

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29300	1040	12200	19400	2020	8380	e24300	10800	6710	9570	994	10300
2	29500	1130	12600	20400	2440	10500	e24600	11400	8220	11100	1800	8370
3	29500	1610	12300	20800	1860	12100	e25400	11300	10300	10200	3880	7530
4	29400	2060	12400	20200	2440	15000	e27400	10300	13600	11300	7040	7360
5	29700	2270	12300	20900	2150	16400	e29300	9310	15600	12200	8680	6730
6	29000	3080	12000	22000	1660	18000	e32000	8180	18400	14000	7950	5590
7	29100	4390	13000	21800	1500	e14800	e32200	6550	19400	16600	6680	4290
8	28400	9930	13400	21100	1480	e14000	e32000	6910	20300	19700	6720	3830
9	27800	11000	13600	19600	1450	e13200	e28100	5870	21100	21200	7890	3140
10	26600	11100	14000	17100	1360	e12400	e26100	3690	21300	22300	8390	1380
11	23700	11000	13300	14800	3860	e11500	e25500	3660	20600	23300	9070	1090
12	21200	10700	13100	10900	5380	e10300	22600	3580	18700	22800	9220	1100
13	19300	10400	12900	8430	4480	e10400	22100	3360	17200	22500	9410	1430
14	17500	10200	13700	8540	3160	e10600	22100	3100	15500	23100	9560	1110
15	14200	10500	14600	10200	1230	e10600	21600	1150	14400	e23600	9760	867
16	11000	9900	15400	10500	1050	e10300	20500	906	13000	e22900	9730	999
17	6320	9870	15900	10800	916	e10400	20900	952	11800	22600	8450	1070
18	4510	9320	17100	11200	1640	e10900	21900	1140	11000	22400	7320	1060
19	4070	9420	17000	11500	2400	e11300	22100	1070	10900	22500	7940	1070
20	4110	9730	17300	12200	1660	e11500	21600	1030	9340	21900	8940	1070
21	3910	9170	17600	12800	1300	e12000	19900	1110	7370	20500	9250	1010
22	3270	8890	17800	13200	1840	e12000	17900	1080	5170	18400	8040	974
23	3270	9610	17300	13000	1900	e12100	14300	1360	4690	16600	4980	965
24	1880	9900	17100	12300	2370	e12000	14200	3260	3740	13700	6490	940
25	1610	10800	17200	12400	3400	e12400	8640	6460	3640	12100	7510	893
26	1570	11600	17700	11900	4580	e12300	10100	6480	4170	11500	9740	1040
27	1520	12000	17800	9290	5120	e12600	10800	6600	3810	10600	10800	1180
28	1410	11900	18200	6680	7000	e14200	12000	7280	4080	8950	11500	850
29	1440	12500	18400	3060	---	e15800	11800	6470	5960	5410	11500	1360
30	1350	12400	18700	1720	---	e20700	11200	6260	6990	3890	11500	1120
31	1120	---	18800	1390	---	e23100	---	6270	---	1480	10800	---
TOTAL	436560	257420	474700	410110	71646	401780	633140	156888	346990	498990	251534	79718
MEAN	14080	8581	15310	13230	2559	12960	21100	5061	11570	16090	8114	2657
MAX	29700	12500	18800	22000	7000	23100	32200	11400	21300	23600	11500	10300
MIN	1120	1040	12000	1390	916	8380	8640	906	3640	1480	994	850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)	(WY)
MEAN	8286	7534	12450	13660	14330	19940	15270	8950	6440	6029	7248	7200
MAX	34380	22410	27870	26400	50000	43460	46750	26770	29840	28620	25170	31020
MIN	1991	1996	1993	1998	1998	2003	2003	1991	2003	2003	2003	2004
(WY)	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

SANTEE RIVER BASIN

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	3187853		4019386		10610	
ANNUAL MEAN	8710		11010		20390	
HIGHEST ANNUAL MEAN					1058	
LOWEST ANNUAL MEAN					2003	
HIGHEST DAILY MEAN	59900	Sep 17	32200	Apr 7	90600	Mar 28 2003
LOWEST DAILY MEAN	792	May 28	850	Sep 28	460	Nov 13 1986
ANNUAL SEVEN-DAY MINIMUM	824	May 23	977	Sep 22	515	Sep 22 1989
MAXIMUM PEAK FLOW			35900		102000	
MAXIMUM PEAK STAGE			14.37		22.84	
10 PERCENT EXCEEDS	20300		22100		24800	
50 PERCENT EXCEEDS	4520		10500		6960	
90 PERCENT EXCEEDS	1010		1360		934	

e Estimated

