

Water-Data Report 2011

02148000 WATEREE RIVER NEAR CAMDEN, SC

Santee Basin
Wateree Subbasin

LOCATION.--Lat 34°14'40", long 80°39'15" referenced to North American Datum of 1927, Kershaw County, SC, Hydrologic Unit 03050104, on downstream side of 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 river mile 68.8.

DRAINAGE AREA.--5,070 mi².

SURFACE-WATER 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 and acoustic velocity meter. Datum of gage is 115.36 ft above NGVD of 1929. January 1903 to September 1910, nonrecording gage at site 1.5 mi downstream at datum 117.71 ft above NGVD of 1929. October 1, 1929 to September 1, 1942, recording gage at site 830 ft upstream at datum 119.36 ft above NGVD of 1929. October 1942 to September 30, 1997, recording gage at present site at datum 119.36 ft above NGVD of 1929. October 1, 1997 to September 30, 2003, recording gage at present site at datum 118.36 ft above NGVD of 1929.

REMARKS.--Records good. Flow regulated by powerplant at Wateree Reservoir (usable capacity, 2,794,000,000 ft³).

EXTREMES 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.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,830	966	2,330	2,020	4,120	1,800	4,930	3,080	4,810	2,550	4,290	1,610
2	2,270	923	1,980	1,730	2,410	2,490	3,410	4,680	3,160	2,830	4,530	1,880
3	2,230	1,140	1,420	2,410	1,850	4,830	3,390	3,980	2,560	2,400	2,480	2,240
4	1,170	1,410	1,320	2,190	1,770	4,910	3,600	3,920	1,650	2,320	1,930	2,610
5	1,010	1,820	1,080	2,380	5,610	3,980	5,020	3,210	1,520	2,020	3,240	3,470
6	926	1,690	2,990	2,070	8,500	3,290	5,100	2,160	1,710	1,880	10,900	1,740
7	1,070	1,650	2,750	1,630	6,990	6,720	4,910	2,180	1,740	3,250	3,760	950
8	928	1,510	2,970	1,380	5,980	8,270	3,200	2,810	1,640	2,630	2,370	896
9	1,130	1,430	3,080	1,740	5,530	11,300	2,310	2,340	1,670	3,550	2,180	893
10	1,160	1,210	2,800	3,740	3,680	11,400	8,090	1,800	1,680	2,870	2,430	1,100
11	1,250	1,040	2,490	3,850	3,460	11,300	5,890	2,270	1,590	2,520	2,210	1,080
12	1,140	1,180	1,480	3,690	1,480	10,100	4,570	2,680	1,670	2,570	2,030	895
13	972	1,000	3,950	3,530	1,120	7,910	4,330	3,230	2,220	2,730	2,200	945
14	944	917	4,470	3,540	1,680	6,610	4,250	3,220	2,080	2,200	4,590	917
15	946	918	4,260	2,990	1,820	8,210	4,730	3,300	1,640	2,120	3,810	904
16	1,160	919	5,380	2,110	1,600	7,800	2,150	2,810	1,620	1,750	2,920	851
17	1,180	1,600	3,480	2,580	1,620	7,560	1,760	2,660	1,650	1,680	2,180	1,030
18	952	2,130	1,410	2,940	1,620	5,750	4,350	5,300	2,090	1,750	2,020	1,080
19	1,150	1,870	1,050	3,390	1,610	4,500	4,890	4,650	1,620	1,950	2,140	907
20	1,260	1,880	2,790	3,510	1,590	5,370	4,850	2,640	2,200	2,150	2,010	1,230
21	955	967	2,950	2,630	1,570	4,690	4,800	2,510	2,800	2,120	1,940	1,720
22	1,220	1,480	3,000	1,630	1,590	3,910	4,510	2,550	2,270	2,090	2,120	1,720
23	1,160	1,190	2,970	1,430	1,550	5,900	2,320	2,510	2,070	1,900	1,920	1,820
24	1,200	1,830	1,210	3,460	1,560	3,790	1,980	2,950	1,290	1,750	1,710	7,420
25	1,190	1,480	938	3,740	1,580	4,260	1,660	2,110	1,460	1,890	1,670	6,150
26	1,080	1,230	920	3,620	1,550	2,090	4,330	1,890	1,460	2,700	1,860	3,180
27	1,880	1,580	4,110	3,390	1,540	4,370	5,000	1,350	1,150	2,260	1,190	2,860
28	2,480	1,960	4,780	2,550	1,620	4,800	5,050	3,780	1,160	2,780	1,120	2,390
29	2,300	4,300	3,580	1,830	---	8,600	4,390	2,850	1,630	2,690	1,140	1,730
30	1,390	3,810	3,540	1,910	---	6,260	3,160	2,750	2,020	2,370	1,120	1,780
31	1,260	---	2,520	3,720	---	9,710	---	4,900	---	2,250	1,120	---
Max	2,480	4,300	5,380	3,850	8,500	11,400	8,090	5,300	4,810	3,550	10,900	7,420
Min	926	917	920	1,380	1,120	1,800	1,660	1,350	1,150	1,680	1,120	851

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Max (WY)	19,080 (1965)	15,370 (1978)	13,830 (1977)	18,530 (1937)	23,270 (1960)	21,700 (1952)	28,750 (1936)	13,280 (2003)	13,040 (2003)	14,980 (1941)	12,720 (1967)	20,430 (1945)
Min (WY)	1,095 (1955)	992 (1932)	1,056 (2002)	1,803 (1942)	1,393 (2009)	2,225 (2006)	1,679 (1986)	1,059 (1986)	1,129 (1941)	656 (1956)	1,456 (2002)	1,033 (1954)

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SUMMARY STATISTICS

	Water Year 2011		Water Years 1930 - 2011	
Highest daily mean	11,400	Mar 10	149,000	Oct 3, 1929
Lowest daily mean	851	Sep 16	143	Sep 28, 1980
Annual seven-day minimum	946	Sep 11	279	Jul 1, 1959
Maximum peak flow	16,300	Aug 6	^a 366,000	Aug 26, 1908
Maximum peak stage	16.16	Sep 24	39.70	Aug 26, 1908

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

