

CHARLOTTE HARBOR AND COASTAL AREA

264437081550100 GATOR SLOUGH AT U.S. 41 NEAR FT. MYERS, FL

LOCATION.--Lat 26°44'38", long 81°54'59", in SE ¼ NE ¼ SW ¼ sec.9, T.43 S., R.24 E., Lee County, Hydrologic Unit 03100103, 325 ft upstream of bridge on U.S. Highway 41, 4.4 mi north of State Road 78, and 8.3 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1973 to 1984 (annual maximum gage heights only), June 1984 to current year. Prior to 1984, published as Gator Slough near Ft. Myers, FL.

REVISED RECORDS.--WDR FL-03-2A, 2001.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to April 26, 1988, at site 325 ft downstream on upstream side of bridge on U.S. Highway 41 at datum -1.07 ft lower. Gage was extended into deeper water at same location May 27, 1997.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Zero flow occurs for numerous days during most water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 19 complete water years of discharge (1985-2004).

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	16.91	16.03	15.54	15.37	15.43	15.67	15.31	15.35	15.00	15.62	16.88	16.31
2	16.71	16.02	15.52	15.36	15.42	15.61	15.28	15.32	15.00	15.54	17.41	16.31
3	16.57	16.05	15.40	15.36	15.41	15.57	15.26	15.34	15.00	15.50	17.59	16.27
4	16.47	16.11	15.29	15.35	15.40	15.54	15.23	15.37	15.00	15.50	17.62	16.27
5	16.35	16.11	15.29	15.34	15.38	15.51	15.20	15.35	15.00	15.49	17.45	16.39
6	16.26	16.17	15.28	15.34	15.37	15.48	15.16	15.34	15.00	15.48	17.21	16.75
7	16.22	16.28	15.27	15.32	15.36	15.48	15.14	15.31	15.05	15.46	16.94	17.03
8	16.18	16.28	15.26	15.31	15.35	15.47	15.11	15.30	15.02	15.41	16.73	16.98
9	16.17	16.24	15.26	15.31	15.33	15.46	15.09	15.28	15.00	15.39	16.58	16.87
10	16.15	16.20	15.27	15.31	15.33	15.47	15.06	15.27	15.01	15.37	16.69	17.02
11	16.14	16.17	15.27	15.30	15.32	15.48	15.05	15.26	15.01	15.53	16.76	16.74
12	16.13	16.14	15.26	15.29	15.32	15.47	15.22	15.23	15.00	16.26	16.56	16.59
13	16.14	16.11	15.26	15.29	15.33	15.47	15.31	15.20	15.08	16.14	16.88	16.56
14	16.15	16.07	15.36	15.29	15.34	15.46	15.34	15.16	15.36	15.95	17.87	16.43
15	16.15	16.04	15.40	15.29	15.37	15.46	15.31	15.12	15.47	15.82	17.43	16.31
16	16.14	16.00	15.45	15.28	15.37	15.47	15.29	15.09	15.60	15.72	17.05	16.23
17	16.13	15.96	15.92	15.27	15.36	15.50	15.26	15.06	15.55	15.68	16.81	16.16
18	16.11	15.93	15.91	15.39	15.35	15.49	15.23	15.06	15.49	15.63	16.72	16.10
19	16.09	15.91	15.83	15.47	15.35	15.48	15.19	15.05	15.43	15.68	16.79	16.06
20	16.09	15.93	15.74	15.43	15.33	15.47	15.16	15.04	15.39	---	16.84	16.03
21	16.09	15.88	15.66	15.40	15.33	15.46	15.11	15.04	15.36	---	16.77	16.17
22	16.09	15.84	15.62	15.40	15.33	15.46	15.07	15.04	15.33	16.54	16.64	16.25
23	16.09	15.80	15.58	15.38	15.32	15.45	15.06	15.04	15.32	16.21	16.61	16.19
24	16.07	15.75	15.55	15.36	15.32	15.42	15.04	15.03	15.33	15.99	16.76	16.12
25	16.06	15.71	15.50	15.35	15.55	15.41	15.03	15.03	15.47	15.90	16.77	16.09
26	16.05	15.68	15.46	15.35	16.09	15.41	15.03	15.02	15.41	---	16.70	16.13
27	16.04	15.64	15.43	15.35	16.06	15.41	15.03	15.02	15.47	---	16.58	16.22
28	16.06	15.60	15.41	15.35	15.90	15.39	15.03	15.01	15.46	---	16.49	16.21
29	16.08	15.57	15.40	15.34	15.78	15.38	15.03	15.01	15.43	---	16.40	16.12
30	16.07	15.54	15.38	15.36	---	15.37	15.04	15.01	15.55	---	16.31	16.05
31	16.06	---	15.38	15.39	---	15.34	---	15.00	---	16.84	16.27	---
TOTAL	502.02	478.76	479.15	475.70	447.90	479.51	454.67	469.75	457.59	---	523.11	490.96
MEAN	16.19	15.96	15.46	15.35	15.44	15.47	15.16	15.15	15.25	---	16.87	16.37
MAX	16.91	16.28	15.92	15.47	16.09	15.67	15.34	15.37	15.60	---	17.87	17.03
MIN	16.04	15.54	15.26	15.27	15.32	15.34	15.03	15.00	15.00	---	16.27	16.03

264437081550100 GATOR SLOUGH AT U.S. 41 NEAR FT. MYERS, 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	49	7.6	0.87	0.52	0.97	3.6	0.20	0.32	0.00	2.6	37	14
2	34	7.3	0.78	0.49	0.94	2.9	0.13	0.22	0.00	1.9	63	14
3	26	8.1	0.36	0.49	0.85	2.5	0.08	0.29	0.00	1.5	75	13
4	21	9.8	0.07	0.47	0.79	2.1	0.04	0.37	0.00	1.5	76	13
5	17	9.7	0.06	0.41	0.70	1.8	0.01	0.32	0.00	1.4	65	16
6	13	12	0.05	0.40	0.64	1.6	0.00	0.27	0.00	1.3	51	29
7	12	15	0.04	0.35	0.63	1.5	0.00	0.21	0.01	1.2	37	41
8	11	15	0.04	0.31	0.55	1.4	0.00	0.17	0.00	0.85	28	39
9	10	14	0.03	0.31	0.49	1.3	0.00	0.14	0.00	0.74	22	34
10	9.8	13	0.05	0.31	0.49	1.4	0.00	0.12	0.00	0.64	27	41
11	9.6	12	0.07	0.32	0.45	1.4	0.00	0.09	0.00	2.8	29	29
12	9.4	11	0.05	0.29	0.46	1.3	0.09	0.06	0.00	14	22	23
13	9.9	9.9	0.05	0.28	0.49	1.2	0.17	0.03	0.04	11	34	22
14	10	9.1	0.33	0.28	0.51	1.2	0.25	0.00	0.47	7.0	71	18
15	10	8.2	0.41	0.27	0.68	1.2	0.18	0.00	1.4	4.8	54	14
16	9.6	7.3	0.84	0.25	0.64	1.2	0.13	0.00	2.1	3.4	41	12
17	9.6	6.6	5.7	0.23	0.62	1.4	0.08	0.00	1.7	3.0	31	10
18	9.1	6.1	5.6	0.75	0.59	1.2	0.04	0.00	1.2	2.5	28	9.1
19	8.7	5.7	4.4	1.1	0.55	1.2	0.01	0.00	0.89	2.9	30	8.3
20	8.7	5.9	3.2	0.89	0.50	1.1	0.00	0.00	0.68	e24	33	7.8
21	8.6	5.1	2.5	0.76	0.49	0.98	0.00	0.00	0.57	e32	29	11
22	8.7	4.4	2.1	0.74	0.49	0.98	0.00	0.00	0.46	22	24	13
23	8.6	3.7	1.8	0.67	0.47	0.87	0.00	0.00	0.40	12	23	11
24	8.1	3.1	1.6	0.59	0.43	0.73	0.00	0.00	0.47	7.5	29	9.6
25	8.0	2.6	1.2	0.54	2.6	0.67	0.00	0.00	1.2	5.8	29	9.0
26	7.8	2.1	0.94	0.51	11	0.61	0.00	0.00	0.89	e5.2	27	9.7
27	7.7	1.7	0.79	0.53	10	0.62	0.00	0.00	1.3	e6.6	22	12
28	8.3	1.4	0.69	0.52	7.2	0.51	0.00	0.00	1.3	e12	19	12
29	8.7	1.1	0.62	0.51	5.1	0.46	0.00	0.00	1.0	e20	16	9.6
30	8.5	0.93	0.55	0.55	---	0.39	0.01	0.00	2.0	e36	14	8.1
31	8.1	---	0.52	0.73	---	0.28	---	0.00	---	33	13	---
TOTAL	388.5	219.43	36.31	15.37	50.32	39.60	1.42	2.61	18.08	281.13	1,099	512.2
MEAN	12.5	7.31	1.17	0.50	1.74	1.28	0.05	0.08	0.60	9.07	35.5	17.1
MAX	49	15	5.7	1.1	11	3.6	0.25	0.37	2.1	36	76	41
MIN	7.7	0.93	0.03	0.23	0.43	0.28	0.00	0.00	0.00	0.64	13	7.8
AC-FT	771	435	72	30	100	79	2.8	5.2	36	558	2,180	1,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
	8.36	39.8	0.96	(1996)	3.29	13.4	0.01	(1989)	2.36	15.4	0.00	(1989)	2.21	15.1	0.00	(1989)	1.93	23.8	0.00	(1986)
	2.36	15.4	0.00	(1989)	2.21	15.1	0.00	(1989)	1.93	23.8	0.00	(1986)	1.81	18.6	0.00	(1989)	0.90	4.38	0.00	(1989)
	2.14	28.3	0.00	(1991)	2.14	28.3	0.00	(1991)	12.0	47.3	0.01	(2001)	18.9	41.5	1.66	(1998)	19.1	49.7	1.24	(1990)
	12.0	47.3	0.01	(2001)	18.9	41.5	1.66	(1998)	19.1	49.7	1.24	(1990)	17.7	41.9	0.79	(1995)				(1995)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1984 - 2004

ANNUAL TOTAL	5,195.10	2,663.97	
ANNUAL MEAN	14.2	7.28	7.61
HIGHEST ANNUAL MEAN			17.5
LOWEST ANNUAL MEAN			0.64
HIGHEST DAILY MEAN	153	76	277
LOWEST DAILY MEAN	0.03	0.00	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.05	0.00	0.00**
MAXIMUM PEAK FLOW		97	518
MAXIMUM PEAK STAGE		17.90	19.44
ANNUAL RUNOFF (AC-FT)	10,300	5,280	5,510
10 PERCENT EXCEEDS	34	23	22
50 PERCENT EXCEEDS	7.4	1.2	1.4
90 PERCENT EXCEEDS	0.47	0.00	0.00

e Estimated

** Many days during water years 1986, 1989-93, 1997-2002, 2004

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.

WATER RESOURCES DATA - FLORIDA, 2004
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