

## CHARLOTTE HARBOR AND COASTAL AREA

02293345 SHADROE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°39'07", long 82°02'22", in SE 1/4 SW 1/4 SW 1/4 sec.8 T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, near right bank on downstream side of wingwall of bridge on Embers Parkway, 75 ft west of NW 29th Place, 0.28 mi east of State Road 765 (Burnt Store Road) and 0.3 mi upstream of weir, at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department Bench Mark).

REMARKS.--Records good except for estimated daily discharges, which are poor. Zero flow occurs for numerous days, during most water years. Storm surges caused by Hurricanes on August 13, September 6, 26, 2004, created backwater conditions. Discharge is considered poor for those days.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT)SUMMARY STATISTICS.--Figures represent 17 complete water years of discharge (1988-2004).

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.65	2.50	2.46	2.49	2.52	2.50	2.45	2.59	2.44	2.49	2.85	2.59
2	2.62	2.50	2.46	2.49	2.51	2.50	2.45	2.49	2.44	2.52	2.91	2.56
3	2.60	2.52	2.46	2.49	2.50	2.50	2.45	2.48	2.44	2.51	3.10	2.55
4	2.59	2.52	2.46	2.49	2.48	2.49	2.45	2.47	2.44	2.52	2.98	2.57
5	2.58	2.51	2.47	2.48	2.47	2.49	2.45	2.46	2.44	2.52	2.85	2.62
6	2.58	2.52	2.47	2.48	2.47	2.49	2.45	2.45	2.44	2.51	2.78	2.95
7	2.57	2.53	2.46	2.48	2.47	2.49	2.45	2.45	2.43	2.50	2.72	2.69
8	2.57	2.51	2.46	2.47	2.47	2.48	2.45	2.45	2.44	2.50	2.65	2.63
9	2.57	2.51	2.45	2.47	2.47	2.47	2.44	2.45	2.45	2.49	2.62	2.68
10	2.56	2.50	2.45	2.48	2.47	2.47	2.44	2.45	2.44	2.50	2.60	2.74
11	2.56	2.49	2.45	2.47	2.47	2.47	2.44	2.45	2.43	2.51	2.58	2.63
12	2.56	2.49	2.44	2.47	2.47	2.47	2.46	2.45	2.43	2.52	2.57	2.60
13	2.55	2.49	2.44	2.47	2.47	2.47	2.46	2.45	2.46	2.51	2.90	2.58
14	2.55	2.48	2.59	2.47	2.47	2.47	2.44	2.45	2.68	2.49	2.93	2.57
15	2.55	2.48	2.54	2.47	2.49	2.47	2.44	2.45	2.66	2.48	2.67	2.56
16	2.54	2.48	2.54	2.47	2.47	2.48	2.44	2.45	2.57	2.48	2.62	2.55
17	2.54	2.48	2.60	2.47	2.47	2.48	2.44	2.45	2.52	2.48	2.80	2.54
18	2.54	2.48	2.54	2.58	2.47	2.47	2.44	2.44	2.51	2.48	2.89	2.54
19	2.54	2.49	2.52	2.55	2.47	2.47	2.44	2.44	2.50	2.52	2.83	2.54
20	2.53	2.49	2.51	2.51	2.47	2.47	2.44	2.44	2.50	2.69	2.85	2.54
21	2.53	2.48	2.50	2.49	2.47	2.46	2.44	2.44	2.49	2.63	2.79	2.57
22	2.53	2.48	2.50	2.49	2.47	2.46	2.44	2.44	2.48	2.57	2.68	2.55
23	2.53	2.48	2.50	2.49	2.47	2.46	2.44	2.44	2.48	2.55	2.69	2.53
24	2.53	2.48	2.51	2.49	2.47	2.46	2.44	2.44	2.49	2.54	2.68	2.52
25	2.52	2.48	2.50	2.49	2.56	2.46	2.44	2.44	2.49	2.54	2.66	2.52
26	2.51	2.48	2.50	2.49	2.60	2.45	2.44	2.44	2.50	2.54	2.65	2.78
27	2.51	2.48	2.50	2.49	2.54	2.45	2.44	2.44	2.51	2.58	2.61	2.67
28	2.52	2.48	2.49	2.49	2.51	2.45	2.44	2.44	2.51	2.61	2.60	2.55
29	2.55	2.47	2.49	2.48	2.51	2.45	2.47	2.44	2.50	2.61	2.59	2.52
30	2.52	2.46	2.49	2.49	---	2.45	2.50	2.44	2.49	2.60	2.58	2.52
31	2.51	---	2.49	2.51	---	2.45	---	2.44	---	2.57	2.58	---
TOTAL	79.11	74.74	77.24	77.15	72.15	76.60	73.41	76.05	74.60	78.56	84.81	77.96
MEAN	2.55	2.49	2.49	2.49	2.49	2.47	2.45	2.45	2.49	2.53	2.74	2.60
MAX	2.65	2.53	2.60	2.58	2.60	2.50	2.50	2.59	2.68	2.69	3.10	2.95
MIN	2.51	2.46	2.44	2.47	2.47	2.45	2.44	2.44	2.43	2.48	2.57	2.52

02293345 SHADROE CANAL AT CAPE CORAL, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	7.4	4.0	6.4	11	7.8	1.7	22	1.2	7.3	94	19
2	22	7.4	4.1	6.4	8.9	7.5	1.7	8.8	1.2	10	102	16
3	20	9.2	4.0	6.3	8.0	7.3	1.7	6.9	1.1	9.2	158	15
4	18	9.4	3.9	6.3	6.5	6.7	1.7	6.1	0.81	10	121	16
5	17	8.4	4.4	6.0	5.6	6.4	1.6	4.4	0.81	10	84	25
6	16	9.6	4.4	6.1	5.6	5.5	1.6	3.9	0.81	9.2	65	e34
7	15	9.9	3.9	6.1	5.6	5.2	1.6	3.9	0.57	8.2	49	39
8	15	8.5	3.5	5.6	5.6	4.6	1.4	3.9	1.0	7.8	33	26
9	15	7.9	2.9	5.8	5.6	3.9	1.2	3.9	1.3	7.4	26	42
10	14	7.1	3.2	6.0	5.6	3.9	1.2	3.9	0.94	8.1	22	53
11	14	6.7	3.2	5.2	5.6	3.9	1.1	3.9	0.56	9.3	20	26
12	13	6.4	2.6	5.5	5.6	3.9	2.8	3.3	0.51	10	19	22
13	13	6.4	2.3	5.6	5.6	3.9	2.2	3.0	2.7	8.8	e67	19
14	13	5.8	23	5.5	5.3	3.9	1.3	2.9	44	7.7	e80	16
15	12	5.6	12	5.6	6.1	3.9	1.2	2.6	35	6.6	38	14
16	11	5.7	13	5.6	4.8	4.6	1.2	2.8	18	6.3	27	13
17	11	5.8	20	5.6	4.7	4.3	1.2	2.9	12	6.2	76	12
18	11	5.7	11	21	4.7	3.9	1.2	2.4	10	6.5	95	12
19	11	6.6	9.1	15	4.7	3.9	1.2	2.1	9.7	10	79	11
20	11	6.6	8.2	9.2	4.7	3.7	1.2	1.8	9.0	42	85	11
21	10	6.0	7.4	7.6	4.7	3.1	1.2	1.7	8.3	27	66	15
22	10	5.7	7.4	7.3	4.7	3.0	1.2	1.7	6.9	16	39	13
23	10	5.6	7.3	7.3	4.6	3.0	1.2	1.7	6.4	14	41	11
24	10	5.5	8.2	7.2	4.6	3.0	1.2	1.7	7.4	14	38	9.1
25	9.0	5.6	7.8	7.1	15	3.0	1.2	1.7	6.9	14	34	9.0
26	8.5	5.6	7.3	7.2	19	1.9	1.2	1.7	8.9	14	32	e7.7
27	8.7	5.5	6.9	7.4	11	1.7	1.2	1.3	9.5	19	24	37
28	9.6	5.4	6.5	6.9	8.6	1.7	1.2	1.2	9.4	24	21	15
29	13	4.3	6.4	6.4	8.1	1.7	3.3	1.2	7.9	25	20	12
30	9.7	3.9	6.4	7.4	---	1.7	5.6	1.2	7.2	23	19	11
31	8.2	---	6.4	9.3	---	1.7	---	1.2	---	19	18	---
TOTAL	406.7	199.2	220.7	225.9	200.1	124.2	48.5	111.7	230.01	409.6	1,692	580.8
MEAN	13.1	6.64	7.12	7.29	6.90	4.01	1.62	3.60	7.67	13.2	54.6	19.4
MAX	28	9.9	23	21	19	7.8	5.6	22	44	42	158	53
MIN	8.2	3.9	2.3	5.2	4.6	1.7	1.1	1.2	0.51	6.2	18	7.7
AC-FT	807	395	438	448	397	246	96	222	456	812	3,360	1,150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

	MEAN	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	16.6	6.98	4.95	5.79	5.45	4.01	2.45	3.31	10.6	20.0	22.5	26.0
MAX	114	27.2	28.5	19.3	38.2	13.1	7.99	14.8	53.8	63.6	68.4	75.8
(WY)	(1996)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(1995)	(1995)	(1995)
MIN	2.56	0.50	0.00	0.82	0.31	0.37	0.03	0.00	0.01	3.31	3.43	3.77
(WY)	(1989)	(1991)	(1991)	(2001)	(2001)	(1990)	(2000)	(1999)	(1988)	(1988)	(1989)	(1990)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	7,830.0		4,449.41			
ANNUAL MEAN	21.5		12.2		10.5	
HIGHEST ANNUAL MEAN					24.5	
LOWEST ANNUAL MEAN					3.70	
HIGHEST DAILY MEAN	321	Jun 23	158	Aug 3	903	Jul 23, 2001
LOWEST DAILY MEAN	1.8	Apr 25	0.51	Jun 12	0.00**	
ANNUAL SEVEN-DAY MINIMUM	3.1	Dec 7	0.81	Jun 6	0.00**	
MAXIMUM PEAK FLOW			326	Aug 3	1,580	Jul 23, 2001
MAXIMUM PEAK STAGE			3.68	Aug 3	4.61	Sep 3, 1995
INSTANTANEOUS LOW FLOW			0.33	Jun 7	0.00**	
ANNUAL RUNOFF (AC-FT)	15,530		8,830		7,590	
10 PERCENT EXCEEDS	48		25		20	
50 PERCENT EXCEEDS	10		6.9		3.8	
90 PERCENT EXCEEDS	4.3		1.5		0.25	

e Estimated

\*\* Many days during water years 1989-92, 1994-95, 1997-2001, several days in 2002.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.