

SANTÉE RIVER BASIN

02146000 CATAWBA RIVER NEAR ROCK HILL, SC

LOCATION.--Lat 34°59'05'', long 80°58'27'', York County, Hydrologic Unit 03050103, on right bank, at downstream side of bridge on U.S. Highway 21, 3.5 mi downstream from Lake Wylie Dam, 5.0 mi northeast of Rock Hill, 7.5 mi upstream from Sugar Creek, and at mile 137.6.

DRAINAGE AREA.--3,050 mi², approximately.

PERIOD OF RECORD.--October 1895 to September 1902, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1303: 1895-1903, WSP 1333: 1942-43(M), 1953(M). WSP 1623: 1942-51 (yearly runoff).

GAGE.--Data collection platform. Datum of gage is 485.82 ft above NGVD of 1929. Sept. 23, 1895, to July 31, 1903, nonrecording gage at Southern Railway bridge, 2.0 mi downstream, at different datum.

REMARKS.--Records poor. Flow regulated by Lake Wylie (usable capacity, 2,520,500,000 ft³).

Discharge, cubic feet per second
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	756	640	1370	1780	606	8970	7990	8110	5500	5820	3840	1390
2	809	651	1640	5900	1070	8100	8090	8600	6480	5250	4440	2130
3	817	656	1540	6870	1330	7130	9500	6390	7860	4540	3680	6410
4	757	658	2150	5260	2260	5320	12700	7240	10300	6960	5610	4540
5	728	630	1300	4800	2250	5930	3950	6230	13200	4580	7550	4980
6	731	382	1580	6570	2670	3230	4210	7350	12400	3910	6060	1150
7	735	409	3530	5780	1280	3390	5470	4120	7860	7780	5440	1860
8	717	654	2310	4010	1310	8530	8180	12400	9520	9060	7950	2790
9	740	651	2700	4230	1540	8780	4700	8300	14800	9430	5660	3510
10	726	615	2710	2130	1810	8630	32000	9110	14000	7730	7590	4060
11	695	581	2630	1390	2500	8370	28500	9540	13700	5630	6980	3940
12	e416	569	4780	1830	5330	8040	22600	7920	11700	5050	8710	4190
13	659	e2080	4570	1830	2390	7680	20300	7980	11900	4910	10600	4990
14	e266	6990	2700	1790	4060	5570	17700	3430	10200	7470	10400	3940
15	661	4970	9280	2780	1860	4000	14300	8470	10700	9580	9890	2970
16	473	565	4700	1870	837	4560	13400	8040	10100	10200	11600	2780
17	368	841	6220	2280	2080	7870	13600	6330	9820	9290	11100	3000
18	543	1350	6760	2430	2490	4830	10800	6110	10900	8540	9190	3260
19	678	1040	5740	821	1470	8090	18400	5400	11600	7510	10000	2340
20	677	2150	5080	1720	3810	13000	21900	4200	11000	5990	9770	2400
21	667	1780	5350	2020	3210	35700	16400	4820	10500	6780	10200	2100
22	673	1830	4710	1030	1200	22900	15200	20100	8690	8050	10300	1870
23	605	1420	6410	1730	2690	13800	14900	33700	8910	4650	7650	2980
24	685	1850	1730	2200	8180	13700	14900	17000	9130	2970	5670	3160
25	716	3010	5370	842	5790	13700	5150	13200	8000	3820	4480	6710
26	659	1930	6570	760	5980	10500	7210	16300	4690	6420	5870	2990
27	655	2980	11100	2510	8450	9480	9400	14900	4290	4810	6550	2100
28	771	1970	7580	1380	6840	10200	8990	14300	2640	3740	6360	2320
29	744	1850	8360	1410	---	8870	8750	12300	3430	3940	4410	2280
30	550	860	9640	1580	---	e8350	7940	9520	7800	3680	2730	2680
31	e525	---	7090	1990	---	8880	---	13600	---	5040	2130	---
TOTAL	20202	46562	147200	83523	85293	296100	387130	315010	281620	193130	222410	95820
MEAN	652	1552	4748	2694	3046	9552	12900	10160	9387	6230	7175	3194
MAX	817	6990	11100	6870	8450	35700	32000	33700	14800	10200	11600	6710
MIN	266	382	1300	760	606	3230	3950	3430	2640	2970	2130	1150
CFSM	0.21	0.51	1.56	0.88	1.00	3.13	4.23	3.33	3.08	2.04	2.35	1.05
IN.	0.25	0.57	1.80	1.02	1.04	3.61	4.72	3.84	3.43	2.36	2.71	1.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2003, BY WATER YEAR (WY)

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	3337	3448	4097	5174	5823	6172	5564	4296	3892	3246	3431	2965																																																																																																
MAX	10680	12400	14270	10630	14950	19510	15970	15360	10120	10340	22230	9768																																																																																																
(WY)	1899	1978	1902	1946	1899	1899	1901	1901	1901	1896	1901	1945																																																																																																
MIN	652	705	583	741	886	1119	1211	910	999	933	989	743																																																																																																
(WY)	2003	2002	2002	2002	2002	2002	1985	1986	2002	1986	2001	2001																																																																																																

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1896 - 2003	
ANNUAL TOTAL	493430		2174000		4280	
ANNUAL MEAN	1352		5956		9635	
HIGHEST ANNUAL MEAN					1901	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	11100	Dec 27	35700	Mar 21	127000	May 23 1901
LOWEST DAILY MEAN	e 132	Jan 7	266	Oct 14	e 132	Jan 7 2002
ANNUAL SEVEN-DAY MINIMUM	474	Jan 18	484	Oct 12	474	Jan 18 2002
MAXIMUM PEAK FLOW			50300	Apr 10	a 151000	May 23 1901
MAXIMUM PEAK STAGE			15.17	Apr 10	a 24.15	May 23 1901
ANNUAL RUNOFF (CFSM)	0.44		1.95		1.40	
ANNUAL RUNOFF (INCHES)	6.02		26.52		19.07	
10 PERCENT EXCEEDS	2110		12100		8610	
50 PERCENT EXCEEDS	989		4830		3410	
90 PERCENT EXCEEDS	606		730		880	

a At site and datum then in use.

e Estimated

