

02289050 TAMAMI CANAL AT S-333 NEAR MIAMI, FL

LOCATION.--Lat 25°45'39", long 80°40'27", in SW ¼ sec.6, T.54 S., R.37 E., Miami-Dade County, Hydrologic Unit 03090202, on south bank of Levee 29 in control house of control structure 333 at Levee 67A, 100 ft north of U.S. Highway 41 and 29 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1978 to September 1981 (gage heights only), October 1981 to September 2004. Discontinued.

REVISED RECORDS.--WDR FL-87-2A, 1986.

GAGE.--Water-stage shaft encoders for upstream and downstream, and gate-opening recorder with cellular phone/radio telemetry. Water-stage recorders prior to September 1, 1999. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good except for estimated discharges, which are poor. Flow is regulated by operation of control structure 333. Discharge computed from relations between discharge, head, and gate opening. Records prior to October 1981, are available in files of the South Florida Water Management District.

COOPERATION.--Control structure S-333 gate-operation records and upstream and downstream data provided by South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 21 complete water years of discharge (1982-2001, 2004).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.10 ft Dec. 21, 1994; minimum, 5.20 ft June 19, 1989 (estimated).

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 10.96 ft Oct. 1; minimum, 7.57 ft June 30.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 7.84 ft Oct. 1; minimum, 6.35 ft June 4, 28.

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	10.95	10.50	10.16	9.93	10.08	9.69	8.93	8.52	7.72	8.05	8.84	10.04
2	10.93	10.50	10.14	9.92	10.09	9.66	8.91	8.49	7.69	8.08	8.95	10.04
3	10.91	10.50	10.11	9.92	10.08	9.63	8.88	8.55	7.64	8.10	9.08	10.03
4	10.89	10.53	10.09	9.91	10.08	9.59	8.85	8.76	7.88	8.15	9.13	10.07
5	10.87	10.61	10.07	9.90	10.04	9.53	8.82	8.76	7.92	8.18	9.16	10.05
6	10.85	10.66	10.10	9.89	10.01	9.50	8.79	8.74	7.91	8.22	---	10.10
7	10.83	10.66	10.08	9.92	10.02	9.48	8.76	8.69	7.90	8.21	---	10.17
8	10.82	10.66	10.06	9.92	10.03	9.45	8.71	8.65	8.08	8.21	9.25	10.22
9	10.82	10.65	10.03	9.91	9.99	9.41	8.69	8.63	8.14	8.19	9.27	10.26
10	10.82	10.65	10.03	9.92	9.97	9.38	8.68	8.59	8.16	8.18	9.28	10.26
11	10.81	10.63	10.04	9.94	9.94	9.35	8.70	8.54	8.23	8.26	9.26	10.28
12	10.81	10.60	10.03	9.91	9.91	9.30	8.72	8.51	8.17	8.30	9.26	10.28
13	10.78	10.57	10.01	9.90	9.90	9.27	8.82	8.49	8.09	8.21	9.25	10.29
14	10.79	10.55	10.02	9.89	9.87	9.22	8.91	8.45	8.01	8.10	9.31	10.30
15	10.78	10.52	10.08	9.88	9.86	9.19	8.91	8.42	8.10	8.05	9.38	10.31
16	10.75	10.50	10.06	---	9.87	9.12	8.91	8.41	8.16	8.14	9.40	10.34
17	10.73	10.47	10.05	---	9.85	9.15	8.89	8.37	8.07	8.22	9.46	10.37
18	10.72	10.43	10.03	9.88	9.84	9.17	8.87	8.34	8.13	8.23	9.50	10.41
19	10.71	10.40	10.02	9.94	9.79	9.17	8.86	8.30	8.04	8.27	9.52	10.46
20	10.69	10.39	10.00	9.94	9.75	9.16	8.82	8.27	8.10	8.42	9.56	10.48
21	10.67	10.37	9.99	9.93	9.73	9.15	8.79	8.22	8.14	8.49	9.60	10.47
22	10.65	10.35	9.98	9.92	9.70	9.13	8.77	8.13	8.16	8.50	9.64	10.50
23	10.63	10.32	9.97	---	9.67	9.12	8.75	8.06	8.17	8.52	9.67	10.54
24	10.61	10.30	9.98	---	9.61	9.10	8.72	8.00	8.03	8.53	9.72	10.56
25	10.60	10.28	10.00	9.87	9.65	9.09	8.69	7.94	7.94	8.57	9.79	10.59
26	10.59	10.28	10.00	9.85	---	---	8.66	7.92	7.88	8.59	9.84	10.56
27	10.57	10.31	9.98	9.84	9.76	---	8.63	7.90	7.78	8.63	9.88	10.64
28	10.55	10.26	9.96	9.87	9.76	9.05	8.61	7.87	7.71	8.68	9.92	10.71
29	10.58	10.22	9.94	9.85	9.73	9.02	8.60	7.83	7.70	8.71	9.95	10.78
30	10.56	10.19	9.92	9.85	---	9.00	8.56	7.78	7.77	8.73	9.97	10.84
31	10.51	---	9.93	9.95	---	8.95	---	7.75	---	8.75	10.01	---
TOTAL	332.78	313.86	310.86	---	---	---	263.21	257.88	239.42	258.47	---	310.95
MEAN	10.73	10.46	10.03	---	---	---	8.77	8.32	7.98	8.34	---	10.37
MAX	10.95	10.66	10.16	---	---	---	8.93	8.76	8.23	8.75	---	10.84
MIN	10.51	10.19	9.92	---	---	---	8.56	7.75	7.64	8.05	---	10.03

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289050 TAMIAMI CANAL AT S-333 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	7.83	7.46	7.34	7.11	7.33	7.72	7.16	6.94	6.48	6.47	6.73	6.98
2	7.81	7.44	7.34	7.15	7.30	7.71	7.16	6.91	6.46	6.45	6.76	6.96
3	7.79	7.45	7.34	7.20	7.28	7.71	7.15	7.01	6.43	6.45	6.84	6.92
4	7.77	7.47	7.33	7.20	7.28	7.72	7.13	7.19	6.45	6.48	6.85	6.79
5	7.76	7.54	7.30	7.19	7.35	7.73	7.13	7.15	6.54	6.50	6.86	7.03
6	7.75	7.61	7.30	7.18	7.38	7.66	7.13	7.11	6.52	6.53	---	7.16
7	7.73	7.61	7.29	7.17	7.38	7.65	7.12	7.08	6.51	6.53	---	7.16
8	7.70	7.62	7.28	7.18	7.39	7.65	7.09	7.05	6.52	6.59	6.93	7.18
9	7.68	7.62	7.29	7.16	7.38	7.64	7.08	7.03	6.52	6.56	6.95	7.21
10	7.66	7.61	7.23	7.16	7.43	7.64	7.08	7.01	6.53	6.54	6.94	7.20
11	7.65	7.60	7.24	7.15	7.50	7.64	7.10	7.10	6.54	6.56	6.92	7.17
12	7.65	7.58	7.24	7.15	7.49	7.62	7.10	7.02	6.56	6.57	6.90	7.16
13	7.64	7.55	7.24	7.14	7.50	7.62	7.13	6.99	6.59	6.58	6.91	7.14
14	7.61	7.54	7.26	7.13	7.50	7.62	7.15	6.96	6.56	6.56	6.90	7.14
15	7.61	7.52	7.31	7.13	7.51	7.64	7.15	6.94	6.55	6.55	6.91	7.12
16	7.60	7.51	7.30	---	7.52	7.64	7.15	6.93	6.55	6.56	6.92	7.09
17	7.57	7.50	7.28	---	7.51	7.57	7.15	6.93	6.53	6.57	6.93	7.06
18	7.55	7.50	7.28	7.14	7.58	7.52	7.14	6.92	6.52	6.54	7.05	7.05
19	7.54	7.48	7.27	7.18	7.64	7.43	7.13	6.90	6.53	6.54	7.14	7.04
20	7.52	7.47	7.26	7.17	7.64	7.36	7.12	6.88	6.52	6.56	7.16	7.10
21	7.51	7.45	7.25	7.15	7.64	7.30	7.11	6.87	6.54	6.56	7.18	7.28
22	7.49	7.43	7.25	7.14	7.64	7.28	7.05	6.85	6.60	6.55	7.19	7.34
23	7.48	7.42	7.25	---	7.64	7.28	6.99	6.83	6.62	6.55	7.20	7.36
24	7.48	7.40	7.19	---	7.63	7.27	6.97	6.81	6.59	6.54	7.20	7.35
25	7.47	7.39	7.17	7.13	7.68	7.28	6.95	6.78	6.56	6.56	7.22	7.31
26	7.46	7.37	7.17	7.12	---	---	6.93	6.71	6.54	6.59	7.15	7.41
27	7.43	7.35	7.17	7.10	7.72	---	6.89	6.59	6.52	6.67	7.05	7.40
28	7.41	7.36	7.17	7.10	7.71	7.24	6.92	6.56	6.48	6.71	7.04	7.33
29	7.44	7.38	7.16	7.10	7.72	7.22	6.95	6.53	6.50	6.71	7.01	7.35
30	7.47	7.35	7.14	7.10	---	7.20	6.93	6.51	6.49	6.71	6.99	7.35
31	7.49	---	7.12	7.16	---	7.18	---	6.50	---	6.69	6.97	---
TOTAL	235.55	224.58	224.76	---	---	---	212.24	213.59	195.85	203.53	---	215.14
MEAN	7.60	7.49	7.25	---	---	---	7.07	6.89	6.53	6.57	---	7.17
MAX	7.83	7.62	7.34	---	---	---	7.16	7.19	6.62	6.71	---	7.41
MIN	7.41	7.35	7.12	---	---	---	6.89	6.50	6.43	6.45	---	6.79

02289050 TAMiami CANAL AT S-333 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	0.00	360	526	0.00	68	620	210	93	0.00	0.00	0.00	0.00
2	0.00	361	524	52	69	618	206	93	0.00	0.00	0.00	0.00
3	0.00	361	522	79	69	614	205	93	0.00	0.00	0.00	0.00
4	0.00	361	520	79	69	664	203	93	0.00	0.00	0.00	0.00
5	0.00	236	522	78	204	694	202	93	0.00	0.00	0.00	0.00
6	0.00	79	524	79	283	702	199	92	0.00	0.00	0.00	0.00
7	0.00	78	524	79	284	698	197	92	0.00	0.00	0.00	0.00
8	0.00	77	522	79	283	694	196	92	0.00	0.00	0.00	0.00
9	0.00	77	519	79	282	685	194	91	0.00	0.00	0.00	0.00
10	0.00	119	414	78	380	679	192	91	0.00	0.00	0.00	0.00
11	0.00	163	406	77	461	673	193	194	0.00	0.00	0.00	0.00
12	0.00	240	405	77	458	668	203	111	0.00	0.00	0.00	0.00
13	0.00	334	404	77	457	660	214	100	0.00	0.00	0.00	0.00
14	0.00	334	403	77	453	652	217	92	0.00	0.00	0.00	0.00
15	0.00	333	403	77	452	642	215	92	0.00	0.00	0.00	0.00
16	0.00	333	402	e77	452	627	213	92	0.00	0.00	0.00	0.00
17	0.00	308	404	76	449	494	213	85	0.00	0.00	0.00	0.00
18	0.00	278	399	76	577	421	212	73	0.00	0.00	161	0.00
19	0.00	278	396	77	650	309	211	72	0.00	0.00	246	0.00
20	0.00	278	395	77	645	228	210	72	0.00	0.00	242	120
21	0.00	278	395	77	643	230	207	71	0.00	0.00	242	288
22	0.00	277	364	77	639	228	148	69	0.00	0.00	243	286
23	0.00	277	315	e77	633	224	115	68	0.00	0.00	242	288
24	0.00	277	129	e77	626	222	112	66	0.00	0.00	245	290
25	0.00	276	0.00	74	623	221	110	66	0.00	0.00	247	292
26	0.00	163	37	74	e633	e222	108	27	0.00	0.00	105	287
27	0.00	0.00	56	72	634	219	106	0.00	0.00	0.00	0.00	163
28	0.00	386	56	71	632	219	103	0.00	0.00	0.00	0.00	0.00
29	0.00	528	56	69	626	218	99	0.00	0.00	0.00	0.00	0.00
30	176	527	56	69	---	216	98	0.00	0.00	0.00	0.00	0.00
31	359	---	30	69	---	214	---	0.00	---	0.00	0.00	---
TOTAL	535.00	7,977.00	10,628.00	2,256.00	12,734	14,475	5,311	2,273.00	0.00	0.00	1,973.00	2,014.00
MEAN	17.3	266	343	72.8	439	467	177	73.3	0.00	0.00	63.6	67.1
MAX	359	528	526	79	650	702	217	194	0.00	0.00	247	292
MIN	0.00	0.00	0.00	0.00	68	214	98	0.00	0.00	0.00	0.00	0.00
AC-FT	1,060	15,820	21,080	4,470	25,260	28,710	10,530	4,510	0.00	0.00	3,910	3,990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	188	220	194	169	282	303	365	301	131	208	317	174												
MAX	739	689	693	734	1,094	1,051	936	1,208	346	733	1,188	655												
(WY)	(1986)	(1985)	(1993)	(2003)	(2000)	(2002)	(1998)	(1985)	(1985)	(1986)	(2001)	(1991)												
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)	(1982)	(1982)	(1982)	(1982)	(1982)	(1982)	(1989)	(1982)	(1982)	(1983)	(1987)	(1994)												

SUMMARY STATISTICS

	FOR 2004 WATER YEAR	WATER YEARS 1982 - 2004
ANNUAL TOTAL	60,176.00	
ANNUAL MEAN	164	234
HIGHEST ANNUAL MEAN		572
LOWEST ANNUAL MEAN		51.8
HIGHEST DAILY MEAN	702	1,670
LOWEST DAILY MEAN	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00
ANNUAL RUNOFF (AC-FT)	119,400	169,600
10 PERCENT EXCEEDS	522	696
50 PERCENT EXCEEDS	77	122
90 PERCENT EXCEEDS	0.00	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.