

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.--No estimated daily discharges. Records good. Flow regulated by Lake Wylie (usable capacity, 2,520,500,000 ft³).

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	2130	4070	3900	2150	2360	1560	2990	2270	4620	1430	1130
2	3690	2140	4670	3400	1160	2290	2080	1610	2160	2740	1310	4080
3	2400	1230	5720	3780	1450	2090	2040	3180	2360	2030	3240	3020
4	840	1130	5130	3740	4610	2640	2100	2290	1610	2140	4970	2130
5	946	1670	6740	3290	3080	2460	1440	2030	1420	2240	1340	3510
6	2260	2460	4240	4290	3370	2330	2610	1510	1740	2480	1250	2530
7	3380	2460	3510	6610	3710	2070	824	1740	1320	5400	1630	3710
8	2420	2440	2730	5180	6230	3070	1570	1820	1720	6180	1380	10000
9	2780	2430	1240	5570	3890	2640	1670	1500	1400	5090	4730	17300
10	3220	2450	2140	3780	4020	2050	1250	2290	1540	1750	4750	47200
11	1130	2470	3390	3410	3680	2530	895	2560	1430	1080	1980	29200
12	1360	2450	3720	3930	5300	1550	1540	2530	1420	2390	1290	27200
13	3250	2380	3740	3540	3950	3210	2710	2550	1340	3080	3000	24600
14	3370	2450	3800	4090	2020	2780	4660	1400	1230	3070	1770	21700
15	2710	2480	3700	1640	711	1970	2960	2150	1790	1630	1480	19900
16	2540	2460	3590	4350	1030	2690	2470	1000	1330	2730	2010	18500
17	3540	2440	2480	4310	1290	3030	2600	646	1890	1730	2090	11000
18	1670	2670	1600	3040	1900	3440	1850	1510	1240	1620	1970	6280
19	1260	3540	4080	4530	2240	1430	3230	2000	1350	2190	4560	1860
20	3370	2790	7460	5020	3450	2000	2900	2690	1440	3020	2680	8250
21	2870	3400	5660	4220	1450	1790	2010	1950	1290	2830	2740	5500
22	3490	7030	5960	3500	1320	2110	2140	1700	1810	1430	1230	6900
23	2690	7430	6430	3100	1580	1890	2010	1560	2660	3040	2840	7520
24	3810	6830	3970	2260	1640	2230	2990	1850	6860	1830	309	6230
25	1770	6850	5640	1540	3910	1920	1780	1430	7370	1670	996	10300
26	3250	5260	5380	4960	4510	2800	2380	1770	6610	1680	4940	9060
27	2980	4400	4220	4870	4140	1280	1470	1120	5450	1820	5570	3060
28	5430	4220	3130	3240	5160	1250	2660	1080	2070	2080	1710	2650
29	3770	5150	7340	4390	2880	1920	3390	1110	4050	1080	983	4260
30	1460	3850	5710	7060	---	1870	2640	1090	5300	4850	1410	10900
31	412	---	5760	4880	---	1920	---	1460	---	1850	1430	---
TOTAL	79718	101090	136950	125420	85831	69610	66429	56116	75470	81370	73018	329480
MEAN	2572	3370	4418	4046	2960	2245	2214	1810	2516	2625	2355	10980
MAX	5430	7430	7460	7060	6230	3440	4660	3180	7370	6180	5570	47200
MIN	412	1130	1240	1540	711	1250	824	646	1230	1080	309	1130
CFSM	0.84	1.10	1.45	1.33	0.97	0.74	0.73	0.59	0.82	0.86	0.77	3.60
IN.	0.97	1.23	1.67	1.53	1.05	0.85	0.81	0.68	0.92	0.99	0.89	4.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2004, 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	2004
MEAN	3325	3447	4102	5158	5781	6115	5516	4261	3872	3237	3415	3080																																																																																																	
MAX	10680	12400	14270	10630	14950	19510	15970	15360	10120	10340	22230	10980																																																																																																	
(WY)	1899	1978	1902	1946	1899	1899	1901	1901	1901	1896	1901	2004																																																																																																	
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1896 - 2004	
ANNUAL TOTAL	2277794		1280502		4269	
ANNUAL MEAN	6241		3499		9635	
HIGHEST ANNUAL MEAN					1901	
LOWEST ANNUAL MEAN					932	
HIGHEST DAILY MEAN	35700	Mar 21	47200	Sep 10	127000	May 23 1901
LOWEST DAILY MEAN	412	Oct 31	309	Aug 24	e 132	Jan 7 2002
ANNUAL SEVEN-DAY MINIMUM	1340	Jan 28	1290	May 25	474	Jan 18 2002
MAXIMUM PEAK FLOW			54400		151000	
MAXIMUM PEAK STAGE			15.90		a 24.15	
ANNUAL RUNOFF (CFSM)	2.05		1.15		1.40	
ANNUAL RUNOFF (INCHES)	27.78		15.62		19.02	
10 PERCENT EXCEEDS	12100		5710		8600	
50 PERCENT EXCEEDS	4990		2540		3400	
90 PERCENT EXCEEDS	1780		1320		886	

a At site and datum then in use.

e Estimated

