

SANTEE RIVER BASIN

02171500 SANTEE RIVER NEAR PINEVILLE, SC

LOCATION.--Lat 33°27'15", long 80°08'30", Berkeley County, Hydrologic Unit 03050112, on right bank 2.4 mi downstream from Lake Marion Dam, 3.0 mi upstream from Dead River, 6.7 mi west of Pineville, and at mile 85.0.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Data collection platform. Datum of gage is 22.83 ft above NGVD of 1929 (from South Carolina Geodetic Survey benchmark). Prior to Feb. 25, 1943, nonrecording gage at site 2.2 mi upstream of temporary water-stage recorder operated by U.S. Army Corps of Engineers, at site 200 ft upstream, at different datum. One additional gage is used for computation of discharge at this station, which is located 2.4 mi upstream at Lake Marion Tailrace (see sta 02171001).

REMARKS.--Records poor. Discharge records for 1987-2004 water years are computed by utilization of a One-Dimensional unsteady flow simulation model (BRANCH). Flow completely regulated by Lake Marion (station 02171000). Water is diverted above station from Lake Marion through Diversion Canal into Lake Moultrie (station 02172000) for generation of power and for navigation, then discharged into Cooper River Basin (station 02172002) and lower Santee (station 02171645). During periods of incomplete gage-height record, values of daily mean discharge from Lake Marion Hydro and Spillway were obtained from the South Carolina Public Service Authority. These values are shown as estimated daily discharges. Seepage from north dike of Lake Marion Dam bypasses station via Little River (station 02171520).

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	628	658	615	e650	701	683	739	716	662	666	685	690
2	629	658	607	715	701	684	724	729	627	668	687	697
3	629	659	608	718	702	686	690	855	627	667	685	703
4	629	657	612	716	701	686	718	653	625	666	684	707
5	631	658	608	718	702	685	690	650	625	668	701	709
6	629	659	608	714	713	709	690	644	625	665	691	710
7	629	659	603	714	822	788	688	644	626	663	692	722
8	634	659	604	714	752	818	691	643	627	668	695	720
9	634	660	604	716	730	671	692	643	615	662	696	709
10	e650	659	609	711	718	682	692	644	614	662	698	3550
11	e650	687	833	708	695	680	691	643	627	e650	699	23300
12	e650	713	603	710	703	681	693	644	629	e650	710	32100
13	e650	734	651	711	694	681	778	643	628	e650	704	34400
14	645	708	613	709	694	678	850	641	629	695	704	34800
15	750	706	608	707	692	682	721	641	620	715	709	22300
16	668	707	607	711	683	683	719	641	629	678	712	13600
17	631	689	772	710	680	682	721	640	630	682	712	12700
18	629	676	734	710	674	682	718	640	631	645	718	6070
19	628	679	831	706	672	684	723	639	631	682	716	1200
20	627	e650	725	708	675	686	724	641	630	680	721	854
21	627	e650	717	711	695	694	722	640	630	680	722	737
22	630	e650	721	710	683	686	721	638	633	681	728	693
23	626	e650	719	709	684	685	720	638	685	681	726	668
24	628	e650	718	710	685	686	718	643	741	686	729	679
25	626	e650	723	711	685	685	721	651	675	685	730	696
26	626	682	722	713	691	685	722	648	714	685	733	698
27	649	680	721	713	688	685	796	650	680	687	732	712
28	660	1000	717	724	685	685	736	660	750	684	736	1040
29	666	1010	e650	701	683	696	716	636	768	683	2340	731
30	659	610	e650	701	---	708	718	635	667	683	1030	717
31	658	---	e650	703	---	713	---	681	---	684	690	---
TOTAL	19905	20767	20763	21982	20283	21519	21642	20354	19500	20901	23915	198612
MEAN	642	692	670	709	699	694	721	657	650	674	771	6620
MAX	750	1010	833	724	822	818	850	855	768	715	2340	34800
MIN	626	610	603	650	672	671	688	635	614	645	684	668

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	1898	831	1427	2530	3937	5601	4366	1349	1003	703	822	1348
MAX	27160	6745	17290	20400	36010	23690	19470	14820	10120	6185	8034	25500
(WY)	1965	1948	1949	1946	1960	1975	1973	1958	1973	1943	1967	1945
MIN	430	447	456	436	481	362	481	477	479	401	450	445
(WY)	1950	1953	1980	1991	1959	1947	1947	1947	1981	1942	1982	1982

02171500 SANTEE RIVER NEAR PINEVILLE, SC--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	1636363		430143		2141	
ANNUAL MEAN	4483		1175		7682	
HIGHEST ANNUAL MEAN					1960	
LOWEST ANNUAL MEAN					491	
HIGHEST DAILY MEAN	85400	Mar 24	34800	Sep 14	153000	Sep 22 1945
LOWEST DAILY MEAN	338	Apr 1	603	Dec 7	a 9	Feb 23 1947
ANNUAL SEVEN-DAY MINIMUM	543	Jul 1	607	Dec 3	25	Feb 17 1947
MAXIMUM PEAK FLOW			42000	Sep 14	b 155000	Sep 23 1945
MAXIMUM PEAK STAGE			23.65	Sep 15	31.10	Sep 23 1945
10 PERCENT EXCEEDS	16300		734		1500	
50 PERCENT EXCEEDS	654		685		549	
90 PERCENT EXCEEDS	591		629		488	

a Caused by repair work at spillway at Lake Marion.

b From rating curve extended above 13,000 ft³/s on basis of computation of peak flow over spillway at Lake Marion.

e Estimated

