

SANTEE RIVER BASIN

02148000 WATEREE RIVER NEAR CAMDEN, SC

LOCATION.--Lat 34°14'40"', long 80°39'15"', Kershaw County, Hydrologic Unit 03050104, in pier of downstream bridge on U.S. Highway 1, 1,500 ft downstream from Five and Twenty Creek, 4,000 ft upstream from Seaboard Coast Line Railroad bridge, 2.2 mi west of Camden, 7.4 mi downstream from Wateree Dam, and at mile 68.8.

DRAINAGE AREA.--5,070 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to December 1903 (gage heights only), October 1904 to September 1910, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site 1.5 mi downstream 1891-1934, at site 830 ft upstream January 1935 to September 1942, and at present site since October 1942, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 802: 1930. WSP 952: Drainage area. WSP 1082: 1934(M). WSP 1433: 1905-10. WSP 1623: 1930-51 (monthly and yearly runoff).

GAGE.--Data collection platform. Datum of gage is 118.36 ft above sea level. January 1903 to September 1910, nonrecording gage at site 1.5 mi downstream at datum 117.71 ft above mean sea level. October 1, 1929 to September 1, 1942, recording gage at site 830 ft upstream at datum 119.36 ft above sea level. October 1942 to September 30, 1997, recording gage at present site at datum 119.36 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by powerplants at Wateree Reservoir (usable capacity, 2,794,000,000 ft³).

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--The flood of July 18, 1916 reached a stage of 40.4 ft, datum 117.71 ft above mean sea level, at site 1.5 mi downstream, from records of National Weather Service, discharge, 400,000 ft³/s, from rating curve extended above 122,000 ft³/s, as explained in footnote below.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	1110	1830	1340	11800	4380	4610	3600	1830	1790	1700	1960
2	787	2070	2120	1670	9060	4130	4180	3700	1760	1600	1760	1850
3	671	2130	2300	1970	5170	5070	5820	3400	1410	1570	1710	1990
4	1720	2270	2370	1910	4510	3170	5150	3320	1660	1530	1730	2020
5	1580	1500	2170	1850	6500	2040	4660	3850	1670	1920	1860	1810
6	1210	1320	2560	4100	3780	3410	5320	3520	1600	1930	1820	1990
7	1310	1820	2320	3380	3720	2400	4980	3200	1640	1740	1860	1930
8	1550	1570	2560	2180	2660	1930	4350	4510	1930	1480	1310	1710
9	1300	1900	2680	2060	3370	3280	4810	5690	1410	1830	1580	1400
10	1020	1490	1560	3290	3890	4630	5400	3460	1270	1610	1570	1450
11	e2260	1820	1960	4800	2950	3050	5150	2920	2030	1240	1510	1750
12	e2990	2000	2460	5660	2870	2800	4790	2870	2210	1710	1820	1910
13	e2600	2420	1240	3360	8200	3870	5630	2740	1570	1620	1440	2480
14	2180	1890	2610	3860	12200	3000	4510	2710	1840	1600	1510	1660
15	3770	1830	3920	2690	13900	2640	3920	2700	1590	1510	1360	1830
16	5370	1930	3050	832	14000	4260	7450	2710	1660	1930	1720	1560
17	4240	1950	2530	2380	11800	4410	8140	2710	1680	1510	1400	1360
18	1520	1880	1580	3880	7900	4730	7630	2720	1600	1700	1510	1530
19	2150	2110	1900	4810	4180	4850	9110	3150	1800	1560	1650	1530
20	1750	2160	2530	2070	6800	7930	8830	2820	1510	1520	1530	1860
21	1980	2050	2810	3020	4190	15500	5390	2790	1830	1690	1350	1880
22	1890	1950	3240	2470	3950	15600	3270	2690	1540	1100	1500	6440
23	1800	1900	2890	2730	3870	10900	3220	2670	1900	1830	1420	6740
24	1840	1920	2350	5770	6300	8700	4170	2680	1280	1490	1480	4050
25	1740	2020	1840	9930	5150	7540	4670	2690	1770	2230	1570	6790
26	1850	2190	1990	12000	2160	7870	4760	2690	1620	1700	1770	5720
27	1550	2350	2530	12200	1840	8070	4900	2680	1800	1920	1480	5110
28	2030	2190	2100	9780	1940	8220	5740	2710	1550	1490	1440	3250
29	1850	1980	1500	2870	6480	7730	4180	2720	1640	1450	1460	1460
30	1880	1690	2110	4420	---	8320	3080	2040	1500	1370	1660	1810
31	1580	---	1470	10300	---	8690	---	1430	---	1830	1560	---
TOTAL	61558	57410	71080	133582	175140	183120	157820	94090	50100	51000	49040	78830
MEAN	1986	1914	2293	4309	6039	5907	5261	3035	1670	1645	1582	2628
MAX	5370	2420	3920	12200	14000	15600	9110	5690	2210	2230	1860	6790
MIN	671	1110	1240	832	1840	1930	3080	1430	1270	1100	1310	1360
CFSM	.39	.38	.45	.85	1.19	1.17	1.04	.60	.33	.32	.31	.52
IN.	.45	.42	.52	.98	1.29	1.34	1.16	.69	.37	.37	.36	.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	4837	4936	5821	8637	9193	9597	8238	5556	4715	4200	4467	4093
MAX	19080	15370	14000	18530	23270	21700	28750	13200	12380	14980	12720	20430
(WY)	1965	1978	1984	1937	1960	1952	1936	1958	1973	1941	1967	1945
MIN	1095	992	1647	1803	2484	2941	1701	1022	997	656	1460	1033
(WY)	1955	1932	1956	1942	1977	1988	1986	1986	1988	1956	1954	1954

SUMMARY STATISTICS	02148000 WATeree RIVER NEAR CAMDEN, SC--Continued		WATER YEARS 1930 - 2000	
	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR		
ANNUAL TOTAL	1184797	1162770		
ANNUAL MEAN	3246	3177	6176	
HIGHEST ANNUAL MEAN			9964	1960
LOWEST ANNUAL MEAN			3177	2000
HIGHEST DAILY MEAN	16900	Jan 25	15600	Mar 22
LOWEST DAILY MEAN	640	Sep 25	671	Oct 3
ANNUAL SEVEN-DAY MINIMUM	1240	Sep 19	1260	Oct 2
INSTANTANEOUS PEAK FLOW			16400	Mar 22
INSTANTANEOUS PEAK STAGE			15.96	Mar 22
ANNUAL RUNOFF (CFSM)	.64		.63	
ANNUAL RUNOFF (INCHES)	8.69		8.53	
10 PERCENT EXCEEDS	7110		6340	13000
50 PERCENT EXCEEDS	2310		2110	4910
90 PERCENT EXCEEDS	1390		1490	1110

a Site and datum then in use, from records of National Weather Service, from rating curve extended above 122,000 ft³/s, on basis of computations, by Duke Energy Corporation, of peak flow of 382,000 ft³/s over dam at Rocky Creek Reservoir.

e Estimated

