

## SANTEE RIVER BASIN

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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1140	5440	24600	1340	23100	58000	37700	55800	23800	18300	20900
2	1380	1180	5650	25300	1070	24100	48500	29600	54200	23400	17300	19300
3	1410	1110	4060	24700	1570	24200	41600	26100	50100	23300	15900	16100
4	1400	1260	3760	24200	1250	25100	34700	24100	43300	25600	14800	12500
5	1240	1190	4180	24300	1280	24900	29300	24000	33900	29100	15900	8610
6	1120	1230	5380	23500	1160	25700	27100	22600	27500	29800	17200	6920
7	1330	1380	4880	22900	1150	24900	25100	22300	25500	30800	20500	6450
8	1360	1700	5630	21700	972	25000	24500	22500	24800	31400	23200	6660
9	1470	1250	6000	20200	853	26400	25100	22500	24700	31400	25600	6910
10	1380	1020	6870	17700	1350	29500	28000	21900	24300	31700	27100	5760
11	1000	941	8790	15300	4730	31500	29900	22100	24000	31800	27800	6250
12	2570	978	10100	12800	5030	35200	31100	21700	25400	31100	28100	6820
13	2520	1440	11100	11500	6560	36700	36100	23500	27800	30900	28700	8240
14	2460	2260	12200	9420	6500	38200	45700	22900	30300	30900	28600	8020
15	2410	1540	13000	7260	8050	36800	56700	22100	31200	30700	28500	7870
16	2350	1410	14200	6180	9220	38300	63800	22100	30800	31200	27900	7270
17	1980	1310	16300	3350	9650	39600	70100	21600	30800	31400	27600	6170
18	1790	1820	18700	5190	10200	39700	73300	21000	28200	30900	28200	5540
19	1670	2310	20500	4320	11100	39800	70700	22100	27900	31200	28500	5230
20	1460	2590	20100	4340	12100	39600	63900	21500	26500	31100	28800	5370
21	1350	4570	19700	3320	13400	40700	58200	20400	26800	30700	28800	4520
22	1530	6470	19800	2070	15700	40100	50900	18600	26200	31100	28200	5360
23	1330	7280	19200	1950	18300	42100	45300	17800	25300	28500	28400	5380
24	1280	7630	19500	4470	20200	52700	50000	18000	24900	25700	28500	4100
25	1230	8360	19800	2240	21600	68700	51500	18800	24900	26700	28000	3670
26	1180	7500	20500	1200	21400	80500	54900	20400	24400	27700	27600	3720
27	1070	6310	21100	894	22100	87600	55200	22300	23800	28600	27500	3880
28	1140	5530	21300	938	22200	90600	55700	26100	24000	28400	27500	4110
29	1240	6750	22000	952	---	83500	51700	29900	24200	26100	27700	4220
30	1170	6050	23100	992	---	68700	45900	40900	23600	22700	26300	3520
31	1090	---	24000	1780	---	63900	---	54500	---	19600	23200	---
TOTAL	47230	95509	426840	329566	250035	1347400	1402500	761600	895100	887300	780200	219370
MEAN	1524	3184	13770	10630	8930	43460	46750	24570	29840	28620	25170	7312
MAX	2570	8360	24000	25300	22200	90600	73300	54500	55800	31800	28800	20900
MIN	1000	941	3760	894	853	23100	24500	17800	23600	19600	14800	3520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	8258	7674	12520	14210	15400	21300	15780	9675	6422	5568	7387	5914					
MAX	34380	22410	27870	26400	50000	43460	46750	26770	29840	28620	25170	16260					
(WY)	1991	1996	1993	1998	1998	2003	2003	1991	2003	2003	2003	1995					
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					

02171700 SANTEE RIVER NEAR JAMESTOWN, SC--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1987 - 2003	
ANNUAL TOTAL	854253		7442650		10860	
ANNUAL MEAN	2340		20390		20390	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					1058	
HIGHEST DAILY MEAN	24000	Dec 31	90600	Mar 28	90600	Mar 28 2003
LOWEST DAILY MEAN	656	Jan 7	853	Feb 9	460	Nov 13 1986
ANNUAL SEVEN-DAY MINIMUM	755	Jan 19	1140	Jan 27	515	Sep 22 1989
MAXIMUM PEAK FLOW			102000		102000	
MAXIMUM PEAK STAGE			22.84		22.84	
10 PERCENT EXCEEDS	5080		40300		25200	
50 PERCENT EXCEEDS	1070		21500		7060	
90 PERCENT EXCEEDS	816		1330		918	

