

## 02172002 LAKE MOULTRIE TAILRACE CANAL AT MONCK'S CORNER, SC

LOCATION.--Lat 33°12'54'', long 79°58'29'', Berkeley County, Hydrologic Unit 03050201, on upstream side of left fender pier, under U.S. Highway 52 bridge, 2.2 mi below Lake Moultrie Pinopolis Dam, and at mile 45.8

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1978 to current year.

REVISED RECORDS.--WRD SC-95-1: 1992-94.

GAGE.--Two gages are used for computation of discharge at this station. The gages are located 2.2 mi upstream at Pinopolis Dam Tailrace (station 02172001) and 1.6 mi downstream at Stoney Landing (station 02172003).

REMARKS.--Records poor. Discharge records computed by utilization of One-Dimensional unsteady flow simulation model. Flow affected by tide and regulation from Lake Moultrie (see sta. 02172000). During periods of incomplete gage-height record, values of daily mean discharge from Jefferies Hydro Plant were obtained from the South Carolina Public Service Authority. These values are shown as estimated daily discharges. Negative daily mean discharges are computed for some days, which are caused by two complete incoming and only one complete outgoing tide cycles during the day.

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	e3410	e4290	6870	886	3800	3830	2730	4080	4730	2280	5350	6800
2	e3820	e3480	4370	2290	5720	4710	2150	2700	5460	4070	6440	3930
3	e3380	e8280	3290	6230	1960	5060	3030	5950	3690	2800	3680	3540
4	e3220	4360	2170	4070	2820	4220	4130	4020	2270	2950	4280	1120
5	e3460	3440	2920	5130	2410	1900	4480	6310	4030	5990	3850	3010
6	e3500	3520	3510	4000	2310	4190	4570	3260	2880	5180	4640	6210
7	e3840	3930	6340	4000	2300	4510	5710	2650	3230	4230	3680	5950
8	e3540	2790	3230	2160	2750	2940	4520	2850	4940	2770	5370	5160
9	e3810	3360	2820	1940	6760	3900	4740	e6720	7990	4170	4190	3170
10	e3170	4920	3720	3920	6540	4350	6430	e7690	786	4710	2510	2110
11	e4730	4460	2860	5440	6220	983	3450	e4300	5460	4000	2000	3900
12	e2270	3530	2000	7180	2820	4340	4240	2690	5950	5130	2380	5860
13	e3130	2390	4330	3610	3950	5180	5840	4050	3610	2430	1080	5600
14	e3230	2800	7180	7720	5480	4490	2980	3510	5450	5180	4990	5730
15	e3240	4740	5970	4630	4510	5100	3770	4030	3830	4720	3780	4240
16	e3140	6370	6080	3530	2360	6050	3390	3080	3270	3100	6320	3600
17	e4130	6880	4430	4240	7110	6490	4950	4970	5370	6510	5390	4470
18	e3190	2860	3040	5400	4980	3410	2830	5540	4400	5160	6220	4390
19	e2810	5120	4620	4140	3750	1810	3530	3820	4380	2630	2580	3490
20	e3070	2530	4410	1600	3910	3690	4950	3780	3470	3430	1040	4000
21	e3180	2290	4780	3520	2570	3220	4140	2320	4640	2160	3330	6070
22	e3280	4730	2980	3310	5670	5280	513	4650	458	1590	5650	5760
23	e3280	2920	4970	3560	3560	6110	2710	4480	3440	2750	6450	3330
24	e3100	5570	3750	4610	4890	4600	5140	5520	2600	4250	4790	6660
25	e5030	2200	5850	3130	4350	4970	6030	3020	3240	3770	4820	5850
26	e4320	6570	3280	7110	2830	4510	6000	4630	5870	4070	3720	2970
27	e4130	4100	6560	7270	4130	6350	6060	5120	4730	6370	1200	2370
28	e3630	3970	3430	6250	5690	4640	6490	2080	5060	6770	4220	4130
29	e5220	546	3160	4200	e4040	2740	2590	2610	2400	4250	2510	5970
30	e2960	5460	3750	2490	---	5620	2460	3320	4870	1040	5220	5350
31	e3190	---	3680	5780	---	4580	---	5640	---	4610	5670	---
TOTAL	109410	122406	130350	133346	120190	133773	124553	129390	122504	123070	127350	134740
MEAN	3529	4080	4205	4301	4144	4315	4152	4174	4083	3970	4108	4491
MAX	5220	8280	7180	7720	7110	6490	6490	7690	7990	6770	6450	6800
MIN	2270	546	2000	886	1960	983	513	2080	458	1040	1040	1120

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MEAN	6200	6256	8701	9532	9905	9998	9225	8326	7770	7258	6781	5735
MAX	21110	21700	22060	23480	27000	28630	28400	25660	21230	17670	20280	16560
(WY)	1980	1980	1983	1983	1983	1979	1979	1979	1979	1979	1984	1979
MIN	3529	3710	4059	3490	3958	4315	4139	3148	3089	3074	2658	3227
(WY)	2000	1993	1988	1988	1988	2000	1981	1986	1988	1986	1988	1985

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL TOTAL	1669616		1511082		8116	
ANNUAL MEAN	4574		4129		18220	
HIGHEST ANNUAL MEAN					3804	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	9230	Feb 14	8280	Nov 3	33700	Nov 25 1979
LOWEST DAILY MEAN	0	Feb 4	458	Jun 22	-521	Jan 26 1993
ANNUAL SEVEN-DAY MINIMUM	3130	Oct 18	2900	Feb 2	1790	Mar 19 1985
10 PERCENT EXCEEDS	6800		6140		20500	
50 PERCENT EXCEEDS	4410		4040		5520	
90 PERCENT EXCEEDS	2860		2380		2520	

e Estimated

