

02171645 REDIVERSION CANAL AT SANTEE RIVER NEAR ST. STEPHENS, SC

LOCATION.--Lat 33°25'26'', long 79°51'40'', Berkeley County, Hydrologic Unit 03050112, on right bank, 3.2 mi downstream from St. Stephens Powerhouse, 0.8 mi upstream from Santee River, and 3.0 mi west of St. Stephens.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Data collection platform. Datum of gage is sea level.

REMARKS.--Records poor. Discharge records for the 1987-2000 water years are computed by utilization of the One-Dimensional unsteady flow simulation model (BRANCH). Two auxiliary stations (sta. 02171560 and 02171700) are used with this station for computation of discharge. Flow is regulated by the St. Stephens Powerhouse and affected by tide during low-flow periods. Water is diverted above station from Lake Moultrie for generation of power and for navigation, then discharged into the West Branch Cooper River (see station 02172002). During periods of incomplete gage-height record, values of daily mean discharge from St. Stephens Powerhouse were obtained and used to estimate daily discharges. These values are shown as estimated daily discharges.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7	25	e3940	5	17100	7460	14400	3740	409	e0	e0	1
2	16	464	6740	0	11300	7530	15400	3010	4	e0	e72	7
3	21	4000	2310	208	13400	5570	13600	2260	5	e0	e0	2
4	25	2030	1050	9	5180	10000	13000	1850	7	e0	e0	5
5	23	74	5	3790	9150	4810	11300	e389	11	e0	e0	12
6	21	4	13	2020	15000	4660	11900	e1230	3	e172	e0	6
7	19	5	3940	2	9350	5590	13700	e1910	5	e0	e0	2
8	17	1710	1050	4	11400	7210	11600	e0	1	e0	4	5
9	16	1	2	6	4440	4860	14300	e530	2	e34	9	3
10	16	6	23	1560	2480	5140	16000	e40	3	e0	3	3
11	30	4	13	8	2620	4620	10700	e0	1	e0	12	6
12	34	7	14	1470	5500	4590	11300	e0	528	e30	4	4
13	12	518	12	1010	5360	4670	9870	e422	3	e0	5	7
14	12	0	22	6790	6150	5410	13700	e0	6	12	2	7
15	15	507	5	13900	6820	4460	9520	e0	5	0	2	8
16	21	2	2270	6040	15200	4590	8240	e390	2	8	6	e0
17	105	2530	132	966	15300	4470	14200	e0	252	12	3	e0
18	14	1660	270	5570	15500	6030	14000	e849	7	843	13	e0
19	2	4	303	5640	14900	4690	12500	e0	43	10	14	e0
20	7	2	4080	4700	16200	10700	10900	e0	13	5	5	e0
21	17	3	4000	9020	16400	10100	6340	e0	4	14	11	e0
22	12	5	1960	13000	15200	15700	6080	e0	11	43	7	e0
23	14	7	205	2220	17200	17000	5740	e0	7	e0	2	e0
24	18	0	18	11100	15800	17300	5410	e798	4	e0	5	e0
25	26	2	1070	14900	11900	17300	5990	e0	5	e0	8	e0
26	26	6	294	14600	11400	17300	5580	e0	311	e0	1	15
27	9	2	1110	17100	9830	17900	5850	6	28	e0	8	23
28	1	e0	716	17600	11000	17700	5850	9	5	e0	3	16
29	5	e0	17	17800	e6230	15800	6100	5	e0	e0	7	8
30	5	e0	29	12700	---	16200	5680	8	e0	e0	6	5
31	2040	---	33	19400	---	16800	---	70	---	e0	0	---
TOTAL	2606	13578	35646	203138	317310	296160	308750	17516	1685	1183	212	145
MEAN	84.1	453	1150	6553	10940	9554	10290	565	56.2	38.2	6.84	4.83
MAX	2040	4000	6740	19400	17200	17900	16000	3740	528	843	72	23
MIN	1	0	2	0	2480	4460	5410	0	0	0	0	0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	6574	7470	12150	14740	15030	16860	13050	8109	4586	3636	5561	5060		
MAX	16820	21590	24130	22410	23980	23900	24150	23930	15030	13960	23380	13080		
(WY)	1996	1996	1993	1998	1998	1987	1998	1991	1992	1989	1991	1995		
MIN	30.2	451	1150	2206	2744	2621	1225	192	18.8	1.00	6.84	4.83		
(WY)	1994	1999	2000	1989	1989	1988	1988	1988	1988	1988	2000	2000		

SANTEE RIVER BASIN

02171645 REDIVERSION CANAL AT SANTEE RIVER NEAR ST. STEPHENS, SC--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	1194968		1197929		9381	
ANNUAL MEAN	3274		3273		14610	
HIGHEST ANNUAL MEAN					3088	
LOWEST ANNUAL MEAN					31200	
HIGHEST DAILY MEAN	21600	Feb 5	19400	Jan 31	Nov 17	1989
LOWEST DAILY MEAN	0	a Feb 26	0	a Nov 14	Jun 25	1993
ANNUAL SEVEN-DAY MINIMUM	1.4	Nov 24	.00	Jun 29	.00	b Oct 1 1986
10 PERCENT EXCEEDS	13000		13600		22800	
50 PERCENT EXCEEDS	132		21		7600	
90 PERCENT EXCEEDS	.00		.00		5.0	

a Also occurred many days.
 b Also occurred many days, many years.

e Estimated

