

## 02288800 TAMIAMI CANAL OUTLETS, MONROE TO CARNESTOWN, FL

LOCATION.--Lat 25°53'10", long 81°15'30", in NW ¼ sec.6, T.53 S., R.31 E., Collier County, Hydrologic Unit 03090204, on downstream side of bridge 84 on U.S. Highway 41, 7 mi east of Carnestown, and 10 mi west of Monroe.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WDR FL-98-2A, 1997.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 2, 1963, at site 2 mi east at datum 0.93 ft lower. From May 2, 1963 to February 10, 1965, at site on west bank of unnamed lateral 30 ft downstream.

REMARKS.--Records poor. Figures of discharge consist of runoff from Big Cypress Watershed as represented by flow through all the outlets of the Tamiami Canal from Monroe, 55 mi west of Miami, to a point 1 mi east of the intersection with State Highway 29 at Carnestown (Bridge numbers 95-77). Flow at western-most outlets affected by tide. Flow measurements under tidal influence are computed as zero flow. Zero flow occurs for numerous days, during most of the water years. Peak flow above base is not determined.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 43 complete water years of discharge (1960-94, 1996-2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 5.90 ft present datum Sept. 14, 1960; minimum, -0.52 ft, June 5-8, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 5.67 ft Oct. 1; minimum, 0.24 ft June 7.

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	5.66	4.18	3.55	3.13	3.76	4.16	2.45	2.25	0.42	3.23	3.85	---
2	5.65	4.15	3.52	3.11	3.78	4.14	2.36	2.27	0.36	3.39	3.89	---
3	5.58	4.19	3.49	3.10	3.75	4.11	2.28	2.86	0.31	3.55	4.28	---
4	5.50	4.27	3.46	3.08	3.72	4.07	2.19	3.06	0.33	3.62	4.61	---
5	5.40	4.34	3.45	3.06	3.68	4.02	2.12	3.04	0.32	3.64	4.68	---
6	5.30	4.42	3.47	3.04	3.65	3.97	2.04	2.95	0.29	3.59	4.80	---
7	5.20	4.40	3.43	3.02	3.62	3.91	1.97	2.85	0.26	3.52	4.89	---
8	5.10	4.38	3.39	2.99	3.59	3.85	1.90	2.75	0.29	3.44	4.91	---
9	5.02	4.36	3.36	2.97	3.56	3.77	1.83	2.65	0.31	3.37	4.91	---
10	4.95	4.32	3.34	2.95	3.54	3.70	1.77	2.55	0.40	3.37	4.91	---
11	4.89	4.28	3.33	2.92	3.52	3.63	1.69	2.46	0.96	3.53	4.90	---
12	4.82	4.24	3.30	2.88	3.50	3.56	1.67	2.36	1.17	3.49	4.85	---
13	4.75	4.20	3.28	2.86	3.49	3.50	2.72	2.24	1.28	3.41	4.82	---
14	4.68	4.17	3.30	2.83	3.46	3.44	3.20	2.11	1.85	3.33	---	---
15	4.63	4.13	3.38	2.81	3.49	3.38	3.23	1.98	3.18	3.26	---	---
16	4.56	4.09	3.39	2.79	3.52	3.35	3.21	1.86	3.25	3.22	4.77	4.66
17	4.50	4.06	3.41	2.77	3.50	3.33	3.18	1.74	3.20	3.26	4.78	4.64
18	4.46	4.03	3.40	2.89	3.47	3.28	3.13	1.60	3.13	3.29	4.78	4.62
19	4.42	4.00	3.38	3.23	3.43	3.21	3.08	1.48	3.06	3.36	4.73	4.59
20	4.38	3.98	3.36	3.25	3.40	3.14	3.02	1.36	2.98	3.48	4.66	4.54
21	4.34	3.94	3.34	3.24	3.36	3.06	2.96	1.26	2.89	3.52	4.60	4.52
22	4.31	3.90	3.32	3.22	3.32	2.98	2.89	1.15	2.81	3.53	4.67	4.51
23	4.27	3.85	3.30	3.20	3.28	2.89	2.82	1.05	2.72	3.50	4.80	4.52
24	4.24	3.81	3.29	3.18	3.24	2.81	2.76	0.98	2.62	3.45	4.93	4.53
25	4.21	3.77	3.27	3.16	3.29	2.76	2.71	0.91	2.53	3.42	5.04	4.52
26	4.18	3.74	3.25	3.14	3.27	2.77	2.63	0.84	2.48	3.47	5.08	4.51
27	4.15	3.70	3.23	3.15	3.25	2.79	2.56	0.76	2.39	3.56	5.08	4.51
28	4.12	3.66	3.21	3.16	4.09	2.75	2.50	0.69	2.38	3.98	5.05	4.51
29	4.25	3.62	3.19	3.14	4.15	2.67	2.42	0.62	2.74	4.06	4.98	4.53
30	4.26	3.58	3.17	3.16	---	2.60	2.34	0.55	2.96	4.00	4.95	4.51
31	4.22	---	3.15	3.60	---	2.52	---	0.48	---	3.91	4.98	---
TOTAL	146.00	121.76	103.71	95.03	103.83	104.12	75.63	55.71	53.87	108.75	---	---
MEAN	4.71	4.06	3.35	3.07	3.58	3.36	2.52	1.80	1.80	3.51	---	---
MAX	5.66	4.42	3.55	3.60	4.15	4.16	3.23	3.06	3.25	4.06	---	---
MIN	4.12	3.58	3.15	2.77	3.24	2.52	1.67	0.48	0.26	3.22	---	---

## 02288800 TAMIAMI CANAL OUTLETS, MONROE TO CARNESTOWN, 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	4,570	494	108	22	197	240	0.02	1.1	e11	22	334	e2,150
2	4,520	453	102	20	203	229	0.00	1.3	e9.6	35	409	e2,180
3	4,230	494	93	18	183	212	0.00	7.0	e8.1	55	960	e2,050
4	3,870	574	86	17	160	197	0.00	15	e8.7	63	1,630	e1,970
5	3,450	648	84	15	137	175	0.00	14	e8.6	63	1,840	e1,890
6	3,060	744	90	13	117	153	0.00	9.5	e7.5	48	2,200	e1,800
7	2,710	700	81	12	100	134	0.00	6.8	e7.0	31	2,510	e1,710
8	2,420	664	72	10	85	114	0.00	5.1	e7.7	19	2,590	e1,610
9	2,180	626	66	9.6	75	92	0.00	3.9	e8.3	11	2,590	e1,500
10	1,990	566	61	9.0	66	74	0.00	3.1	e13	11	2,590	e1,390
11	1,840	507	58	8.1	59	60	0.00	2.4	e25	21	2,520	e1,320
12	1,680	458	53	7.2	53	49	0.00	1.8	e29	15	2,210	e1,280
13	1,500	417	51	6.8	47	40	3.4	1.2	e33	8.3	2,000	e1,190
14	1,340	377	56	6.3	41	32	16	0.62	e48	5.3	e1,850	e1,110
15	1,220	339	71	5.9	43	26	23	0.17	71	3.8	e1,650	e1,040
16	1,090	305	74	5.6	44	23	22	0.00	80	3.8	1,580	1,000
17	970	275	76	5.2	39	21	19	0.00	64	4.8	1,520	968
18	897	246	74	10	33	17	16	0.00	47	6.2	1,510	957
19	826	239	68	35	28	12	13	0.00	33	10	1,380	912
20	766	232	62	46	25	8.7	10	0.00	22	24	1,220	857
21	709	218	57	45	22	6.4	8.1	0.00	14	32	1,090	836
22	656	204	52	42	19	4.8	6.6	0.00	8.8	39	1,210	838
23	610	188	49	40	16	3.6	5.5	0.00	6.3	40	1,490	865
24	571	175	46	37	13	2.8	4.6	0.00	4.4	39	1,830	889
25	534	162	42	34	18	2.3	4.0	e0.07	3.2	42	2,140	886
26	505	151	38	32	79	2.2	3.3	e0.42	2.7	57	2,260	891
27	472	141	35	33	148	2.3	2.8	e0.88	1.9	89	2,220	906
28	442	133	32	35	204	1.9	2.4	e1.6	1.8	295	2,130	925
29	576	123	29	32	235	1.3	2.0	e2.5	4.4	385	1,910	962
30	572	113	26	36	---	0.75	1.5	e3.8	9.2	373	1,820	955
31	536	---	24	134	---	0.32	---	e6.4	---	341	1,890	---
TOTAL	51,312	10,966	1,916	781.7	2,489	1,937.37	163.22	88.66	598.2	2,192.2	55,083	37,837
MEAN	1,655	366	61.8	25.2	85.8	62.5	5.44	2.86	19.9	70.7	1,777	1,261
MAX	4,570	744	108	134	235	240	23	15	80	385	2,590	2,180
MIN	442	113	24	5.2	13	0.32	0.00	0.00	1.8	3.8	334	836
AC-FT	101,800	21,750	3,800	1,550	4,940	3,840	324	176	1,190	4,350	109,300	75,050

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	888	342	163	133	105	104	40.1	46.0	450	750	908	1,225
MAX	2,623	1,877	1,627	1,312	840	1,499	397	347	2,658	2,830	1,948	3,165
(WY)	(2000)	(1995)	(1995)	(1995)	(1983)	(1970)	(1970)	(1996)	(1969)	(1966)	(1981)	(1960)
MIN	68.7	12.8	0.03	0.01	0.00	0.00	0.00	0.00	6.58	40.0	38.0	341
(WY)	(1962)	(1991)	(1991)	(2001)	(1982)	(1975)	(1961)	(1962)	(2001)	(1980)	(1963)	(1967)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1960 - 2004

ANNUAL TOTAL	228,986.92		165,364.35			
ANNUAL MEAN	627		452		414	
HIGHEST ANNUAL MEAN					790	1983
LOWEST ANNUAL MEAN					187	1975
HIGHEST DAILY MEAN	4,570	Oct 1	4,570	Oct 1	6,010	Sep 13, 1960
LOWEST DAILY MEAN	0.00	few days	0.00	few days		
ANNUAL SEVEN-DAY MINIMUM	0.00	few days	0.00	few days		
ANNUAL RUNOFF (AC-FT)	454,200		328,000		300,000	
10 PERCENT EXCEEDS	1,670		1,690		1,260	
50 PERCENT EXCEEDS	246		52		100	
90 PERCENT EXCEEDS	8.2		1.9		0.00	

e Estimated

\*\* Many days during water years 1961-62, 1966, 1970, 1972-77, 1979-83, 1988-96, 1998-2004

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.