

## 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.--Data collection platform and acoustic velocity meter. Datum of gage is 0.82 ft below NGVD of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow affected by regulation from Lake Moultrie (see sta. 02172000) and astronomical tide. The astronomical tides occur at primary harmonic periods of 12.42 hours for semi-diurnal tides and 24.84 hours for diurnal tides. Computed 24-hour daily mean discharge for this site may be affected by aliasing due to tides and, thus, may contain spurious fluctuations or oscillations that are not indicative of net downstream discharge. Discharge records for the 1979-2001 water years computed by utilization of One-Dimensional unsteady flow simulation model and are rated poor.

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	6040	5740	3960	4200	7740	5850	6180	3990	4490	5490	3990	5440
2	5210	5060	4930	4060	4380	5480	5380	5150	6990	e4520	5380	5930
3	3840	4530	5150	4290	5400	4960	4710	5770	5780	3790	5270	5560
4	3820	3890	5540	6700	3740	6250	5530	4570	5300	5670	5560	4500
5	5570	6270	4700	4870	5410	3530	5140	5460	4590	5480	4980	4080
6	5410	4700	6110	4140	4550	4790	4940	4810	5110	5620	5060	4900
7	6170	4950	4160	6760	5010	5020	4930	5180	4230	5310	3400	4840
8	5660	5330	4870	4490	4530	3480	5070	5130	4020	4820	5630	5550
9	4600	5940	4170	4420	5020	6380	4580	4560	4300	5560	4870	5030
10	3800	3930	4240	4710	4520	5480	5240	3210	7400	4960	5920	5280
11	5190	5650	4990	5620	6080	5710	5100	5070	5190	5710	6780	5140
12	4490	3640	4900	4710	3490	5000	4700	5170	4490	3910	e4820	6120
13	5180	5060	6160	4830	3730	3150	5020	5890	4360	3050	e4210	6030
14	5610	4670	5270	5110	5320	5260	5110	5320	4480	3560	6360	3680
15	5630	5810	5860	5930	4430	5410	6210	4600	5340	9920	6650	3420
16	4940	4890	2400	6520	3960	5040	5080	4800	4450	5340	5570	5940
17	5040	6210	4960	e5300	7570	6320	4610	4600	6050	4010	4800	4610
18	4470	4060	4740	e1810	7720	5500	4750	4010	3720	3970	3740	3980
19	5240	4030	3000	2230	4760	5390	5140	4340	4560	5010	3980	4090
20	4420	5180	5860	5630	3030	5460	3900	6630	5250	5350	5180	5010
21	4600	5660	6140	5920	4790	4070	4550	3400	4490	5830	5100	4930
22	5980	3530	4990	3680	4720	4450	5860	5710	5580	5480	3870	5940
23	5270	5440	3250	6950	4980	4750	4420	4060	4340	4370	4700	7140
24	5570	4280	5730	4540	6110	5680	4770	3860	6490	5330	5070	5160
25	4640	4690	4760	4480	6740	5180	4780	4770	3380	5780	5380	4780
26	4350	6010	5900	3960	3760	5000	4850	5180	5330	5160	8020	6320
27	3830	5120	6220	4150	4980	4500	4770	6960	5120	5530	5310	4860
28	4730	3670	5100	6480	4160	6640	4680	5110	5900	5310	6080	2970
29	5880	5860	3880	3360	---	3740	6830	4530	5780	5490	4390	4910
30	4600	5430	4240	5390	---	6150	4650	3130	3810	4370	5510	5300
31	4820	---	3520	5120	---	5400	---	4730	---	5180	4120	---
TOTAL	154600	149230	149700	150360	140630	159020	151480	149700	150320	158880	159700	151440
MEAN	4987	4974	4829	4850	5022	5130	5049	4829	5011	5125	5152	5048
MAX	6170	6270	6220	6950	7740	6640	6830	6960	7400	9920	8020	7140
MIN	3800	3530	2400	1810	3030	3150	3900	3130	3380	3050	3400	2970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005, BY WATER YEAR (WY)

MEAN	5950	6007	7984	8643	8982	9083	8446	7680	7262	6844	6436	5590
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1979 - 2005	
ANNUAL TOTAL	1830420		1825060			
ANNUAL MEAN	5001		5000		7503	
HIGHEST ANNUAL MEAN					18220	1980
LOWEST ANNUAL MEAN					3804	1988
HIGHEST DAILY MEAN	9050	Feb 28	9920	Jul 15	33700	Nov 25 1979
LOWEST DAILY MEAN	1660	Jan 30	1810	Jan 18	-521	Jan 26 1993
ANNUAL SEVEN-DAY MINIMUM	4020	May 17	4180	Dec 28	1790	Mar 19 1985
MAXIMUM PEAK FLOW			25200		33700	Nov 25 1979
10 PERCENT EXCEEDS	6320		6110		17900	
50 PERCENT EXCEEDS	4990		5010		5280	
90 PERCENT EXCEEDS	3650		3830		2770	

e Estimated

