

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 and acoustic velocity meter. 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.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	675	823	557	550	530	1920	e5060	510	485	608	718	586
2	624	2940	547	549	538	1220	27900	492	533	651	699	583
3	639	2920	542	547	559	579	23900	529	583	657	664	614
4	686	3550	538	538	562	545	11100	511	651	662	628	587
5	704	5570	538	555	556	619	7860	580	639	686	664	632
6	705	5720	534	557	551	547	7410	625	583	677	656	691
7	712	3350	539	546	550	527	6580	578	590	617	707	687
8	697	1170	537	546	550	1840	2260	568	583	671	626	638
9	682	1010	550	539	528	705	1090	539	547	602	613	587
10	675	953	549	532	548	566	812	521	546	621	606	637
11	655	871	575	529	543	908	680	488	549	616	609	672
12	642	515	561	519	532	1560	701	416	533	639	625	708
13	675	509	569	526	527	586	820	301	507	685	592	720
14	716	528	565	538	527	539	805	318	577	702	605	757
15	954	517	550	545	528	532	842	333	718	645	612	699
16	676	537	548	545	530	541	793	527	603	628	622	635
17	651	650	559	547	529	540	738	487	566	600	679	620
18	640	621	550	537	533	538	730	490	573	631	628	607
19	638	618	687	535	530	526	674	520	655	609	647	545
20	645	620	874	523	527	516	639	548	678	604	634	577
21	639	601	561	517	526	516	573	546	663	655	668	579
22	637	595	554	528	525	e589	654	543	637	598	603	548
23	626	597	538	586	524	e582	1420	741	572	623	607	635
24	618	586	552	533	538	e577	2440	676	582	652	637	581
25	620	1230	561	526	535	e574	897	519	642	683	643	609
26	610	630	578	523	529	e575	573	499	624	682	658	663
27	635	575	571	523	533	e568	883	498	621	664	644	613
28	682	591	566	527	547	2440	596	542	635	661	612	588
29	508	558	557	532	---	1280	516	492	662	660	614	602
30	533	544	554	530	---	e625	517	544	666	687	561	637
31	599	---	553	532	---	e650	---	495	---	700	671	---
TOTAL	20398	40499	17614	16660	15035	24830	110463	15976	18003	20076	19752	18837
MEAN	658	1350	568	537	537	801	3682	515	600	648	637	628
MAX	954	5720	874	586	562	2440	27900	741	718	702	718	757
MIN	508	509	534	517	524	516	516	301	485	598	561	545

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005, BY WATER YEAR (WY)

MEAN	1879	839	1413	2498	3884	5525	4356	1336	997	702	819	1337
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

SANTEE RIVER BASIN

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005	
ANNUAL TOTAL	447219		338143		2121	
ANNUAL MEAN	1222		926		7682	
HIGHEST ANNUAL MEAN					1960	
LOWEST ANNUAL MEAN					491	
HIGHEST DAILY MEAN	34800	Sep 14	27900	Apr 2	153000	Sep 22 1945
LOWEST DAILY MEAN	508	Oct 29	301	May 13	a 9	Feb 23 1947
ANNUAL SEVEN-DAY MINIMUM	539	Dec 2	410	May 11	25	Feb 17 1947
MAXIMUM PEAK FLOW			35900	Apr 2	b 155000	Sep 23 1945
MAXIMUM PEAK STAGE			22.66	Apr 2	31.10	Sep 23 1945
10 PERCENT EXCEEDS	757		815		1480	
50 PERCENT EXCEEDS	685		597		550	
90 PERCENT EXCEEDS	574		526		489	

a Caused by repair work at spillway at Lake Marion.

b From rating curve extended above 13,000 ft<sup>3</sup>/s on basis of computation of peak flow over spillway at Lake Marion.

e Estimated

