02289041 TAMIAMI CANAL BELOW S-12-C, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°43'34", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on west bank of spillway, 100 ft southwest of control structure 12-C, and 33 mi west of Miami. No section could be determined from existing maps.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to September 1963, October 1965 to September 1976 (gage heights only), October 1963 to September 1965, October 1976 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.--Records fair except for estimated daily discharges, which are poor. Daily mean for upstream gage height published under 02289040. Station is one of several located downstream from the control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-C. Discharge is the total discharge through the S-12-C structure, from Conservation Area 3A. The daily 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. Since March 16, 1990, data collection platform. Discharge records prior to 1976, for missing periods were fragmentary or missing from the files of the U.S. Geological Survey.

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

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1964-65, 1977-2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.86 ft Dec. 21, 1994; minimum, 4.87 ft June 19, 20, 1989.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.75 ft Oct. 1; minimum, 6.93 ft June 3.

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	10.74	10.32	10.07	9.75	8.17	8.00	7.83	7.64	7.00	7.47	8.02	9.15
2	10.71	10.34	10.05	9.64	8.11	8.00	7.80	7.68	6.97	7.47	8.05	9.54
3	10.68	10.34	10.03	9.56	8.09	7.99	7.78	7.89	6.94	7.56	8.13	9.89
4	10.66	10.41	10.00	9.54	8.07	7.98	7.77	7.96	6.99	7.65	8.12	9.91
5	10.64	10.49	9.99	9.54	8.05	7.97	7.75	7.89	7.09	---	8.04	9.88
6	10.62	10.51	10.03	9.53	8.05	7.97	7.73	7.83	7.10	---	8.01	9.91
7	10.60	10.51	10.00	9.15	8.05	7.97	7.71	7.79	7.08	---	8.00	9.96
8	10.59	10.50	9.98	8.59	8.04	7.96	7.70	7.75	7.07	---	7.99	9.99
9	10.57	10.50	9.95	8.46	8.04	7.95	7.69	7.72	7.10	7.60	7.96	10.00
10	10.56	10.49	9.95	8.38	8.04	7.94	7.67	7.70	7.18	7.64	8.35	10.02
11	10.54	10.48	9.96	8.31	8.03	7.93	7.66	7.67	7.22	7.86	8.74	10.03
12	10.55	10.46	9.94	8.26	8.03	7.93	7.75	7.64	7.23	7.91	8.75	10.04
13	10.53	10.45	9.93	8.23	8.04	7.92	7.91	7.62	7.26	7.90	8.75	10.05
14	10.24	10.42	9.94	8.20	8.05	7.92	7.94	7.58	7.23	7.83	8.77	10.07
15	10.35	10.39	9.99	8.17	8.04	7.92	7.88	7.55	7.29	7.78	8.81	10.07
16	10.50	10.37	9.97	8.13	8.04	7.92	7.84	7.53	7.48	7.75	8.81	10.09
17	10.47	10.35	9.96	8.11	8.03	7.92	7.82	---	7.42	7.72	---	10.12
18	10.46	10.32	9.94	8.13	8.01	7.92	7.79	7.48	7.48	7.70	---	10.16
19	10.44	10.30	9.93	8.15	8.01	7.91	7.76	7.46	7.74	7.72	---	10.22
20	10.42	10.28	9.91	8.11	8.01	7.89	7.75	7.42	7.68	7.93	8.07	10.24
21	10.40	10.26	9.90	8.09	8.01	7.89	7.72	7.39	7.62	7.93	8.03	10.22
22	10.39	10.24	9.89	8.08	8.00	7.88	7.70	7.36	7.61	7.88	7.99	10.25
23	10.37	10.22	9.83	8.07	8.00	7.86	7.69	7.32	7.68	7.83	7.97	10.27
24	10.35	10.20	9.78	8.06	8.00	7.85	7.67	7.29	7.62	7.85	8.00	10.28
25	10.34	10.18	9.79	8.06	8.07	7.88	7.65	7.25	7.57	7.93	8.02	10.31
26	10.33	10.17	9.79	8.06	8.12	7.92	7.64	7.21	7.52	7.88	8.63	10.28
27	10.31	10.17	9.78	8.06	8.06	7.90	7.63	7.18	7.46	7.93	9.11	10.34
28	10.30	10.15	9.77	8.05	8.03	7.88	7.63	7.14	7.46	8.02	9.08	10.40
29	10.33	10.13	9.76	8.04	8.01	7.87	7.68	7.10	7.54	7.98	9.10	10.45
30	10.33	10.09	9.75	8.05	---	7.86	7.67	7.06	7.49	7.96	9.12	10.51
31	10.30	---	9.75	8.13	---	7.84	---	7.03	---	7.98	9.14	---
TOTAL	324.62	310.04	307.31	262.69	233.30	245.54	232.21	---	220.12	---	---	302.65
MEAN	10.47	10.33	9.91	8.47	8.04	7.92	7.74	---	7.34	---	---	10.09
MAX	10.74	10.51	10.07	9.75	8.17	8.00	7.94	---	7.74	---	---	10.51
MIN	10.24	10.09	9.75	8.04	8.00	7.84	7.63	---	6.94	---	---	9.15

02289041 TAMIAMI CANAL BELOW S-12-C, 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	1,280	889	712	566	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419
2	1,250	895	703	524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	567
3	1,230	896	687	514	0.00	0.00	0.00	0.00	0.00	0.00	0.00	703
4	1,210	929	671	519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	712
5	1,200	973	663	519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	698
6	1,190	983	671	524	0.00	0.00	0.00	0.00	0.00	0.00	0.00	713
7	1,170	979	654	251	0.00	0.00	0.00	0.00	0.00	0.00	0.00	737
8	1,160	972	639	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	750
9	1,150	968	623	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	759
10	1,140	962	616	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162	768
11	1,130	948	615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	221	777
12	1,130	935	602	0.00	0.00	0.00	0.00	0.00	0.00	0.00	218	780
13	1,120	924	592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	213	785
14	e741	909	594	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219	798
15	e824	891	610	0.00	0.00	0.00	0.00	0.00	0.00	0.00	226	800
16	e1,050	878	597	0.00	0.00	0.00	0.00	0.00	0.00	0.00	229	819
17	e1,030	863	592	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e233	838
18	1,020	846	584	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	868
19	1,000	831	578	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	904
20	983	823	570	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	918
21	968	811	565	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	914
22	953	797	562	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	936
23	938	784	541	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	956
24	926	775	538	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	971
25	918	765	549	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	998
26	911	762	547	0.00	0.00	0.00	0.00	0.00	0.00	0.00	353	986
27	899	763	550	0.00	0.00	0.00	0.00	0.00	0.00	0.00	595	1,030
28	886	753	536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	670	1,080
29	904	738	535	0.00	0.00	0.00	0.00	0.00	0.00	0.00	675	1,120
30	898	723	533	0.00	---	0.00	0.00	0.00	0.00	0.00	503	1,170
31	882	---	547	0.00	---	0.00	---	0.00	---	0.00	414	---
TOTAL	32,091	25,965	18,576	3,417.00	0.00	0.00	0.00	0.00	0.00	0.00	---	25,274
MEAN	1,035	866	599	110	0.00	0.00	0.00	0.00	0.00	0.00	---	842
MAX	1,280	983	712	566	0.00	0.00	0.00	0.00	0.00	0.00	---	1,170
MIN	741	723	533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	419
AC-FT	63,650	51,500	36,850	6,780	0.00	0.00	0.00	0.00	0.00	0.00	---	50,130

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

MEAN	521	468	294	205	155	141	82.7	52.3	88.6	257	329	414
MAX	1,385	1,542	1,752	1,677	1,174	789	537	366	431	948	855	1,136
(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	WATER YEARS 1964 - 2004	
ANNUAL MEAN	262	
HIGHEST ANNUAL MEAN	919	1995
LOWEST ANNUAL MEAN	0.00	1964
HIGHEST DAILY MEAN	2,500	Jan 23, 1970
LOWEST DAILY MEAN	-49	Jul 14, 1990
ANNUAL SEVEN-DAY MINIMUM	-9.7	Jul 8, 1990
ANNUAL RUNOFF (AC-FT)	189,600	
10 PERCENT EXCEEDS	714	
50 PERCENT EXCEEDS	101	
90 PERCENT EXCEEDS	0.00	

e Estimated

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.