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 1987-2002 water years are computed by utilization of a One-Dimensional unsteady flow simulation model (BRANCH). Flow completely regulated by Lake Marion (see sta 02171000). Water is diverted above station from Lake Marion through Diversion Canal into Lake Moultrie (see sta 02172000) for generation of power and for navigation, then discharged into Cooper River Basin (see sta 02172002) and lower Santee (see sta 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 (see sta 02171520).

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	660	644	616	625	628	631	637	622	625	602	619	650
2	656	640	616	629	637	629	641	634	622	606	620	642
3	654	638	620	637	635	621	628	618	625	604	623	639
4	656	640	620	630	646	622	632	622	635	604	622	633
5	655	643	619	615	645	626	636	633	635	606	621	632
6	657	651	620	633	655	636	638	626	632	607	595	632
7	662	638	618	630	645	637	638	637	634	610	621	633
8	654	634	617	630	644	619	634	618	618	608	622	634
9	656	637	619	634	633	615	625	620	613	607	623	635
10	670	637	623	628	631	642	627	619	610	606	624	641
11	648	635	625	627	632	628	628	623	608	608	621	601
12	647	639	616	630	633	634	631	622	606	613	622	638
13	646	654	615	632	640	629	626	633	604	611	624	630
14	647	656	616	632	661	628	628	648	605	609	628	629
15	655	652	617	631	638	627	625	641	608	608	628	638
16	657	e615	620	633	631	633	623	661	607	607	628	636
17	666	e615	620	631	637	631	630	626	608	605	629	638
18	663	e615	625	629	624	632	632	635	611	606	632	628
19	657	e615	625	633	631	631	628	644	615	607	630	630
20	651	e615	626	633	633	632	625	633	621	608	629	633
21	652	e615	624	631	631	631	621	628	621	612	629	631
22	650	618	621	631	631	630	673	631	622	611	628	631
23	647	615	620	627	632	633	635	617	626	605	629	637
24	647	614	617	625	639	632	625	617	641	609	628	635
25	648	614	621	628	632	630	626	615	685	612	636	634
26	655	613	623	632	623	630	624	616	645	613	637	641
27	658	614	628	628	697	625	623	616	612	616	636	e602
28	663	614	623	627	635	624	642	619	601	615	636	e588
29	653	615	620	628	---	632	636	623	602	615	642	e598
30	650	616	623	629	---	633	620	625	601	611	642	e600
31	649	---	621	628	---	628	---	625	---	615	649	---
TOTAL	20289	18861	19234	19516	17879	19511	18937	19447	18598	18876	19453	18869
MEAN	654	629	620	630	639	629	631	627	620	609	628	629
MAX	670	656	628	637	697	642	673	661	685	616	649	650
MIN	646	613	615	615	623	615	620	615	601	602	595	588

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2002, BY WATER YEAR (WY)

MEAN	1941	837	1452	2592	4047	5404	4210	1291	974	706	826	1273
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

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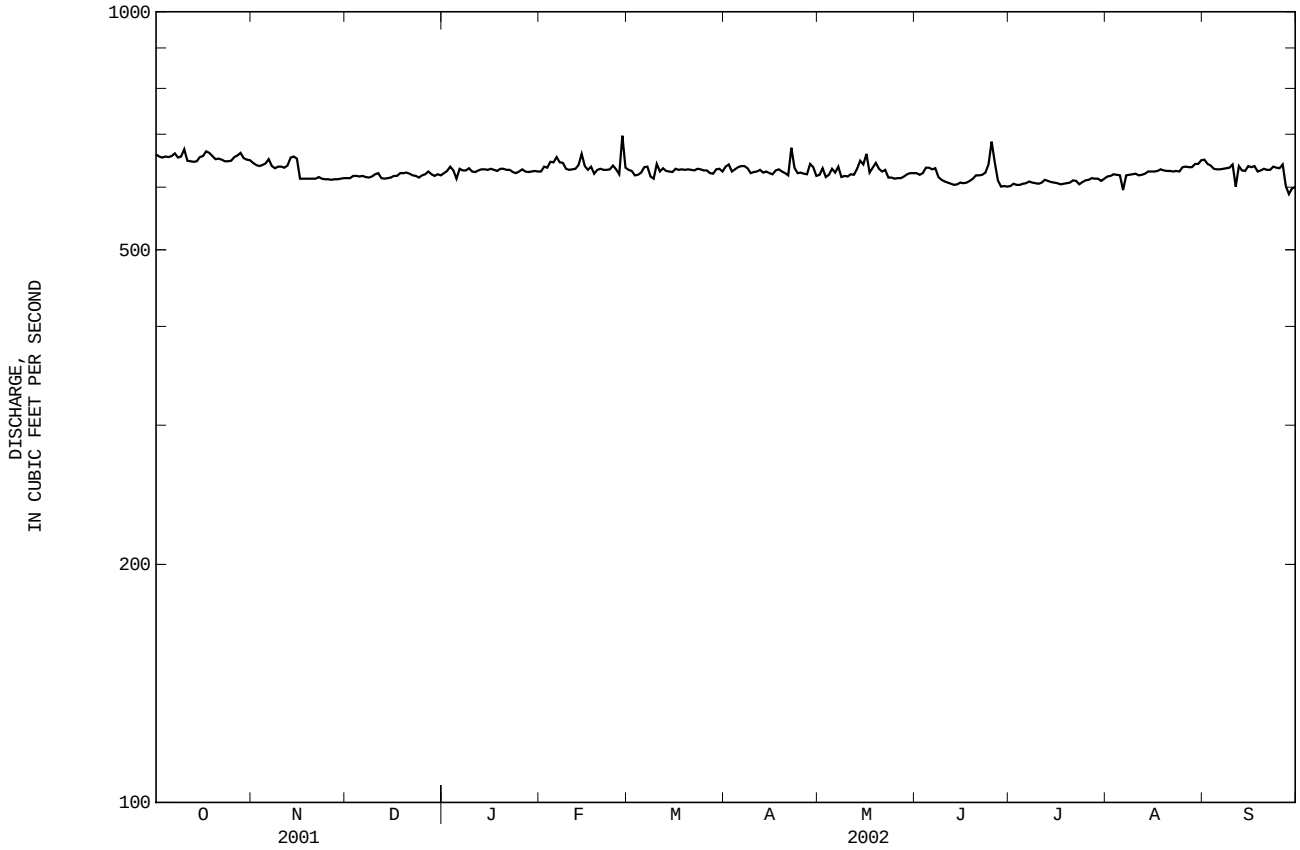
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1942 - 2002	
ANNUAL TOTAL	229026		229470			
ANNUAL MEAN	627		629		2118	
HIGHEST ANNUAL MEAN					7682	1960
LOWEST ANNUAL MEAN					491	1985
HIGHEST DAILY MEAN	1500	Apr 1	697	Feb 27	153000	Sep 22 1945
LOWEST DAILY MEAN	582	Mar 6	588	Sep 28	a 9	Feb 23 1947
ANNUAL SEVEN-DAY MINIMUM	589	Jun 28	603	Jun 28	25	Feb 17 1947
MAXIMUM PEAK FLOW					b 155000	Sep 23 1945
MAXIMUM PEAK STAGE			2.55	Sep 10	31.10	Sep 23 1945
10 PERCENT EXCEEDS	651		648		1500	
50 PERCENT EXCEEDS	619		628		545	
90 PERCENT EXCEEDS	598		610		487	

a Caused by repair work at spillway at Lake Marion.
b From rating curve extended above 13,000 ft^3/s on basis of computation of peak flow over spillway at Lake Marion.

e Estimated