

02171700 SANTEE RIVER NEAR JAMESTOWN, SC

Santee Basin
Santee Subbasin

LOCATION.--Lat 33°18'17", long 79°40'42" referenced to North American Datum of 1927, Berkeley County, SC, 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 river mile 36.4.

DRAINAGE AREA.--10,750 mi².

SURFACE-WATER RECORDS

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). Astronomical tides cause cycles of approximately 24.8 hours at this site during periods of low to medium flow. During periods of higher flow, the tidal influence is overcome by basin runoff. Previously published 24-hour daily mean values may contain cycles with periods of 2-4 weeks that were a result of the 24-hour averaging and are unrelated to stream hydrology. October 2005 to current year, tidal effects were removed from unit value discharges using the Godin filter. Daily mean discharge computed from filtered values. Unit values available upon request. Discharge records for 1987-2000 water years were computed by utilization of the One-Dimensional flow simulation model (BRANCH) and are rated poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 102,000 ft³/s, Mar. 28, 2003, maximum gage height, 22.84 ft, Mar. 28, 2003; minimum discharge, -2,390 ft³/s, Oct. 24, 2008, minimum gage height, 0.63 ft, Dec. 22, 2012.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 54,300 ft³/s, July 20, maximum gage height, 17.81 ft, July 19, 20; minimum discharge, -1,440 ft³/s, Nov. 14, minimum gage height, 0.63 ft, Dec. 22.

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DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	701	676	618	6,280	4,820	14,200	14,800	14,500	8,130	7,330	21,900	13,100
2	720	664	639	6,630	6,730	13,400	13,900	17,000	7,200	8,450	22,400	10,900
3	727	611	613	6,260	7,870	12,800	13,100	18,300	6,700	9,750	22,500	8,910
4	724	612	676	6,580	8,230	12,400	13,000	18,700	6,550	12,300	22,000	7,650
5	698	572	652	6,630	7,870	12,200	13,400	19,500	7,050	15,800	21,900	6,900
6	673	579	542	6,440	6,900	12,200	13,400	20,700	8,670	18,800	22,000	6,480
7	679	600	634	6,410	6,410	12,200	13,000	22,000	10,100	20,700	22,100	6,380
8	705	600	672	6,240	6,290	11,600	12,400	23,000	11,000	21,600	21,800	6,390
9	738	600	658	5,940	6,160	10,500	11,900	24,200	11,400	22,500	21,500	6,380
10	679	620	640	6,420	6,030	9,080	11,300	26,000	11,800	23,700	21,300	5,500
11	625	667	593	6,510	6,290	7,730	11,200	28,000	13,400	25,400	21,200	4,270
12	618	688	624	6,410	7,460	6,190	11,600	30,000	15,900	27,300	20,900	3,700
13	585	657	609	6,580	9,010	6,670	11,400	33,200	18,300	30,400	19,300	3,630
14	621	594	640	6,430	11,100	7,050	10,100	37,300	19,900	33,200	17,700	2,990
15	619	676	664	5,170	13,000	6,450	8,150	38,200	21,200	37,700	16,800	1,590
16	613	681	661	4,040	15,000	5,690	6,720	36,100	21,000	43,500	17,700	1,110
17	580	642	681	3,690	17,300	5,600	5,770	32,400	20,600	46,600	19,800	942
18	574	728	649	4,540	19,400	5,780	5,280	28,100	20,900	48,200	21,400	1,470
19	635	749	656	5,950	20,200	5,870	5,230	25,300	21,400	49,000	21,900	2,830
20	658	695	655	7,570	19,200	6,330	5,760	24,800	20,800	48,600	22,100	3,350
21	666	708	582	8,920	17,000	6,860	6,520	23,500	19,100	47,800	22,100	3,370
22	688	687	603	10,200	15,000	7,610	6,870	20,000	16,900	46,200	21,700	3,320
23	697	680	694	11,200	14,100	7,780	6,920	16,500	15,000	43,600	21,400	3,260
24	676	691	717	11,600	14,200	7,620	6,530	14,100	13,500	40,700	22,000	3,240
25	590	685	654	12,000	14,900	9,600	6,740	13,100	12,200	36,300	22,700	3,110
26	530	642	668	12,500	15,800	12,200	6,980	12,600	10,600	31,900	22,700	3,210
27	587	628	698	11,900	16,200	14,500	7,080	12,100	8,590	28,000	22,300	3,310
28	624	671	645	10,400	15,300	16,800	8,190	11,400	7,160	25,500	21,800	3,310
29	584	633	718	8,980	---	18,200	10,000	10,500	6,480	24,500	21,000	3,210
30	581	634	2,070	6,740	---	17,800	12,200	9,800	6,510	23,000	19,300	3,230
31	617	---	5,370	4,810	---	16,200	---	9,100	---	21,900	16,000	---
Max	738	749	5,370	12,500	20,200	18,200	14,800	38,200	21,400	49,000	22,700	13,100
Min	530	572	542	3,690	4,820	5,600	5,230	9,100	6,480	7,330	16,000	942

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