

SANTEE 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 fair 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3950	5550	6510	10100	e15600	20700	13600	8980	9040	12400	13500	6660
2	3120	5270	5400	8800	e10800	15900	7360	7260	8380	22500	19000	6940
3	4070	3550	5420	8220	e10200	21700	6850	7540	5530	26600	13400	6180
4	3750	3280	e5750	10800	e8060	13500	9830	9670	8400	29000	13800	6780
5	4440	3210	e6120	7890	6630	8140	12200	10300	15500	18900	12400	6490
6	4530	4760	6640	7880	5460	32500	7190	15900	18500	17700	18800	6890
7	3730	6800	12600	8140	6260	53900	16200	25900	18800	12000	26800	7050
8	2340	7300	9780	8070	6900	51300	36000	35100	12700	11300	25700	7110
9	2200	5730	10100	7310	7910	37600	41700	33000	30500	14300	24900	5840
10	3200	5260	6240	6200	10900	30200	55200	23700	31100	8910	16500	5510
11	3910	4920	4880	7690	11900	14000	63200	11300	18900	e15000	15200	5870
12	3560	e6550	5120	7650	9640	14200	68200	11700	12900	e12900	12100	5480
13	3250	e12500	13100	8120	10900	15900	54100	9360	11000	e6850	12500	5560
14	4140	17800	19700	7370	8330	16300	33800	8610	7550	e11500	13200	5770
15	4630	10300	25100	5990	6230	12200	18000	7330	8510	20300	10300	4680
16	4720	8050	16700	5680	7880	14900	12800	8120	10800	12800	10200	4240
17	6590	8500	12000	6790	15900	20600	12900	8300	12100	11100	11000	4770
18	9880	22200	8400	6640	10300	27000	15800	8140	14400	11100	14800	5020
19	10200	11400	9540	5960	9800	31200	46300	10100	18400	9760	15300	4220
20	6950	9920	7920	5460	8610	48300	63500	11200	14300	9920	15400	4680
21	6490	8280	11100	3300	10700	89100	47100	18400	10200	12200	12900	4580
22	5150	8050	11100	3310	9140	113000	34100	16400	8250	9880	10600	3800
23	3440	9090	9780	3280	21900	89400	22600	36100	8910	10800	9370	3920
24	3500	7280	12700	4760	33800	49200	15000	68700	7450	10500	8920	4860
25	4320	7240	22800	4280	e27500	30200	17300	81800	8210	9020	8740	7870
26	3380	5740	37700	4850	e22900	25000	9870	51500	9150	9800	10100	e7300
27	3190	5980	31000	3870	16500	20100	8880	35600	6250	8880	5860	5660
28	3740	7080	18300	3530	21900	14400	14300	21500	6110	8460	7880	4390
29	4910	e6570	10400	e4610	---	11700	8910	14700	7490	7880	6990	5860
30	4260	5680	9340	e6260	---	e11700	12100	7760	7870	6920	6590	5990
31	4410	---	10000	e12900	---	16200	---	10300	---	7880	6450	---
TOTAL	139950	233840	381240	205710	352550	970040	784890	634270	367200	397060	409200	169970
MEAN	4515	7795	12300	6636	12590	31290	26160	20460	12240	12810	13200	5666
MAX	10200	22200	37700	12900	33800	113000	68200	81800	31100	29000	26800	7870
MIN	2200	3210	4880	3280	5460	8140	6850	7260	5530	6850	5860	3800
CFSM	0.58	0.99	1.57	0.85	1.60	3.99	3.33	2.61	1.56	1.63	1.68	0.72
IN.	0.66	1.11	1.81	0.97	1.67	4.60	3.72	3.01	1.74	1.88	1.94	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	7118	7082	8691	11730	13020	14410	11570	8007	7014	6612	7079	6164
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	1692110		5045920		9022	
ANNUAL MEAN	4636		13820		15130	
HIGHEST ANNUAL MEAN					3245	
LOWEST ANNUAL MEAN					150000	
HIGHEST DAILY MEAN	37700	Dec 26	113000	Mar 22	150000	Oct 11 1976
LOWEST DAILY MEAN	1010	Aug 29	2200	Oct 9	662	Oct 18 1954
ANNUAL SEVEN-DAY MINIMUM	1270	Jun 10	3170	Oct 7	964	Oct 15 1954
MAXIMUM PEAK FLOW			115000	Mar 22	155000	Oct 11 1976
MAXIMUM PEAK STAGE			25.79	Mar 22	29.74	Oct 11 1976
ANNUAL RUNOFF (CFSM)	0.59		1.76		1.15	
ANNUAL RUNOFF (INCHES)	8.02		23.91		15.62	
10 PERCENT EXCEEDS	9320		28100		16200	
50 PERCENT EXCEEDS	3440		9640		6620	
90 PERCENT EXCEEDS	1450		4560		2900	

e Estimated

