

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 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.—No estimated daily discharges. 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 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,070	805	5,410	1,030	1,780	10,600	9,580	2,560	11,100	1,370	2,270	1,600
2	984	768	6,010	1,650	1,760	15,200	8,900	1,930	11,000	1,290	2,340	1,560
3	949	911	4,180	2,210	1,050	16,700	9,450	1,800	10,800	1,480	1,900	1,590
4	900	1,010	3,620	5,030	2,290	16,700	4,620	2,600	7,330	1,430	1,680	1,570
5	965	1,150	2,960	5,720	2,000	16,500	1,930	2,890	9,830	1,460	1,630	1,480
6	922	1,300	1,960	9,090	1,320	15,400	4,260	5,050	9,700	1,110	1,600	1,570
7	908	1,300	2,530	13,400	1,090	10,000	5,380	7,040	11,900	1,280	1,580	1,510
8	914	1,060	3,430	7,450	1,120	5,950	5,930	5,070	13,600	1,160	1,550	1,190
9	991	805	2,120	9,910	1,130	5,660	3,620	3,590	11,800	1,310	1,540	1,190
10	934	923	2,940	7,320	1,160	5,720	1,880	2,480	11,200	2,530	2,050	1,030
11	927	1,090	9,040	4,560	1,160	5,570	3,740	3,580	10,700	2,020	1,820	1,030
12	914	936	14,700	7,120	1,160	5,040	8,490	4,420	10,500	1,810	1,520	1,390
13	1,070	1,060	14,200	7,170	1,120	4,890	11,200	4,090	6,130	1,470	1,410	1,390
14	1,160	1,440	13,400	7,300	1,060	2,960	7,200	4,890	5,980	1,460	1,650	1,040
15	1,220	2,170	10,200	6,000	1,110	3,720	8,330	5,870	6,400	1,570	2,000	1,040
16	1,050	2,270	7,540	6,900	1,280	2,780	8,210	4,160	5,470	1,750	2,150	1,050
17	1,600	2,680	11,800	6,960	1,130	4,010	9,090	4,480	5,680	1,650	2,850	1,130
18	1,140	1,960	9,560	4,400	1,150	5,090	2,520	4,620	6,160	1,640	2,400	1,570
19	1,330	2,710	7,200	4,240	1,070	5,960	1,900	3,880	7,240	1,450	2,120	1,670
20	1,990	2,500	7,790	4,210	1,980	6,060	3,370	2,170	6,250	1,050	1,720	3,000
21	1,950	1,870	6,910	4,170	1,750	3,350	3,420	1,970	4,680	1,540	1,900	3,410
22	1,670	3,720	10,100	3,480	1,090	2,310	3,180	1,890	4,250	1,840	1,780	2,110
23	1,440	1,580	6,950	3,350	1,350	3,870	3,410	1,850	2,790	2,010	1,630	1,750
24	1,420	2,980	4,470	2,480	1,430	4,610	3,560	1,970	2,550	2,500	1,730	1,780
25	951	2,700	4,430	2,780	1,610	6,840	3,810	1,780	2,860	2,130	1,640	1,540
26	991	4,050	3,790	3,670	1,500	8,090	3,660	6,430	2,750	1,990	1,870	1,660
27	1,050	1,690	4,030	2,370	1,430	4,830	3,590	10,400	2,210	2,630	1,590	1,610
28	1,250	2,150	3,860	1,850	1,920	4,100	2,600	10,300	2,080	2,280	1,580	1,330
29	1,350	1,550	3,290	2,720	---	11,500	2,750	13,900	2,070	4,240	1,570	1,060
30	1,330	2,110	4,150	2,310	---	14,000	2,990	12,100	1,430	3,490	1,570	1,020
31	1,100	---	4,010	2,230	---	14,000	---	12,600	---	2,100	1,560	---
Total	36,440	53,248	196,580	153,080	39,000	242,010	152,570	152,360	206,440	57,040	56,200	45,870
Mean	1,175	1,775	6,341	4,938	1,393	7,807	5,086	4,915	6,881	1,840	1,813	1,529
Max	1,990	4,050	14,700	13,400	2,290	16,700	11,200	13,900	13,600	4,240	2,850	3,410
Min	900	768	1,960	1,030	1,050	2,310	1,880	1,780	1,430	1,050	1,410	1,020
Cfsm	0.23	0.35	1.25	0.97	0.27	1.54	1.00	0.97	1.36	0.36	0.36	0.30
In.	0.27	0.39	1.44	1.12	0.29	1.78	1.12	1.12	1.51	0.42	0.41	0.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,603	4,795	5,600	8,124	8,562	9,190	7,904	5,271	4,710	4,123	4,391	4,054
Max	19,080	15,370	13,830	18,530	23,270	21,700	28,750	13,280	13,040	14,980	12,720	20,430
(WY)	(1965)	(1978)	(1977)	(1937)	(1960)	(1952)	(1936)	(2003)	(2003)	(1941)	(1967)	(1945)
Min	1,095	992	1,056	1,803	1,393	2,225	1,679	1,059	1,129	656	1,456	1,033
(WY)	(1955)	(1932)	(2002)	(1942)	(2009)	(2006)	(1986)	(1986)	(1941)	(1956)	(2002)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1930 - 2009	
Annual total	940,010		1,390,838			
Annual mean	2,568		3,811		5,997	
Highest annual mean					9,964	1960
Lowest annual mean					1,852	2002
Highest daily mean	16,100	Aug 31 ^a	16,700	Mar 3	149,000	Oct 3, 1929
Lowest daily mean	583	Mar 4	768	Nov 2	143	Sep 28, 1980
Annual seven-day minimum	827	Jul 20	930	Oct 6	279	Jul 1, 1959
Maximum peak flow			19,200	Mar 3	^c 366,000	Aug 26, 1908
Maximum peak stage			21.15	Mar 3 ^b	39.70	Aug 26, 1908
Annual runoff (cfsm)	0.507		0.752		1.18	
Annual runoff (inches)	6.90		10.20		16.07	
10 percent exceeds	5,690		9,570		12,800	
50 percent exceeds	1,330		2,270		4,700	
90 percent exceeds	939		1,070		1,160	

^a Also occurred Sep. 1.

^b Also occurred Mar. 4.

^c 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.

