Southern Railway Alston-Peak trestle, 1.2 mi downstream from Parr Shoals Dam, and at mile 200.2.

DRAINAGE AREA.--4,790 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1896 to December 1907, October 1980 to current year.

REVISED RECORDS.--WRD SC-82-1: 1982(M).

GAGE.--Data collection platform. Datum of gage is 211.91 ft above NGVD of 1929. Oct. 1, 1896 to Dec. 31, 1907, nonrecording gage at same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records for the 1897-1908 water years are poor. Regulation at low and medium flow by powerplants above station.

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	3170	2550	3460	3690	2900	9720	4060	2880	1280	3610	3270	1770
2	3070	2420	4090	3130	3010	7410	4510	4140	2650	3770	2480	3030
3	1740	3220	3600	2990	2910	6830	4410	6280	2910	4980	2260	1560
4	2280	2830	3400	2910	4900	5500	4240	4670	1840	5240	2710	3400
5	2300	3250	2250	3790	5240	4320	2790	3710	1550	5470	1000	2170
6	3300	2290	4260	3100	5830	4040	3120	2770	1570	3690	1980	2560
7	3580	2700	4100	3020	15500	4100	3430	3180	1870	3460	2130	3270
8	2370	3190	3770	3500	25000	4280	3760	2880	969	3490	1680	35900
9	2940	4210	3820	4280	15800	4580	3280	2800	2890	2700	2220	66700
10	2690	3730	3240	3420	8700	4480	2920	3140	2010	2310	1250	90500
11	3490	2610	4430	4150	5530	3950	2920	2700	2590	2570	846	54700
12	4030	2040	6170	2940	8060	2950	2670	3020	1690	3170	1760	16100
13	3720	e3090	7140	3540	9460	3960	3110	2410	3090	1690	2460	8690
14	3910	e3200	6440	3300	4910	3260	9390	e2440	5130	2540	7330	6470
15	3560	2450	7700	2510	7500	3720	11000	e2300	2700	2640	2670	7810
16	2700	2390	9050	2520	12100	3270	5450	e2000	7800	2940	2970	9150
17	3900	3690	4760	3160	8830	3460	4620	e2100	12500	1640	1970	5880
18	1660	2120	5320	3380	6000	4100	4200	e2400	5480	2430	1210	9790
19	1650	3190	5220	3740	4510	3180	3600	e2600	4320	2410	1700	9900
20	3550	6370	5460	3340	6540	3490	2890	3190	3150	2490	2670	11200
21	3010	12200	5280	e3230	4430	3710	4010	3050	3310	2550	1670	8900
22	2250	5120	3540	e2830	4720	3130	e3070	2560	4690	2660	1560	3630
23	3410	4490	3580	2840	4270	2790	e4620	2790	6500	1910	3070	5440
24	2610	4610	4440	3270	4130	3280	3230	2360	6600	1930	2390	5980
25	2050	4200	3770	3210	3980	2790	2750	1790	5750	1390	1560	3620
26	2060	3680	3450	3080	4540	3150	2930	1760	10000	2120	2070	4690
27	3450	4050	4330	3520	4580	3060	2620	2000	14000	1460	2020	4370
28	3930	3620	3750	3570	4530	3380	3230	2420	4860	2720	1140	13200
29	3070	3200	3130	3890	4430	3120	3390	1810	4900	3070	2300	20700
30	3750	2940	3080	3380	---	3030	2680	1600	4220	3710	1320	21000
31	3780	---	4050	3120	---	3140	---	1770	---	3740	938	---
TOTAL	92980	109650	140080	102350	202840	125180	118900	85520	132819	90500	66604	442080
MEAN	2999	3655	4519	3302	6994	4038	3963	2759	4427	2919	2149	14740
MAX	4030	12200	9050	4280	25000	9720	11000	6280	14000	5470	7330	90500
MIN	1650	2040	2250	2510	2900	2790	2620	1600	969	1390	846	1560
CFSM	0.63	0.76	0.94	0.69	1.46	0.84	0.83	0.58	0.92	0.61	0.45	3.08
IN.	0.72	0.85	1.09	0.79	1.58	0.97	0.92	0.66	1.03	0.70	0.52	3.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2004, BY WATER YEAR (WY)

	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	4122	4415	6601	7875	10150	10670	8259	5578	5321	3830	5467	4008																																																																																																
MAX	17360	14500	15680	18770	22650	25610	20430	14830	20820	9319	27730	17100																																																																																																
(WY)	1991	1993	1908	1906	1903	1903	1901	2003	1903	1905	1901	1901																																																																																																
MIN	1059	1276	1894	2517	2537	3685	2864	1783	968	849	546	1042																																																																																																
(WY)	2002	2002	2002	2001	2001	1981	1986	2001	2002	2002	2002	1999																																																																																																

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1897 - 2004	
ANNUAL TOTAL	3208760		1709503		6318	
ANNUAL MEAN	8791		4671		11750	
HIGHEST ANNUAL MEAN					2153	
LOWEST ANNUAL MEAN					130000	
HIGHEST DAILY MEAN	91600	Mar 22	90500	Sep 10	130000	Jun 7 1903
LOWEST DAILY MEAN	1650	Oct 19	846	Aug 11	48	Sep 12 2002
ANNUAL SEVEN-DAY MINIMUM	2590	Oct 18	1590	Aug 5	200	Aug 11 2002
MAXIMUM PEAK FLOW			93600		140000	
MAXIMUM PEAK STAGE			24.37		a 29.02	
ANNUAL RUNOFF (CFSM)	1.84		0.975		1.32	
ANNUAL RUNOFF (INCHES)	24.92		13.28		17.92	
10 PERCENT EXCEEDS	18600		7200		12200	
50 PERCENT EXCEEDS	5210		3280		4160	
90 PERCENT EXCEEDS	2800		1960		1610	

a At datum then in use.

e Estimated

