

02289040 TAMAMIAMI CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

LOCATION.--Lat 25°45'22", long 80°43'34", T.54 S., R.36 E., Miami-Dade County, Hydrologic Unit 03090202, on south bank of Levee 29 Borrow Canal, 100 ft northwest 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.--November 1939 to September 1963 (monthly discharge), October 1963 to September 2004. Discontinued.

REVISED RECORDS.--WDR FL-87-2A, 1986; WDR FL-89-2A, 1983.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge is the total discharge through the S-12 structures A, B, C, and D from Conservation Area 3A. Prior to October 1963 discharge was the total discharge of station, Tamiami Canal Outlets, Miami to Monroe (station 02289000). 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. Satellite data collection platform at S-12-C downstream that records upstream and downstream gages.

COOPERATION.--Gate-opening records for S-12 complex provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 581 ft³/s, 420,900 acre-ft/yr. Figures represent 60 complete water years of discharge (1941-97,1999-2001). Monthly discharge only, available 1941-63 water years.
SPECIAL NOTE: Statistics for the period of record 1941-2001 computed manually. NWIS database not complete.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.87 ft Dec. 21, 1994; minimum, 5.17 ft June 19, 1989.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 10.76 ft Oct. 1; minimum, 7.65 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	10.75	10.35	10.08	9.85	---	9.73	8.98	8.57	7.76	8.10	---	9.98
2	10.72	10.36	10.05	9.86	---	9.71	8.95	8.53	7.73	8.12	---	9.95
3	10.69	10.36	10.03	9.86	---	9.68	8.92	8.59	7.68	8.12	9.08	9.91
4	10.67	10.41	10.01	9.86	10.08	9.65	8.89	8.80	7.93	8.16	9.13	9.93
5	10.65	10.49	10.00	9.85	10.06	9.60	8.86	8.80	7.97	8.19	9.15	9.91
6	10.63	10.51	10.02	9.85	10.03	9.57	8.83	8.78	7.95	8.23	9.21	9.94
7	10.61	10.51	10.00	9.88	10.02	9.55	8.80	8.74	7.94	8.22	9.22	9.99
8	10.60	10.51	9.98	9.89	10.03	9.52	8.75	8.70	8.12	8.21	9.24	---
9	10.58	10.51	9.96	9.89	10.00	9.48	8.73	8.68	8.18	8.19	9.26	---
10	10.57	10.51	9.95	9.90	9.98	9.45	8.72	8.64	8.20	8.17	9.26	---
11	10.56	10.49	9.96	9.91	9.96	9.41	8.74	8.59	8.27	8.25	9.26	---
12	10.56	10.48	9.94	9.89	9.93	9.37	8.76	8.56	8.20	8.31	9.25	---
13	10.54	10.45	9.93	9.88	9.92	9.33	8.86	8.53	8.13	8.22	9.23	10.08
14	10.57	10.43	9.95	9.87	9.90	9.30	8.94	8.50	8.05	8.11	9.28	10.09
15	10.58	10.41	10.00	9.86	9.89	9.26	8.94	8.46	8.14	8.05	9.35	10.10
16	10.52	10.38	9.97	9.86	9.89	9.21	8.94	8.45	8.20	8.14	9.37	10.12
17	10.49	10.36	9.96	9.85	9.88	9.21	8.93	---	8.12	8.22	---	10.16
18	10.48	10.33	9.94	9.86	9.87	9.22	8.91	8.38	8.17	8.23	---	10.20
19	10.46	10.31	9.93	9.93	9.82	9.21	8.89	8.34	8.08	8.27	---	10.26
20	10.44	10.29	9.91	9.93	9.79	9.20	8.86	8.31	8.14	8.37	9.54	10.28
21	10.42	---	9.89	9.92	9.76	9.19	8.82	8.26	8.19	8.43	9.57	10.26
22	10.40	---	9.88	9.90	9.73	9.17	8.81	8.17	8.21	8.44	9.61	10.29
23	10.38	---	9.88	9.90	9.71	9.16	8.79	8.10	8.21	8.46	9.66	10.31
24	10.36	---	9.88	9.88	9.66	9.14	8.76	8.04	8.08	8.46	9.71	10.32
25	10.35	---	9.89	9.86	9.70	9.13	8.73	7.99	7.99	8.51	9.76	10.35
26	10.35	---	9.89	9.84	9.80	9.14	8.70	7.96	7.93	8.53	9.79	10.33
27	10.33	---	9.88	9.83	9.80	9.11	8.67	7.94	7.83	8.56	9.80	10.39
28	10.31	---	9.86	9.85	9.80	9.09	8.66	7.91	7.76	8.57	9.84	10.45
29	10.34	10.13	9.85	9.84	9.77	9.06	8.65	7.87	7.74	8.57	9.87	10.50
30	10.34	10.10	9.84	9.85	---	9.04	8.60	7.82	7.81	8.59	9.90	10.56
31	10.32	---	9.84	9.94	---	9.01	---	7.79	---	---	9.94	---
TOTAL	325.57	---	308.15	306.14	---	288.90	264.39	---	240.71	---	---	---
MEAN	10.50	---	9.94	9.88	---	9.32	8.81	---	8.02	---	---	---
MAX	10.75	---	10.08	9.94	---	9.73	8.98	---	8.27	---	---	---
MIN	10.31	---	9.84	9.83	---	9.01	8.60	---	7.68	---	---	---

02289040 TAMiami CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, 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	3,860	2,040	1,690	1,140	73	119	136	59	0.00	0.00	0.00	1,220
2	3,780	2,060	1,680	1,020	73	118	140	52	0.00	0.00	0.00	1,470
3	3,700	2,060	1,630	956	73	116	138	63	0.00	0.00	0.00	1,700
4	3,640	2,140	1,580	970	e73	114	e133	115	0.00	0.00	0.00	1,730
5	3,590	2,260	1,570	991	e72	139	129	116	0.00	0.00	0.00	1,690
6	3,550	2,320	1,600	993	72	154	124	107	0.00	0.00	0.00	1,750
7	3,490	2,310	1,560	653	72	152	138	96	0.00	0.00	0.00	2,010
8	3,460	2,300	1,520	332	72	150	133	85	0.00	0.00	0.00	2,180
9	3,420	2,300	1,480	335	71	146	115	84	0.00	0.00	0.00	2,220
10	3,370	2,280	1,470	339	71	143	106	74	0.00	0.00	306	2,250
11	3,350	2,250	1,480	342	70	190	109	62	0.00	0.00	411	2,280
12	3,350	2,210	1,440	338	105	217	125	56	0.00	0.00	407	2,290
13	3,300	2,170	1,420	335	130	209	---	52	0.00	0.00	393	2,310
14	e2,340	2,130	1,430	213	129	202	---	45	0.00	0.00	e402	2,340
15	e2,650	2,080	1,490	149	128	195	e135	42	0.00	0.00	---	2,360
16	e3,110	2,040	1,460	150	129	184	132	41	0.00	0.00	---	2,410
17	e3,050	2,000	1,440	150	128	187	130	40	0.00	0.00	---	2,470
18	3,020	1,960	1,420	150	127	190	125	30	0.00	0.00	---	2,560
19	2,970	1,920	1,400	155	124	191	123	26	0.00	0.00	e218	2,690
20	2,920	1,910	1,380	156	122	188	111	24	0.00	0.00	221	2,730
21	2,870	1,900	1,360	155	121	184	105	29	0.00	0.00	227	2,690
22	2,820	1,860	1,360	116	120	181	105	28	0.00	0.00	232	2,760
23	2,780	1,840	1,360	68	118	181	101	14	0.00	0.00	236	2,820
24	2,740	1,820	1,420	68	116	176	93	22	0.00	0.00	240	2,860
25	2,720	1,790	1,440	68	116	172	91	24	0.00	0.00	249	2,930
26	2,710	1,800	1,410	67	123	165	82	7.6	0.00	0.00	651	2,870
27	2,670	1,820	1,420	67	123	156	78	0.00	0.00	0.00	1,200	3,030
28	2,620	1,790	1,400	68	123	151	72	0.00	0.00	0.00	1,440	3,190
29	2,690	1,750	1,380	68	121	147	75	0.00	0.00	0.00	1,460	3,320
30	e2,670	1,710	1,340	68	---	143	64	0.00	0.00	0.00	1,290	3,470
31	e2,350	---	1,200	70	---	138	---	0.00	---	0.00	1,210	---
TOTAL	95,560	60,820	45,230	10,750	2,995	5,098	---	1,393.60	0.00	0.00	---	72,600
MEAN	3,083	2,027	1,459	347	103	164	---	45.0	0.00	0.00	---	2,420
MAX	3,860	2,320	1,690	1,140	130	217	116	0.00	0.00	---	3,470	---
MIN	2,340	1,710	1,200	67	70	114	0.00	0.00	0.00	---	1,220	---
AC-FT	189,500	120,600	89,710	21,320	5,940	10,110	---	2,760	0.00	0.00	---	144,000

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

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004							
MEAN	1,648	1,412	876	587	496	470	358	220	438	913	1,107	1,321																																				
MAX	5,310	5,715	6,658	6,259	4,115	2,968	3,136	1,581	2,998	4,033	4,377	3,908																																				
(WY)	(1996)	(2000)	(1995)	(1995)	(1995)	(1970)	(1970)	(1969)	(1969)	(1968)	(1968)	(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)	(1989)	(1965)	(1965)	(1965)	(1964)	(1964)																																				

SUMMARY STATISTICS

WATER YEARS 1964 - 2004*

ANNUAL MEAN	819
HIGHEST ANNUAL MEAN	3,328 1995
LOWEST ANNUAL MEAN	6.82 1964
HIGHEST DAILY MEAN	7,430 Dec 22, 1994
LOWEST DAILY MEAN	-38 Mar 28, 1985
ANNUAL SEVEN-DAY MINIMUM	-5.4 Mar 28, 1985
ANNUAL RUNOFF (AC-FT)	593,500
10 PERCENT EXCEEDS	2,300
50 PERCENT EXCEEDS	322
90 PERCENT EXCEEDS	0.00

e Estimated

*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 (1941-2001).