

SANTÉE RIVER BASIN

02169500 CONGAREE RIVER AT COLUMBIA, SC

LOCATION.--Lat 33°59'35'', long 81°03'00'', Lexington County, Hydrologic Unit 03050110, on right bank at Columbia, 1,000 ft downstream from Gervais Street Bridge, 1.4 mi downstream from confluence of Broad and Saluda Rivers, and at mile 174.8.

DRAINAGE AREA.--7,850 mi², approximately.

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 1,000 ft upstream October 1891 to December 1933 and at present site since January 1934 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder and data collection platform. Datum of gage is 113.02 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Lake Murray (see sta 02168500) on the Saluda River and to some extent, at low and medium flow, by powerplants on the Broad River. Water diverted above station for municipal supply during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since October 1891, about 364,000 ft³/s, Aug. 27, 1908, from rating curve extended logarithmically above 150,000 ft³/s; gage height, 39.8 ft, present datum, based on floodmarks from records of the U.S. Weather Bureau at site 1,000 ft upstream and at datum 4.0 ft higher.

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	18500	3950	5900	8590	6360	15900	31500	6700	11100	15600	7850	6930
2	12800	3700	6120	7540	6990	24400	26800	6860	25400	13500	8100	7880
3	10200	3660	6960	7700	8380	10100	15000	5870	34100	10400	e6420	7660
4	11600	3640	6970	6440	9320	7380	14400	5810	31200	13900	e5920	8040
5	e7920	9130	7020	5510	9360	8800	12900	5110	21200	9200	4660	7820
6	e8190	12800	6730	6740	9310	7510	11100	4740	7310	10400	5160	7610
7	5270	7730	6520	7060	8990	8920	11200	8390	e6520	14700	4820	5530
8	5030	7960	6600	6340	9060	9950	12800	4690	e5910	18500	3860	4870
9	4600	5420	7590	6290	8700	11400	14400	5000	8480	31000	5220	3420
10	4710	5520	7490	6210	7180	12100	16600	4210	8320	31000	5970	2890
11	6220	5320	22000	4650	7360	8330	12600	4230	8930	22100	8390	2480
12	4280	4710	30300	4690	6610	8040	10700	5100	7570	9970	7870	2240
13	4200	4190	19500	6550	6430	7300	17900	4760	11400	8850	7040	2730
14	4920	6160	16500	8220	4870	6500	19900	4640	7110	8500	6320	2380
15	4920	9380	14400	15200	5930	6160	19200	4090	5500	13400	5690	2160
16	4700	6880	9930	14900	5520	6960	17700	5450	5680	17000	5530	1700
17	4660	6050	8500	12900	5630	11100	10400	4460	5930	9340	5460	2150
18	4550	5750	7730	10400	6790	14000	6750	4060	4670	8570	5200	2600
19	4200	7050	7370	8490	5730	9180	7590	5030	4570	10100	6640	2630
20	3090	6390	13700	8670	5310	7780	10400	7600	4700	10300	6050	2490
21	4740	6440	8870	6190	5710	6740	8520	6960	4170	9850	5460	1610
22	4560	5620	5980	6560	8900	6770	6690	5590	5870	5530	6480	1740
23	3560	8240	6190	8380	10900	7590	7810	8270	6110	6050	6200	1800
24	3600	6870	6410	11400	10700	7020	6880	7740	5470	4240	4910	2600
25	5000	7150	8270	5260	13300	13000	8270	4840	4990	5420	7070	2110
26	2900	7260	14800	4730	7120	9090	8140	4010	5020	5590	8250	2110
27	4720	8630	12000	4760	6480	9790	8880	3960	4950	4410	6870	2380
28	3950	7060	6130	5860	14500	22000	8020	4090	6790	e5140	4450	1970
29	3480	7710	8220	4990	---	48600	6690	3940	14500	e5490	5110	1850
30	3900	9410	8760	4780	---	51700	6720	8560	16900	5710	4730	1620
31	4270	---	8750	6010	---	45200	---	7820	---	6600	6530	---
TOTAL	179240	199780	312210	232010	221440	429310	376460	172580	300370	350360	188230	106000
MEAN	5782	6659	10070	7484	7909	13850	12550	5567	10010	11300	6072	3533
MAX	18500	12800	30300	15200	14500	51700	31500	8560	34100	31000	8390	8040
MIN	2900	3640	5900	4650	4870	6160	6690	3940	4170	4240	3860	1610
CFSM	0.74	0.85	1.28	0.95	1.01	1.76	1.60	0.71	1.28	1.44	0.77	0.45
IN.	0.85	0.95	1.48	1.10	1.05	2.03	1.78	0.82	1.42	1.66	0.89	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	7055	7040	8682	11570	12910	14270	11490	7908	7033	6640	7006	6312
MAX	33460	18960	21660	28430	34910	31290	27670	20460	18730	16730	18650	19250
(WY)	1965	1993	1977	1993	1960	2003	1964	2003	1973	1941	1949	1945
MIN	1962	2461	1945	2967	3211	4074	3938	2283	1623	1945	1832	1642
(WY)	1955	1955	1956	1956	2001	1955	1967	2001	2002	2002	1999	1999

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	2573040		3067990		8974	
ANNUAL MEAN	7030		8405		15130	
HIGHEST ANNUAL MEAN					1965	
LOWEST ANNUAL MEAN					3245	
HIGHEST DAILY MEAN	92100	Sep 10	51700	Mar 30	150000	Oct 11 1976
LOWEST DAILY MEAN	1870	Aug 11	1610	Sep 21	662	Oct 18 1954
ANNUAL SEVEN-DAY MINIMUM	2340	May 27	2050	Sep 21	964	Oct 15 1954
MAXIMUM PEAK FLOW			55900		Mar 29	155000
MAXIMUM PEAK STAGE			17.76		Mar 29	29.74
ANNUAL RUNOFF (CFSM)	0.896		1.07		1.14	
ANNUAL RUNOFF (INCHES)	12.19		14.54		15.53	
10 PERCENT EXCEEDS	11700		14400		16100	
50 PERCENT EXCEEDS	5260		6790		6580	
90 PERCENT EXCEEDS	2900		3990		2910	

e Estimated

