

02288900 TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

LOCATION.--Lat 25°51'05", long 80°58'50", in SW 1/4 sec.13, T.53 S., R.33 E., Collier County, Hydrologic Unit 03090202, on south bank, 25 ft east of bridge 105 on U.S. Highway 41, and 54 mi west of Miami, Dade County.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge only), October 1963 to current year. Prior to October 1963, published as Tamiami Canal at bridge 105, near Miami (auxiliary). Records of gage height prior to October 1963, are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to February 20, 1952, non-recording gage and February 20, 1952, to May 28, 1952, water-stage recorder, at same site at datum 0.37 ft higher.

REMARKS.--Records poor. Figures of daily discharge consist of runoff from Big Cypress Watershed and from the southern extension of the Levee 28 canal as represented by flow through all 29 bridges from bridge 28 to 22 and bridge 117 to 96. Prior to October 1963, daily discharge for this portion of canal was published as part of the total daily discharge of station, Tamiami Canal Outlets, Miami to Monroe (station 02289000). No NASQAN water quality records collected after September 30, 1993. No peaks above base determined. Zero flow occurs numerous days, during many water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Average annual mean discharge, 348 ft³/s, 252,130 acre-ft/yr. Figures represent 62 complete water years of discharge (1964-88, 1990-97, 1999-2004). Monthly discharge only, available 1941-63 water years.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 10.01 ft Oct. 20,1947 (present datum); minimum, 2.65 ft May 26,1974.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 8.90 ft Oct. 3; minimum, 4.64 ft June 2.

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	8.88	8.60	8.27	8.05	8.16	8.11	7.06	6.52	4.68	7.28	8.04	8.50
2	8.86	8.59	8.26	8.04	8.16	8.08	7.01	6.50	4.80	7.30	8.08	8.52
3	8.85	8.62	8.24	8.02	8.15	8.06	6.96	6.82	5.86	7.58	8.12	8.56
4	8.86	---	8.23	8.01	8.13	8.04	6.92	7.15	6.55	7.60	8.20	8.62
5	8.83	---	8.22	8.00	8.12	8.01	6.88	7.02	6.82	7.58	8.23	8.66
6	8.81	---	8.21	8.00	8.10	7.98	6.84	6.91	6.93	7.55	8.28	8.71
7	8.79	---	8.19	7.98	8.09	7.96	6.78	6.82	6.92	7.50	8.33	8.68
8	8.78	---	8.18	7.96	8.07	7.92	6.74	6.72	6.93	7.41	8.35	8.69
9	8.76	---	8.16	7.94	8.04	7.88	6.70	6.64	6.89	7.33	8.35	8.70
10	8.75	---	8.15	7.92	8.02	7.84	6.65	6.57	7.13	7.30	8.35	8.65
11	8.74	---	8.16	7.89	8.01	7.80	6.59	6.47	7.16	7.40	8.34	8.61
12	8.72	---	8.14	7.86	7.99	7.76	6.69	6.39	7.15	7.36	8.34	8.57
13	8.72	---	8.13	7.84	7.97	7.72	7.41	6.30	7.12	7.32	8.42	8.54
14	8.70	---	8.19	7.81	7.98	7.68	7.67	6.21	7.07	7.29	8.46	8.51
15	8.70	---	8.26	7.79	7.99	7.65	7.62	6.14	7.17	7.25	8.46	8.48
16	8.68	---	8.24	7.76	7.99	7.64	7.54	6.06	7.12	7.20	8.45	8.45
17	8.67	---	8.24	7.74	7.98	7.61	7.47	5.98	7.03	7.32	8.44	8.43
18	8.66	---	8.22	7.82	7.96	7.56	7.39	5.90	6.94	7.28	8.44	8.41
19	8.65	8.45	8.21	7.99	7.93	7.51	7.31	5.82	6.88	7.25	8.42	8.39
20	8.64	8.44	8.19	7.99	7.91	7.46	7.24	5.73	6.81	7.47	8.41	8.37
21	8.62	8.42	8.18	7.98	7.89	7.41	7.17	5.64	6.71	7.56	8.44	8.36
22	8.61	8.40	8.17	7.96	7.86	7.36	7.10	5.52	6.61	7.56	8.45	8.36
23	8.60	8.39	8.16	7.94	7.84	7.31	7.04	5.40	6.54	7.49	8.47	8.35
24	8.58	8.38	8.15	7.91	7.81	7.27	6.98	5.30	6.43	7.43	8.48	8.33
25	8.57	8.36	8.14	7.89	7.89	7.25	6.90	5.19	6.33	7.42	8.49	8.33
26	8.56	8.35	8.13	7.86	8.16	7.28	6.83	5.10	6.24	7.45	8.48	8.35
27	8.56	8.33	8.11	7.85	8.17	7.25	6.77	5.00	6.13	7.50	8.46	8.43
28	8.54	8.32	8.10	7.83	8.15	7.20	6.70	4.92	6.41	7.76	8.44	8.53
29	8.65	8.30	8.08	7.80	8.13	7.16	6.65	4.84	7.35	7.92	8.42	8.60
30	8.63	8.28	8.07	7.80	---	7.12	6.59	4.77	7.32	7.98	8.40	8.58
31	8.62	---	8.06	8.07	---	7.09	---	4.73	---	8.02	8.44	---
TOTAL	269.59	---	253.44	245.30	232.65	235.97	210.20	185.08	200.03	231.66	259.48	255.27
MEAN	8.70	---	8.18	7.91	8.02	7.61	7.01	5.97	6.67	7.47	8.37	8.51
MAX	8.88	---	8.27	8.07	8.17	8.11	7.67	7.15	7.35	8.02	8.49	8.71
MIN	8.54	---	8.06	7.74	7.81	7.09	6.59	4.73	4.68	7.20	8.04	8.33

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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	2,330	832	445	183	343	193	16	0.05	0.00	0.00	163	1,460
2	2,250	788	424	175	382	169	14	0.08	0.00	0.32	201	1,560
3	2,200	867	401	166	402	140	12	4.2	0.00	2.6	256	1,740
4	2,200	e940	381	164	372	126	10	12	0.00	3.6	347	1,930
5	2,100	e1,040	365	157	335	116	8.9	8.4	0.00	3.7	395	2,050
6	2,010	e1,190	349	153	307	109	7.4	6.6	0.00	3.5	484	2,240
7	1,940	e1,140	322	144	280	101	5.7	5.3	0.00	3.0	579	2,140
8	1,880	e1,100	304	132	247	92	4.5	4.1	0.00	2.0	621	2,150
9	1,800	e1,050	285	124	213	82	3.7	3.5	0.00	1.2	631	2,130
10	1,720	e1,010	279	118	191	73	2.7	2.7	0.00	1.2	644	1,930
11	1,670	e973	280	112	171	64	1.7	1.6	0.00	3.0	633	1,710
12	1,600	e932	263	106	152	56	3.5	1.0	0.00	2.7	640	1,470
13	1,540	e883	248	101	138	49	36	0.67	0.00	2.5	848	1,240
14	1,450	e842	338	97	136	41	51	0.40	0.00	2.4	981	1,060
15	1,410	e793	401	92	139	35	42	0.32	0.00	2.2	973	897
16	1,330	e757	353	88	135	32	36	0.26	0.00	2.5	946	797
17	1,250	e732	346	85	125	31	31	0.19	0.00	6.4	927	731
18	1,210	e713	328	104	117	30	26	0.16	0.00	6.8	920	684
19	1,140	696	318	145	111	28	21	0.15	0.00	7.8	869	642
20	1,080	672	301	137	107	25	17	0.12	0.00	20	868	595
21	1,030	646	280	131	103	24	14	0.12	0.00	28	966	564
22	978	619	272	123	98	22	11	0.10	0.00	32	1,070	558
23	908	596	271	117	94	20	8.9	0.09	0.00	31	1,120	539
24	857	574	261	112	90	19	6.7	0.07	0.00	31	1,200	504
25	802	557	248	107	117	19	4.6	0.06	0.00	34	1,250	502
26	773	533	237	102	263	22	3.0	0.06	0.00	40	1,270	539
27	753	523	234	100	260	21	1.9	0.03	0.00	48	1,200	752
28	695	503	219	97	241	20	0.97	0.03	0.00	77	1,150	1,180
29	1,010	478	207	91	221	18	0.59	0.03	0.16	104	1,060	1,480
30	961	450	198	92	---	18	0.27	0.00	0.06	120	1,020	1,500
31	889	---	195	218	---	17	---	0.00	---	142	1,180	---
TOTAL	43,766	23,429	9,353	3,873	5,890	1,812	402.03	52.39	0.22	764.42	25,412	37,274
MEAN	1,412	781	302	125	203	58.5	13.4	1.69	0.01	24.7	820	1,242
MAX	2,330	1,190	445	218	402	193	51	12	0.16	142	1,270	2,240
MIN	695	450	195	85	90	17	0.27	0.00	0.00	0.00	163	502
AC-FT	86,810	46,470	18,550	7,680	11,680	3,590	797	104	0.4	1,520	50,400	73,930

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

	854	490	268	196	152	132	74.9	63.3	342	581	698	836
MEAN	854	490	268	196	152	132	74.9	63.3	342	581	698	836
MAX	4,052	3,057	3,369	3,062	1,790	971	437	583	1,707	2,021	1,499	2,275
(WY)	(1996)	(1995)	(1995)	(1995)	(1995)	(1995)	(1983)	(1969)	(1982)	(1966)	(1966)	(1995)
MIN	66.6	26.4	3.80	1.54	0.53	0.00	0.00	0.00	0.01	24.7	29.7	135
(WY)	(1973)	(1975)	(1991)	(1990)	(1985)	(1971)	(1971)	(1967)	(2004)	(2004)	(1987)	(1967)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	212,185.6		152,028.06			
ANNUAL MEAN	581		415		397	
HIGHEST ANNUAL MEAN					1,660	1995
LOWEST ANNUAL MEAN					118	1975
HIGHEST DAILY MEAN	2,330	Sep 30	2,330	Oct 1	7,270	Oct 17, 1999
LOWEST DAILY MEAN	2.7	Apr 25	0.00*		0.00**	
ANNUAL SEVEN-DAY MINIMUM	7.5	Apr 19	0.00*		0.00**	
ANNUAL RUNOFF (AC-FT)	420,900		301,500		287,500	
10 PERCENT EXCEEDS	1,320		1,200		1,110	
50 PERCENT EXCEEDS	496		138		132	
90 PERCENT EXCEEDS	29		0.06		1.1	

e Estimated

* Many days.

** Many days during water years 1965-67, 1971-77, 1979, 1981-82, 1984-85, 1988-92, 1999-2002, 2004.

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.