

02289060 TAMAMI CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°33'40", in SE 1/4 sec.6, T.54 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, on south bank of Levee 29, 50 ft west of bridge 53 on U.S. Highway 41, and 22.8 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge), October 1963 to current year. October 1962 to September 1963, stage only (twice monthly) published as Tamiami Canal at bridge 45, near Miami (auxiliary). Stage records prior to October 1962, are available in files of the U.S. Geological Survey. Prior to October 1963, daily discharge for this portion of the canal was published as part of the total daily discharge of station, Tamiami Canal Outlets, Miami to Monroe (station 02289000).

REVISED RECORDS.--WDR FL-2000-2A, 1998-99.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to August 27, 1942, non-recording gage at datum 0.80 ft lower; August 27, 1942 to February 21, 1952, non-recording gage at present datum; and February 21, 1952 to August 7, 1969, water-stage recorder at same datum, all at site 4 mi to the west.

REMARKS.--Records poor. Figures of daily discharge consist of seepage through levee 29 from Conservation Area 3B and discharges from S-333 distributed along Levee 29 from Conservation Area 3A as represented by flow through all the outlets of Tamiami Canal from levee 30 to levee 67A (Bridges 45-59). Flow releases from S-334 were observed during portions of the water year. The discharge from S-334 are not included in the table of mean daily discharge for this station.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 156 ft³/s, 166,600 acre-ft/yr. Figures represent 63 complete water years of discharge (1941-2004). Monthly discharge only, available 1941-1963 water years.

SPECIAL NOTE: Statistics for the period of record 1941-2004 computed manually. NWIS database not complete.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 9.76 ft Nov. 1, 1960; minimum, 1.66 ft May 13, 14, 1971.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.93 ft Oct. 1; minimum, 6.53 ft June 4.

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	7.93	7.51	7.38	7.21	7.43	7.78	7.30	7.04	6.60	6.63	6.88	7.09
2	7.91	7.50	7.37	7.25	7.41	7.78	7.28	7.02	6.58	6.61	6.92	7.07
3	7.89	7.51	7.36	7.29	7.39	7.77	7.27	7.13	6.55	6.61	6.99	7.05
4	7.87	7.53	7.36	7.30	7.37	7.79	7.26	7.32	6.59	6.64	7.01	7.04
5	7.86	7.60	7.35	7.30	7.42	7.80	7.24	7.26	6.69	6.66	7.01	7.19
6	7.83	7.68	7.35	7.30	7.48	7.75	7.23	7.22	6.67	6.69	7.04	7.28
7	7.82	7.69	7.34	7.29	7.49	7.75	7.22	7.18	6.66	6.69	7.05	7.28
8	7.80	7.69	7.33	7.28	7.48	7.74	7.22	7.16	6.66	6.75	7.08	7.30
9	7.78	7.70	7.33	7.28	7.48	7.73	7.21	7.13	6.66	6.71	7.09	7.32
10	7.76	7.68	7.29	7.28	7.52	7.72	7.20	7.11	6.68	6.70	7.08	7.30
11	7.75	7.66	7.32	7.27	7.59	7.71	7.20	7.18	6.68	6.72	7.07	7.28
12	7.76	7.64	7.31	7.26	7.60	7.70	7.21	7.11	6.71	6.73	7.05	7.26
13	7.74	7.62	7.31	7.26	7.60	7.69	7.27	7.07	6.73	6.74	7.05	7.23
14	7.73	7.59	7.33	7.26	7.61	7.68	7.28	7.05	6.71	6.72	7.04	7.22
15	7.70	7.58	7.37	7.25	7.62	7.71	7.27	7.03	6.70	6.71	7.05	7.22
16	7.68	7.56	7.36	7.24	7.61	7.74	7.25	7.02	6.68	6.72	7.06	7.21
17	7.67	7.54	7.36	7.24	7.61	7.68	7.24	7.01	6.67	6.73	7.06	7.19
18	7.66	7.53	7.35	7.26	7.67	7.61	7.23	6.99	6.67	6.73	7.18	7.17
19	7.64	7.53	7.34	7.30	7.72	7.53	7.22	6.98	6.68	6.71	7.28	7.16
20	7.62	7.51	7.33	7.29	7.73	7.44	7.22	6.96	6.68	6.72	7.29	7.22
21	7.61	7.49	7.31	7.28	7.74	7.42	7.21	6.95	6.69	6.71	7.31	7.37
22	7.60	7.47	7.32	7.27	7.74	7.40	7.15	6.94	6.75	6.70	7.32	7.42
23	7.58	7.46	7.33	7.25	7.74	7.37	7.09	6.92	6.76	6.70	7.33	7.45
24	7.56	7.45	7.29	7.24	7.74	7.35	7.07	6.91	6.73	6.70	7.34	7.45
25	7.55	7.44	7.28	7.24	7.77	7.36	7.05	6.89	6.71	6.72	7.35	7.47
26	7.53	7.43	7.27	7.23	7.83	7.36	7.04	6.83	6.68	6.75	7.28	7.54
27	7.52	7.43	7.27	7.23	7.81	7.35	7.03	6.72	6.66	6.82	7.19	7.51
28	7.51	7.43	7.26	7.21	7.79	7.34	7.03	6.68	6.64	6.85	7.18	7.44
29	7.54	7.40	7.25	7.20	7.79	7.33	7.04	6.66	6.64	6.86	7.15	7.45
30	7.53	7.39	7.24	7.20	---	7.33	7.03	6.64	6.64	6.85	7.12	7.45
31	7.53	---	7.23	7.26	---	7.32	---	6.62	---	6.85	7.10	---
TOTAL	238.46	226.24	226.89	225.02	220.78	235.03	215.56	216.73	200.15	208.43	220.95	218.63
MEAN	7.69	7.54	7.32	7.26	7.61	7.58	7.19	6.99	6.67	6.72	7.13	7.29
MAX	7.93	7.70	7.38	7.30	7.83	7.80	7.30	7.32	6.76	6.86	7.35	7.54
MIN	7.51	7.39	7.23	7.20	7.37	7.32	7.03	6.62	6.55	6.61	6.88	7.04

02289060 TAMiami CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, 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	99	74	74	66	181	705	257	148	11	16	46	39
2	99	73	76	77	171	685	246	141	9.9	14	61	36
3	99	73	78	97	163	679	244	187	8.8	14	92	32
4	101	79	78	109	156	700	240	177	12	17	97	31
5	102	97	78	120	189	708	231	147	18	19	98	55
6	102	119	78	131	234	654	226	134	17	21	78	72
7	104	121	78	129	252	650	224	126	17	22	51	71
8	104	118	79	127	260	636	222	121	17	27	56	75
9	105	117	79	128	275	634	218	117	18	23	59	81
10	107	110	74	126	324	625	218	113	19	22	58	76
11	113	100	81	122	397	611	217	146	20	23	54	69
12	121	92	82	121	426	603	226	120	24	25	51	64
13	124	84	83	120	449	591	259	112	26	25	51	58
14	126	78	92	118	475	586	270	108	24	23	49	55
15	124	71	103	117	509	611	261	106	24	23	51	55
16	116	67	104	114	533	653	254	106	22	24	54	52
17	112	61	103	112	559	582	247	107	21	25	54	49
18	109	58	101	122	645	505	242	104	21	24	81	46
19	103	60	97	135	717	438	237	100	21	23	107	44
20	100	60	94	129	730	361	233	96	21	23	111	58
21	94	60	90	125	737	344	228	93	22	23	116	90
22	91	61	93	123	739	329	199	89	28	22	121	106
23	87	62	94	118	738	312	169	85	29	22	123	114
24	81	63	84	111	736	294	161	81	26	21	125	113
25	80	64	82	109	784	294	155	78	24	24	130	121
26	78	67	80	106	838	297	148	62	21	28	108	144
27	75	71	79	106	793	291	144	37	19	36	75	135
28	72	74	77	101	755	286	143	29	17	41	68	103
29	80	71	74	97	733	279	149	23	17	41	59	99
30	75	72	72	97	---	274	146	18	16	40	50	92
31	76	---	69	116	---	269	---	14	---	40	43	---
TOTAL	3,059	2,377	2,606	3,529	14,498	15,486	6,414	3,125	590.7	771	2,377	2,235
MEAN	98.7	79.2	84.1	114	500	500	214	101	19.7	24.9	76.7	74.5
MAX	126	121	104	135	838	708	270	187	29	41	130	144
MIN	72	58	69	66	156	269	143	14	8.8	14	43	31
AC-FT	6,070	4,710	5,170	7,000	28,760	30,720	12,720	6,200	1,170	1,530	4,710	4,430

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

MEAN	203	209	165	135	177	175	169	138	105	165	247	187
MAX	763	624	785	725	976	979	914	784	550	828	1,230	694
(WY)	(1993)	(1986)	(1993)	(2003)	(1993)	(1993)	(1993)	(1993)	(1995)	(1986)	(2001)	(1991)
MIN	48.0	46.9	23.4	1.99	0.90	0.00	-0.77	-2.61	-0.37	-0.55	1.58	18.0
(WY)	(1981)	(1972)	(1974)	(1990)	(1990)	(1974)	(1964)	(1964)	(1965)	(1965)	(1965)	(1989)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1964 - 2004*

ANNUAL TOTAL	84,886	57,067.7	
ANNUAL MEAN	233	156	173
HIGHEST ANNUAL MEAN			660
LOWEST ANNUAL MEAN			28.3
HIGHEST DAILY MEAN	871	Jan 9	1,780
LOWEST DAILY MEAN	57	Jun 19	-7.0
ANNUAL SEVEN-DAY MINIMUM	60	Nov 17	-5.9
MAXIMUM PEAK FLOW			1,780
MAXIMUM PEAK STAGE			7.93
INSTANTANEOUS LOW FLOW			8.1
ANNUAL RUNOFF (AC-FT)	168,400	113,200	125,300
10 PERCENT EXCEEDS	608	430	477
50 PERCENT EXCEEDS	133	97	92
90 PERCENT EXCEEDS	75	23	2.0

* The period of record statistics were computed from complete water year's of record stored in the NWIS database. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript for the statistics for the complete period of record (1941-2004).