

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 records for 1987-2000 water years were computed by utilization of the One-Dimensional unsteady flow simulation model (BRANCH) and are rated poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1270	1140	e1400	971
2	---	---	---	---	---	---	---	---	1160	1040	e1500	1060
3	---	---	---	---	---	---	---	---	1140	1050	1620	1240
4	---	---	---	---	---	---	---	---	1260	1150	1670	1400
5	---	---	---	---	---	---	---	---	1620	1050	1110	1280
6	---	---	---	---	---	---	---	---	1240	1020	1100	1630
7	---	---	---	---	---	---	---	---	1200	1120	1310	1240
8	---	---	---	---	---	---	---	---	1090	1150	1150	1190
9	---	---	---	---	---	---	---	---	1170	1120	1420	1240
10	---	---	---	---	---	---	---	---	1250	1080	1680	1160
11	---	---	---	---	---	---	---	---	1230	1140	1280	1390
12	---	---	---	---	---	---	---	---	1100	1950	967	1130
13	---	---	---	---	---	---	---	---	1010	1330	895	1220
14	---	---	---	---	---	---	---	---	1070	1140	817	1210
15	---	---	---	---	---	---	---	---	1840	1070	1110	1300
16	---	---	---	---	---	---	---	---	2820	1050	1310	1550
17	---	---	---	---	---	---	---	1370	1400	1080	1140	1700
18	---	---	---	---	---	---	---	1500	1180	1040	1060	1630
19	---	---	---	---	---	---	---	1310	1110	1040	1050	1400
20	---	---	---	---	---	---	---	1150	1170	1000	1120	1380
21	---	---	---	---	---	---	---	1310	1190	1360	1080	1740
22	---	---	---	---	---	---	---	1300	1300	1520	1200	1340
23	---	---	---	---	---	---	---	1240	1880	1550	1210	946
24	---	---	---	---	---	---	---	1340	1660	1340	1090	1030
25	---	---	---	---	---	---	---	1930	1400	1120	1070	1050
26	---	---	---	---	---	---	---	2060	1380	1060	1220	1030
27	---	---	---	---	---	---	---	e1800	1330	1000	1240	1040
28	---	---	---	---	---	---	---	e1650	1210	1030	1140	1090
29	---	---	---	---	---	---	---	1450	1210	1190	967	1170
30	---	---	---	---	---	---	---	2160	1150	e1300	969	1200
31	---	---	---	---	---	---	---	1280	---	e1600	916	---
TOTAL	---	---	---	---	---	---	---	---	40040	36830	36811	37957
MEAN	---	---	---	---	---	---	---	---	1335	1188	1187	1265
MAX	---	---	---	---	---	---	---	---	2820	1950	1680	1740
MIN	---	---	---	---	---	---	---	---	1010	1000	817	946

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	9239	8519	13260	15510	16990	21150	14530	9187	5211	4333	6508	6170			
MAX	34380	22410	27870	26400	50000	40770	29470	26770	16220	14930	25120	16260			
(WY)	1991	1996	1993	1998	1998	1987	1998	1991	1992	1989	1991	1995			
MIN	868	1492	2192	3082	3238	3566	2067	1067	843	853	903	939			
(WY)	1994	2000	2000	1989	1989	1988	1988	1988	1988	1988	2000	2000			

SUMMARY STATISTICS

WATER YEARS 1987 - 2001

ANNUAL MEAN	10880
HIGHEST ANNUAL MEAN	17880
LOWEST ANNUAL MEAN	4081
HIGHEST DAILY MEAN	89500
LOWEST DAILY MEAN	460
ANNUAL SEVEN-DAY MINIMUM	515
MAXIMUM PEAK FLOW	89500
MAXIMUM PEAK STAGE	21.92
10 PERCENT EXCEEDS	24700
50 PERCENT EXCEEDS	7820
90 PERCENT EXCEEDS	936

SANTEE RIVER BASIN

02171700 SANTEE RIVER NEAR JAMESTOWN, SC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	1160	911	824	824	1030	1050	901	1400	908	910	1220
2	1720	1240	952	1070	801	995	1050	968	1400	886	1010	1180
3	1940	1190	926	1220	940	1040	1110	1070	1110	879	1090	1380
4	1300	1170	1010	1240	812	1010	1020	944	1370	868	1220	1280
5	1200	1120	967	1250	1040	957	1050	901	1370	984	1010	1050
6	1250	1280	876	870	861	862	1060	914	1110	1170	1380	1010
7	1160	2590	853	656	920	870	991	916	1450	1450	1230	1180
8	1050	1220	894	713	796	804	978	1140	1100	1080	1240	1210
9	1180	991	919	1060	847	816	878	1030	1220	928	1240	1100
10	1210	1010	987	763	887	831	868	1120	1240	878	1180	1170
11	1720	980	1110	723	818	813	846	800	1120	788	1110	1120
12	1190	1010	909	696	959	917	1020	856	1500	1040	1040	1080
13	1000	1870	944	738	899	883	1010	858	1040	1260	952	1100
14	1170	1470	927	783	841	800	1050	805	985	1060	968	980
15	1090	1110	838	788	971	827	938	847	924	963	987	968
16	1280	1280	866	921	871	842	1000	1180	1020	1060	898	925
17	1390	1260	927	818	759	821	916	1560	1050	1150	808	886
18	1200	1150	894	740	990	1070	1360	1250	1980	e2000	802	1000
19	1180	1140	896	728	947	1150	1510	868	1210	e1500	1050	1110
20	1210	1050	809	734	837	1020	968	977	1120	1010	1110	1110
21	1200	1060	806	792	788	920	1010	1260	1230	1440	835	1190
22	1080	1030	975	719	763	964	1210	2190	1240	1150	838	1120
23	1080	1010	888	805	845	961	891	1610	1250	1000	950	1150
24	1150	1090	775	770	942	900	1040	1270	1080	920	831	1030
25	1120	1060	788	738	1690	1390	1070	1030	990	923	918	1190
26	850	876	847	927	1260	2020	945	994	955	814	1020	1610
27	1010	1020	738	948	894	1220	1060	1030	1000	873	949	1660
28	1180	1070	786	811	1170	1110	1060	1090	831	873	959	1610
29	1840	e950	822	797	---	1220	1360	1390	842	920	987	1570
30	1560	859	785	820	---	1220	1230	1720	816	807	1050	1330
31	1020	---	858	826	---	1140	---	1390	---	797	1140	---
TOTAL	38870	35316	27483	26288	25972	31423	31549	34879	34953	32379	31712	35519
MEAN	1254	1177	887	848	928	1014	1052	1125	1165	1044	1023	1184
MAX	1940	2590	1110	1250	1690	2020	1510	2190	1980	2000	1380	1660
MIN	850	859	738	656	759	800	846	800	816	788	802	886

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	8707	7995	12440	14470	15860	19710	13570	8611	4958	4127	6116	5814
MAX	34380	22410	27870	26400	50000	40770	29470	26770	16220	14930	25120	16260
(WY)	1991	1996	1993	1998	1998	1987	1998	1991	1992	1989	1991	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

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SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1987 - 2002

ANNUAL TOTAL	386343			
ANNUAL MEAN	1058			10120
HIGHEST ANNUAL MEAN				17880
LOWEST ANNUAL MEAN				1058
HIGHEST DAILY MEAN	2590	Nov 7		89500
LOWEST DAILY MEAN	656	Jan 7		460
ANNUAL SEVEN-DAY MINIMUM	755	Jan 19		515
MAXIMUM PEAK FLOW	4300	Nov 7		89500
MAXIMUM PEAK STAGE	4.66	May 22		21.92
10 PERCENT EXCEEDS	1360			24400
50 PERCENT EXCEEDS	1010			6580
90 PERCENT EXCEEDS	808			911

e Estimated

