Water-Data Report 2011

02171500 SANTEE RIVER NEAR PINEVILLE, SC

Santee Basin
Santee Subbasin

LOCATION.--Lat 33°27′15″, long 80°08′30″ referenced to North American Datum of 1927, Berkeley County, SC, Hydrologic Unit 03050112, on right bank 2.4 mi downstream from LakeMarion Dam, 3.0 mi upstream from Dead River, 6.7 mi west of Pineville, and at mile 85.0.

SURFACE-WATER RECORDS

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.

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 the station from Lake Marion through Diversion Canal into Lake Moultrie (station 02172000) for generation of power and for navigation, and 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).

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	722	631	710	649	668	669	999	678	675	666	659	667
2	688	642	672	643	683	680	936	667	679	664	646	666
3	674	649	653	650	662	681	709	693	689	654	648	675
4	694	647	655	680	676	673	681	761	685	652	649	665
5	690	650	639	675	709	672	1,530	650	689	658	655	666
6	680	645	630	699	686	754	725	662	697	667	619	677
7	673	648	649	665	694	674	678	661	727	657	651	660
8	688	623	646	678	698	675	674	670	744	659	644	643
9	689	617	643	662	688	685	684	672	709	665	561	646
10	678	636	651	655	677	746	679	673	662	672	666	642
11	678	641	661	653	681	861	683	710	652	672	706	647
12	679	630	752	689	683	695	816	683	660	665	674	651
13	681	637	849	655	686	684	722	683	650	666	676	620
14	682	634	660	677	692	684	680	684	656	663	677	658
15	675	626	653	679	686	689	690	689	667	666	650	665
16	671	626	672	677	683	676	715	729	674	674	660	645
17	675	638	677	663	686	676	737	686	664	676	663	630
18	682	614	663	669	677	677	673	678	669	655	667	631
19	e635	610	655	667	670	675	668	689	679	664	660	660
20	e635	633	665	675	674	686	669	684	659	659	670	655
21	652	632	670	651	686	678	667	676	658	662	666	675
22	647	607	670	665	678	673	688	691	665	665	578	665
23	652	626	652	664	670	726	665	693	665	657	650	673
24	655	651	665	675	679	797	670	687	672	653	658	683
25	653	657	663	659	679	669	673	682	663	659	661	680
26	649	661	661	701	672	664	676	690	662	670	640	681
27	648	642	676	669	679	692	666	701	662	648	692	681
28	655	640	656	654	688	664	709	688	657	648	667	682
29	641	654	653	674	---	711	682	690	654	650	676	677
30	629	654	645	658	---	731	661	681	663	654	666	674
31	630	---	650	652	---	679	---	681	---	656	669	---
Total	20,680	19,101	20,716	20,682	19,090	21,596	22,105	21,262	20,207	20,496	20,324	19,840
Mean	667	637	668	667	682	697	737	686	674	661	656	661
Max	722	661	849	701	709	861	1,530	761	744	676	706	683
Min	629	607	630	643	662	664	661	650	650	648	561	620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,831	838	1,551	2,478	3,801	5,269	4,096	1,289	973	701	804	1,279
Max	27,160	6,745	17,290	20,400	36,010	23,690	19,470	14,820	10,120	6,185	8,034	25,500
(WY)	(1965)	(1948)	(1949)	(1946)	(1960)	(1975)	(1973)	(1958)	(1973)	(1943)	(1967)	(1945)
Min	430	447	346	436	481	362	481	477	479	401	450	445
(WY)	(1950)	(1953)	(2005)	(1991)	(1959)	(1947)	(1947)	(1947)	(1981)	(1942)	(1982)	(1982)

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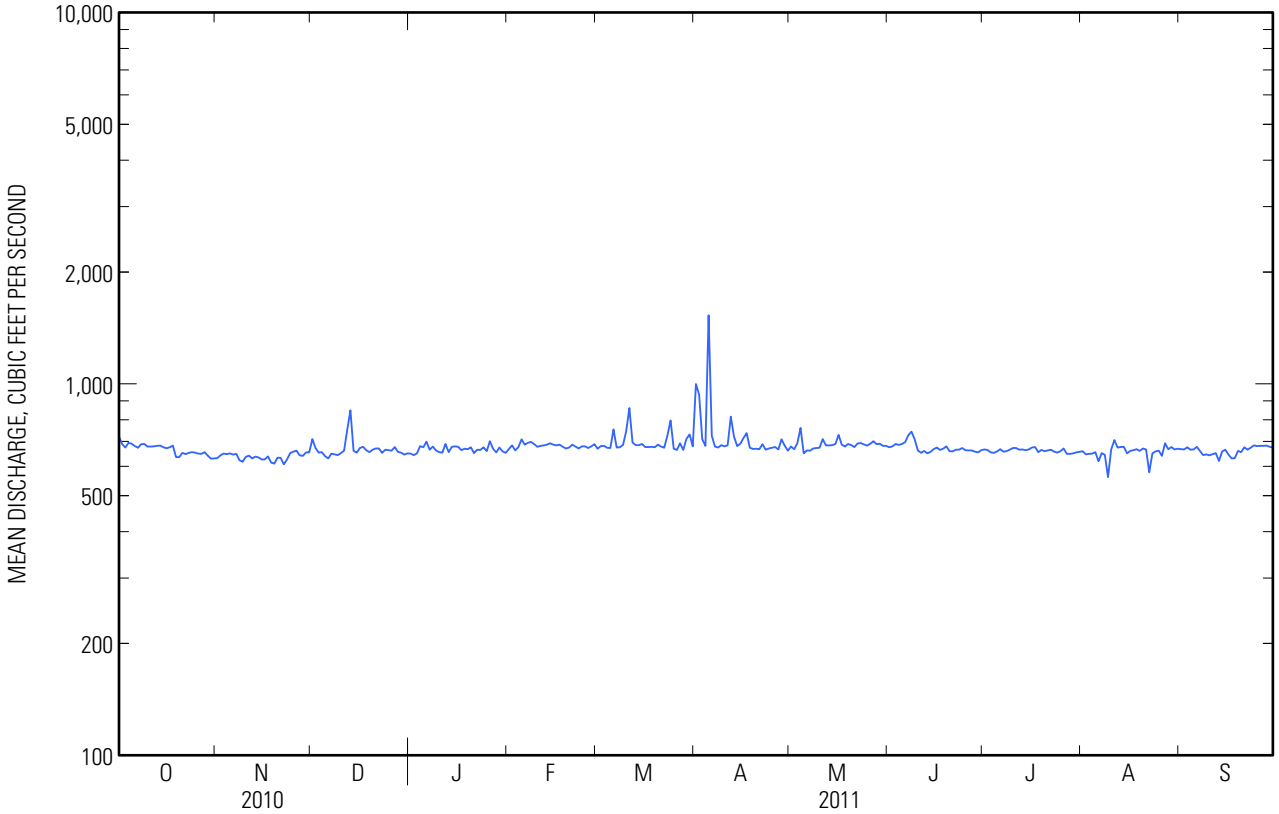
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1942 - 2011	
Annual total	674,990		246,099			
Annual mean	1,849		674		2,094	
Highest annual mean					7,682	1960
Lowest annual mean					491	1985
Highest daily mean	48,700	Feb 10	1,530	Apr 5	153,000	Sep 22, 1945
Lowest daily mean	607	Nov 22	561	Aug 9	[a]9.0	Feb 23, 1947
Annual seven-day minimum	623	Nov 16	623	Nov 16	25	Feb 17, 1947
Maximum peak flow			2,760	Apr 5	[b]155,000	Sep 23, 1945
Maximum peak stage			6.44	Apr 5	31.10	Sep 23, 1945
10 percent exceeds	1,100		694		1,290	
50 percent exceeds	698		669		553	
90 percent exceeds	647		643		490	

[a] Caused by repair work at spillway at Lake Marion.
[b] From rating curve extended above 13,000 cfs on basis of computation of peak flow over spillway at Lake Marion.