

## SANTÉE RIVER BASIN

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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 mi<sup>2</sup>, 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 good except for estimated daily discharges, which are poor. Flow regulated by Lake Wylie (usable capacity, 2,520,500,000 ft<sup>3</sup>).

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10400	5010	6510	9080	4990	5120	13400	2200	1300	4950	3740	4430
2	10000	2900	6630	6760	2650	4450	12500	4180	911	3420	3640	2730
3	8210	1310	7180	6650	2910	5060	9090	2060	566	3030	4900	2860
4	2340	3790	2920	4920	2550	5880	5910	2170	1760	4110	3960	2230
5	4760	4770	2040	6180	3460	5040	4680	2420	4260	7230	2090	1830
6	4920	2670	7240	6420	4810	2040	5540	2290	2130	6530	1630	2390
7	5350	2100	6940	5150	2940	3750	5350	1620	3050	7610	1690	1840
8	3850	3240	6780	3210	3680	3270	6340	3000	2300	8170	2500	1700
9	6030	3740	2830	3020	3510	4430	7920	3520	2110	8280	2620	1670
10	7230	3930	8430	5300	3090	4190	5030	2810	6890	10100	2320	1570
11	6170	4650	10600	7060	3290	4940	6510	3780	6630	10000	5730	1680
12	4530	5100	9060	6560	2650	2410	3590	3020	3100	8610	4340	2010
13	8900	2160	8230	2560	2380	2260	4620	1670	5340	7480	3780	2680
14	1770	4470	8830	5860	2310	2630	5970	1920	6020	8750	2030	1910
15	4490	3200	6250	4670	2410	3190	8070	2850	3900	8760	3320	1780
16	4880	3270	7440	5270	1440	4370	7220	3000	6610	4800	4480	2530
17	4110	3640	8010	6780	1640	3730	4130	1550	6750	5920	2310	1010
18	4860	6330	8280	8040	1580	3930	5830	1500	3670	6320	5810	1290
19	5300	6620	8000	8510	1690	3130	6050	1020	2230	4800	5430	859
20	2020	3650	7720	7850	1300	2900	5710	1310	1780	3330	4960	753
21	3900	2380	8350	6230	1510	4850	4240	1250	2270	e6780	5640	1230
22	5410	3790	5700	3590	1760	4450	4180	1970	2720	e2640	5220	1090
23	3960	3860	4940	6600	2080	3610	3180	4810	3270	1650	3620	1100
24	4740	6550	6710	4960	2430	3450	2600	3440	2320	e2650	6330	1040
25	4290	5420	6860	3340	1840	3430	3000	2130	2580	4520	7030	1040
26	3250	4850	6640	2440	2520	4440	5010	1310	2510	3790	7660	1060
27	3170	5590	8820	3480	2290	2300	4060	1930	2240	5620	6740	1050
28	3880	4340	6430	5180	5000	6390	4970	1310	3280	4150	3690	1050
29	2970	4800	8120	2170	---	4940	4600	1300	3380	3070	5280	1050
30	3560	4370	9540	1840	---	9590	3210	1330	5670	3980	3690	1050
31	2610	---	7830	3160	---	9090	---	1080	---	2640	4320	---
TOTAL	151860	122500	219860	162840	74710	133260	172510	69750	101547	173690	130500	50512
MEAN	4899	4083	7092	5253	2668	4299	5750	2250	3385	5603	4210	1684
MAX	10400	6620	10600	9080	5000	9590	13400	4810	6890	10100	7660	4430
MIN	1770	1310	2040	1840	1300	2040	2600	1020	566	1650	1630	753
CFSM	1.61	1.34	2.33	1.72	0.87	1.41	1.89	0.74	1.11	1.84	1.38	0.55
IN.	1.85	1.49	2.68	1.99	0.91	1.63	2.10	0.85	1.24	2.12	1.59	0.62

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2005, BY WATER YEAR (WY)

	MEAN	3348	3456	4144	5159	5736	6090	5519	4232	3866	3271	3426	3060
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1896 - 2005	
ANNUAL TOTAL	1456964		1563539		4269	
ANNUAL MEAN	3981		4284		9635	
HIGHEST ANNUAL MEAN					1901	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	47200	Sep 10	13400	Apr 1	127000	May 23 1901
LOWEST DAILY MEAN	309	Aug 24	566	Jun 3	e 132	Jan 7 2002
ANNUAL SEVEN-DAY MINIMUM	1290	May 25	1020	Sep 19	474	Jan 18 2002
MAXIMUM PEAK FLOW			15300	a Dec 17	c 151000	May 23 1901
MAXIMUM PEAK STAGE			7.95	b Jan 15	c 24.15	May 23 1901
ANNUAL RUNOFF (CFSM)	1.31		1.40		1.40	
ANNUAL RUNOFF (INCHES)	17.77		19.07		19.02	
10 PERCENT EXCEEDS	7230		7680		8580	
50 PERCENT EXCEEDS	2900		3850		3410	
90 PERCENT EXCEEDS	1390		1650		890	

a Also occurred Jan. 15, Apr. 2.  
 b Also occurred Apr. 2.  
 c At site and datum then in use.

e Estimated

