

## 02289019 TAMiami CANAL AT S-12-B, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°46'05", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on west bank of spillway, 100 ft southwest of control structure 12-B, and 35 mi west of Miami. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to September 1963, October 1963 to September 1965, October 1966 to September 1975 (gage heights only), October 1975 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoders for upstream and downstream stages. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. Since March 9, 1990, satellite data collection platform. Station is one of several located below the gated control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through structure 12-B. Discharge computed from relation between discharge, head, and gate openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions. Discharge records for the missing periods above were either fragmentary or unavailable from files of the U. S. Geological Survey. Upstream gage height records were formerly published under 02289018. Upstream gage height records have been relocated under 02289019 as "Published upstream" record in the files of the U.S. Geological Survey.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 31 complete water years of discharge (1964-65, 1976-2004).

COOPERATION.--Gate opening records provided by U.S. Army Corps of Engineers.

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.92 ft Dec. 21, 1994; minimum, 5.14 ft June 18, 19, 1989.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.72 ft Oct. 1; minimum, 7.58 ft June 3.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.91 ft Dec. 21, 1994; minimum, 5.02 ft June 19, 1989.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.71 ft Oct. 1; minimum, 6.93 ft June 3.

UPSTREAM  
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	10.71	10.33	10.06	9.85	10.05	9.72	8.93	8.53	7.71	8.03	8.78	9.91
2	10.68	10.34	10.05	9.85	10.05	9.69	8.91	8.50	7.67	8.06	8.89	9.89
3	10.65	10.34	10.02	9.85	10.05	9.67	8.87	8.56	7.63	8.08	9.01	9.86
4	10.62	10.40	10.00	9.85	10.05	9.64	8.84	8.75	7.87	8.12	9.07	9.86
5	10.60	10.49	9.99	9.84	10.03	9.60	8.81	8.74	7.91	8.12	9.09	9.84
6	10.58	10.50	10.03	9.84	10.00	9.57	8.79	8.73	7.90	8.12	9.14	9.89
7	10.56	10.50	10.00	9.86	10.00	9.54	8.76	8.70	7.88	8.12	9.16	9.93
8	10.54	10.50	9.97	9.88	10.01	9.51	8.71	8.66	8.07	8.14	9.18	9.95
9	10.53	10.50	9.95	9.87	9.98	9.48	8.68	8.63	8.13	8.13	9.20	9.96
10	10.51	10.49	9.94	9.88	9.95	9.44	8.67	8.60	8.15	8.10	9.20	9.98
11	10.49	10.49	9.94	9.89	9.93	9.41	8.69	8.55	8.21	8.17	9.21	9.99
12	10.50	10.47	9.93	9.87	9.91	9.37	8.71	8.53	8.16	8.22	9.21	10.00
13	10.48	10.45	9.91	9.86	9.89	9.33	8.82	8.51	8.08	8.16	9.19	10.02
14	10.49	10.43	9.93	9.85	9.88	9.30	8.90	8.49	8.00	8.04	9.23	10.04
15	10.50	10.40	9.98	9.84	9.87	9.27	8.89	8.47	8.09	7.98	9.30	10.04
16	10.45	10.38	9.97	9.84	9.88	9.22	8.89	8.41	8.16	8.08	9.32	10.07
17	10.43	10.36	9.95	9.83	9.86	9.20	8.88	8.41	8.07	8.16	9.39	10.10
18	10.42	10.33	9.93	9.85	9.85	9.20	8.86	8.34	8.12	8.17	9.42	10.16
19	10.40	10.30	9.91	9.92	9.81	9.19	8.85	8.30	8.03	8.19	9.44	10.21
20	10.38	10.29	9.90	9.91	9.78	9.18	8.82	8.26	8.09	8.32	9.47	10.22
21	10.36	10.27	9.88	9.90	9.75	9.16	8.78	8.22	8.13	8.42	9.50	10.20
22	10.33	10.25	9.87	9.89	9.72	9.14	8.77	8.12	8.15	8.44	9.54	10.23
23	10.31	10.22	9.86	9.88	9.69	9.13	8.74	8.04	8.16	8.45	9.59	10.25
24	10.30	10.20	9.86	9.86	9.65	9.10	8.72	7.99	8.03	8.46	9.64	10.26
25	10.29	10.18	9.87	9.85	9.70	9.11	8.69	7.93	7.93	8.49	9.70	10.29
26	10.29	10.17	9.86	9.83	9.80	9.12	8.65	7.90	7.87	8.52	9.74	10.24
27	10.27	10.17	9.86	9.81	9.79	9.10	8.62	7.88	7.77	8.57	9.74	10.32
28	10.25	10.15	9.85	9.83	9.79	9.06	8.62	7.86	7.70	8.62	9.78	10.38
29	10.29	10.13	9.83	9.82	9.76	9.04	8.61	7.82	7.68	8.65	9.81	10.43
30	10.29	10.09	9.82	9.82	---	9.01	8.57	7.77	7.75	8.68	9.84	10.49
31	10.29	---	9.83	9.92	---	8.97	---	7.74	---	8.71	9.88	---
TOTAL	323.79	310.12	307.75	305.64	286.48	288.47	263.05	---	239.10	256.52	290.66	303.01
MEAN	10.44	10.34	9.93	9.86	9.88	9.31	8.77	---	7.97	8.27	9.38	10.10
MAX	10.71	10.50	10.06	9.92	10.05	9.72	8.93	---	8.21	8.71	9.88	10.49
MIN	10.25	10.09	9.82	9.81	9.65	8.97	8.57	---	7.63	7.98	8.78	9.84

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289019 TAMiami CANAL AT S-12-B, NEAR MIAMI, FL-Continued

DOWNSTREAM  
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	10.71	10.34	10.08	8.85	8.15	7.99	7.80	7.63	7.00	7.47	7.98	9.32
2	10.68	10.35	10.06	8.79	8.09	7.98	7.78	7.66	6.97	7.48	8.02	9.60
3	10.65	10.35	10.03	8.74	8.07	7.97	7.76	7.86	6.94	7.55	8.11	9.89
4	10.63	10.42	10.01	8.71	8.05	7.96	7.74	7.93	6.97	7.65	8.10	9.89
5	10.61	10.50	10.00	8.69	8.04	7.95	7.73	7.86	7.08	7.70	8.01	9.86
6	10.59	10.51	10.04	8.68	8.04	7.95	7.71	7.82	7.10	7.77	7.97	9.91
7	10.57	10.51	10.01	8.63	8.03	7.95	7.70	7.78	7.08	7.70	7.96	9.95
8	10.56	10.51	9.98	8.50	8.02	7.93	7.68	7.74	7.07	7.66	7.94	9.96
9	10.54	10.51	9.96	8.41	8.02	7.92	7.67	7.71	7.09	7.61	7.92	9.98
10	10.52	10.51	9.95	8.35	8.01	7.92	7.65	7.69	7.19	7.65	8.00	9.99
11	10.51	10.49	9.96	8.29	8.01	7.91	7.64	7.66	7.22	7.86	8.27	10.01
12	10.51	10.48	9.94	8.24	8.01	7.91	7.72	7.63	7.23	7.95	8.29	10.01
13	10.49	10.46	9.92	8.20	8.01	7.90	7.89	7.61	7.27	7.91	8.30	10.02
14	10.29	10.44	9.94	8.18	8.03	7.90	7.91	7.57	7.23	7.84	8.32	10.04
15	10.29	10.41	10.00	8.15	8.02	7.90	7.86	7.55	7.27	7.80	8.33	10.04
16	10.47	10.39	9.97	8.11	8.01	7.90	7.82	7.53	7.47	7.78	8.32	10.07
17	10.44	10.37	9.96	8.10	8.00	7.91	7.80	---	7.42	7.75	8.35	10.10
18	10.43	10.34	9.94	8.11	7.99	7.90	7.77	7.48	7.49	7.73	8.32	10.14
19	10.41	10.31	9.92	8.13	7.99	7.89	7.75	7.45	7.74	7.75	8.10	10.20
20	10.39	10.30	9.90	8.10	7.99	7.88	7.73	7.42	7.68	7.93	8.05	10.22
21	10.37	10.28	9.89	8.08	7.99	7.87	7.71	7.39	7.62	7.92	8.02	10.19
22	10.35	10.26	9.86	8.07	7.99	7.86	7.69	7.36	7.63	7.87	7.98	10.22
23	10.33	10.23	9.85	8.05	7.98	7.84	7.68	7.32	7.68	7.82	7.96	10.24
24	10.31	10.21	9.84	8.04	7.98	7.83	7.66	7.28	7.63	7.82	7.98	10.26
25	10.30	10.19	9.85	8.04	8.04	7.86	7.64	7.25	7.57	7.91	8.01	10.28
26	10.29	10.17	9.85	8.04	8.10	7.90	7.62	7.21	7.53	7.87	8.12	10.23
27	10.28	10.17	9.84	8.04	8.04	7.89	7.61	7.17	7.48	7.89	8.85	10.31
28	10.26	10.16	9.83	8.04	8.01	7.87	7.62	7.14	7.46	7.98	9.24	10.37
29	10.30	10.14	9.82	8.03	8.00	7.85	7.66	7.10	7.55	7.95	9.26	10.41
30	10.30	10.10	9.81	8.04	---	7.84	7.65	7.06	7.50	7.93	9.28	10.47
31	10.30	---	9.30	8.10	---	7.82	---	7.03	---	7.95	9.30	---
TOTAL	323.68	310.41	307.31	256.53	232.71	244.95	231.65	---	220.16	241.45	256.66	302.18
MEAN	10.44	10.35	9.91	8.28	8.02	7.90	7.72	---	7.34	7.79	8.28	10.07
MAX	10.71	10.51	10.08	8.85	8.15	7.99	7.91	---	7.74	7.98	9.30	10.47
MIN	10.26	10.10	9.30	8.03	7.98	7.82	7.61	---	6.94	7.47	7.92	9.32

02289019 TAMiami CANAL AT S-12-B, NEAR MIAMI, 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	670	424	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	230
2	655	426	352	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	291
3	638	423	342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	361
4	626	443	334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	360
5	615	472	328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	349
6	606	473	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	365
7	594	471	327	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	381
8	588	466	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	387
9	579	462	308	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	393
10	571	457	304	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	396
11	563	448	306	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	402
12	566	439	296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	405
13	556	427	291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	409
14	416	416	296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	415
15	418	403	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	416
16	540	393	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	425
17	526	382	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	432
18	514	371	291	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	450
19	500	366	286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	473
20	489	368	281	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	478
21	474	367	277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	466
22	461	364	286	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	478
23	449	362	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	486
24	440	360	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	490
25	432	359	296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500
26	427	359	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	478
27	419	364	296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	149	511
28	408	364	301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	220	539
29	420	363	280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	222	558
30	415	356	254	0.00	---	0.00	0.00	0.00	0.00	0.00	223	583
31	413	---	90	0.00	---	0.00	---	0.00	---	0.00	227	---
TOTAL	15,988	12,148	9,204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,041.00	12,907
MEAN	516	405	297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.6	430
MAX	670	473	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	227	583
MIN	408	356	90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	230
AC-FT	31,710	24,100	18,260	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,060	25,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	302	247	145	79.3	64.6	59.6	31.3	17.4	35.3	104	149	210
MEAN	302	247	145	79.3	64.6	59.6	31.3	17.4	35.3	104	149	210
MAX	930	1,032	1,232	1,160	681	424	338	192	311	519	550	605
(WY)	(1996)	(2000)	(1995)	(1995)	(1995)	(1995)	(1993)	(1993)	(1993)	(1982)	(1982)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1964 - 2004

ANNUAL TOTAL	66,636.00	51,288.00	
ANNUAL MEAN	183	140	128
HIGHEST ANNUAL MEAN			561
LOWEST ANNUAL MEAN			0.00
HIGHEST DAILY MEAN	689	Sep 30	1,380
LOWEST DAILY MEAN	0.00	Jan 1	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	-3.1
ANNUAL RUNOFF (AC-FT)	132,200		92,600
10 PERCENT EXCEEDS	477		388
50 PERCENT EXCEEDS	0.00		14
90 PERCENT EXCEEDS	0.00		0.00

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.