

SANTEE RIVER BASIN

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02171700 SANTEE RIVER NEAR JAMESTOWN, SC

LOCATION.--Lat 33°18'17''. long 79°40'42'', Berkeley County, Hydrologic Unit 03050112, at downstream side of bridge on U.S. Highway 17A, 0.7 mi below Wittee Branch, 0.1 mi upstream from Seaboard Coastline Railroad, 1.5 mi northeast of Jamestown, and at mile 36.4.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Discharge records are available for the period October 1986 to current year. Gage height records are available for the periods January 1974 to July 1976, September 1977 to current year. Gage height records July 1976 to September 1977 are in reports of the National Ocean Survey. April 1929 to current year (gage heights only) are in reports of the National Weather Service.

GAGE.--Data collection platform and acoustic velocity meter. Datum of gage is NGVD of 1929 (levels by South Carolina Public Service Authority). Prior to Jan. 4, 1974, nonrecording gage at same site and datum. Prior to Nov. 19, 1963, nonrecording gage at Seaboard Railroad trestle, 400 ft downstream and at same datum.

REMARKS.--Records fair. Discharge affected by regulation from Lake Marion (see sta 02171000) and redirection from St. Stephens powerplant (see sta 02171645), and during low-flow periods by astronomical tides. The astronomical tides occur at primary harmonic periods of 12.42 hours for semi-diurnal tides and 24.84 hours for diurnal tides. Computed 24-hour daily mean discharge for this site may be affected by aliasing due to tides and, thus, may contain spurious fluctuations or oscillations that are not indicative of net downstream discharge. Discharge records for 1987-2000 water years were computed by utilization of the One-Dimensional flow simulation model (BRANCH) and are rated poor.

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	3390	3260	9560	9360	1940	8120	2230	938	830	8790	1350	23100
2	3040	3280	8750	7050	1330	7310	2390	1070	921	8930	1910	23500
3	3510	3500	6790	4840	1230	6880	3090	2670	1040	10100	4250	15800
4	2910	4350	5690	4930	1490	8060	2770	4270	966	10400	6390	9090
5	2980	2990	6100	6470	1520	11100	3160	4530	950	10300	6530	4840
6	3070	3130	5330	4690	1390	12700	2260	4290	1030	9370	4800	2710
7	2810	3350	6300	7140	1090	14300	2170	5850	1290	9090	1820	3730
8	2670	3000	5960	7600	2620	14500	1850	5090	1290	6380	1170	13400
9	2260	3430	5150	6100	6070	13600	1890	5460	1450	3980	968	16800
10	2510	3770	2680	6890	8940	11400	1860	2820	1340	3160	1020	21500
11	2490	2740	5880	9290	10100	10200	1490	2890	1090	2940	907	24500
12	2530	2500	7210	9180	11300	9870	1940	1800	974	3050	2890	29600
13	2820	2800	8670	6970	12500	7600	1980	1500	1190	3210	12100	34900
14	2340	2770	7480	5920	13500	5480	1790	975	1070	2810	14000	38600
15	2450	3870	6390	4300	15100	5110	1920	1510	1010	2870	9290	43800
16	2690	2350	6490	5920	16700	4880	1840	1930	1010	2970	4220	54500
17	2220	2520	9310	5700	17700	4760	1920	1090	1030	1860	2430	59900
18	2500	1340	11100	4030	19200	4130	1450	865	1200	1800	1660	59300
19	2280	3140	11200	4080	20100	3860	1300	876	982	1310	1590	55900
20	2440	3790	11800	6140	20600	3640	1250	1210	1380	1220	1360	52500
21	2980	4960	12200	8080	19900	3410	1320	868	1200	1600	1090	48400
22	2930	4050	12200	6740	17500	4230	1800	1010	1210	1840	972	43000
23	3650	5360	9410	5570	15100	4240	1590	889	1120	1560	1110	36100
24	3300	5790	6620	4490	12300	3690	1010	828	1570	1040	1160	32400
25	3330	6000	7580	5990	10200	3440	882	800	1910	1440	1120	30900
26	2770	8070	9880	5600	8570	3110	870	815	2640	974	1060	30700
27	3080	8460	10700	3850	7950	2720	844	819	2610	928	995	31000
28	3540	8750	11100	3830	8460	2660	879	792	3350	903	1160	30100
29	3840	8780	11500	4880	8960	2660	989	828	4990	872	7970	30300
30	3660	9320	11500	2480	---	2520	979	939	6070	852	16000	29800
31	3880	---	11500	1370	---	2530	---	964	---	1300	20200	---
TOTAL	90870	131420	262030	179480	293360	202710	51713	61186	48713	117849	133492	930670
MEAN	2931	4381	8453	5790	10120	6539	1724	1974	1624	3802	4306	31020
MAX	3880	9320	12200	9360	20600	14500	3160	5850	6070	10400	20200	59900
MIN	2220	1340	2680	1370	1090	2520	844	792	830	852	907	2710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	7945	7468	12280	13680	15060	20370	14900	9194	6155	5470	7194	7483						
MAX	34380	22410	27870	26400	50000	43460	46750	26770	29840	28620	25170	31020						
(WY)	1991	1996	1993	1998	1998	2003	2003	1991	2003	2003	2003	2004						
MIN	868	1177	887	848	928	1014	1052	1067	843	853	903	939						
(WY)	1994	2002	2002	2002	2002	2002	2002	1988	1988	1988	2000	2000						

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	7357391		2503493		10590	
ANNUAL MEAN	20160		6840		20390	
HIGHEST ANNUAL MEAN					1058	
LOWEST ANNUAL MEAN					90600	
HIGHEST DAILY MEAN	90600	Mar 28	59900	Sep 17	90600	Mar 28 2003
LOWEST DAILY MEAN	853	Feb 9	792	May 28	460	Nov 13 1986
ANNUAL SEVEN-DAY MINIMUM	1140	Jan 27	824	May 23	515	Sep 22 1989
MAXIMUM PEAK FLOW			68400		Sep 18	102000
MAXIMUM PEAK STAGE			17.40		Sep 18	22.84
10 PERCENT EXCEEDS	40300		14700		25000	
50 PERCENT EXCEEDS	20900		3420		6560	
90 PERCENT EXCEEDS	2720		1010		923	

