

02288600 MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FL

LOCATION.--Lat 25°48'29", long 80°15'49", in NE ¼ sec.29, T.53 S., R.41 E., Miami-Dade County, Hydrologic Unit 03090202, on right bank at downstream end of NW 36th Street bridge fender at Miami, 1200 ft upstream from salinity-control structure S-26.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1959 to current year.

REVISED RECORDS.--WDR FL-98-2A, 1997, WDR FL-03-2A, 2002.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Prior to June 12, 2002, electronic data logger with water-stage shaft encoder and acoustic velocity meter with phone/radio telemetry provided by South Florida Water Management District. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Records fair except for estimated daily discharges and discharges between -20 and 20 cfs, which are poor. Flow affected by tide and is occasionally reversed. Some seepage losses above station into Miami-Dade Water and Sewer Authority well field for groundwater withdrawals. Natural flow materially affected by levee and control structures 31, 32 and 32A about 14 mi upstream, and structure 26 downstream. Acoustic velocity meter began on October 1, 1996, and was removed on June 12, 2002. Acoustic doppler velocity meter began on June 12, 2002. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 28 complete water years of discharge (1960-85, 1987-88).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 5.28 ft (estimated) Oct. 15, 1999; minimum, -0.55 ft Apr. 26, 1970.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 3.25 ft Sept. 26; minimum, 0.46 ft Aug. 11.

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	1.97	2.50	2.53	2.56	2.04	2.27	---	2.47	2.20	2.12	2.31	2.07
2	2.08	2.53	2.49	2.56	2.54	2.25	2.52	2.45	2.16	2.10	1.62	1.62
3	2.15	2.52	2.45	2.55	2.56	2.20	2.52	2.57	2.13	2.17	1.63	1.69
4	2.35	2.51	2.53	2.56	2.59	2.21	2.52	2.65	2.12	2.23	1.62	1.82
5	2.55	2.58	2.72	2.65	2.67	2.25	2.50	---	2.13	2.26	1.66	2.07
6	2.54	2.31	2.69	2.78	2.56	2.25	2.47	---	2.14	2.26	1.44	1.65
7	2.54	2.00	2.71	2.70	2.23	2.25	2.44	2.61	2.28	2.22	1.37	1.44
8	2.52	2.08	2.75	2.49	2.24	2.25	2.47	2.55	2.18	2.18	1.48	1.48
9	2.53	2.09	2.74	2.49	2.24	2.27	2.47	2.52	2.12	2.13	2.11	1.47
10	2.56	2.01	2.70	2.62	2.26	2.24	2.46	2.47	2.19	2.13	2.41	1.50
11	2.51	2.08	2.63	2.64	2.21	2.25	2.45	2.41	2.15	2.13	1.49	1.51
12	2.51	2.06	2.76	2.63	2.22	2.26	2.51	2.37	2.12	2.14	1.41	1.57
13	2.52	2.10	2.76	2.63	2.22	2.28	2.55	2.40	2.09	2.20	1.50	1.60
14	2.54	2.64	2.70	2.64	2.26	2.31	2.74	2.44	2.05	2.27	1.46	1.72
15	2.56	2.60	2.58	2.64	2.24	2.31	2.66	2.47	2.05	2.28	1.47	1.72
16	2.53	2.74	2.67	2.61	2.24	2.28	2.58	2.52	2.02	2.33	1.94	1.69
17	2.54	2.74	2.65	2.49	2.22	2.49	2.51	2.50	1.97	2.39	2.46	1.68
18	2.53	2.72	2.71	2.50	2.22	2.64	2.46	2.47	1.94	2.37	2.52	1.66
19	2.57	2.68	2.74	2.73	2.35	2.61	2.45	2.45	2.04	2.38	2.54	1.71
20	2.65	2.70	---	2.66	2.36	2.59	2.52	2.43	2.09	2.52	2.53	---
21	2.66	2.68	2.75	2.70	2.34	2.63	2.53	2.39	2.09	2.45	2.54	2.36
22	2.56	2.66	2.69	2.71	2.31	2.63	2.51	2.36	2.25	2.44	2.59	2.59
23	2.66	2.64	2.61	2.69	2.26	2.58	2.51	2.34	2.18	2.35	2.67	2.20
24	2.69	2.64	2.54	2.60	2.27	2.55	2.50	2.31	2.11	2.41	2.60	1.86
25	2.70	2.61	2.57	2.66	---	2.58	2.50	2.31	2.08	2.49	2.70	2.06
26	2.66	2.60	2.53	2.68	2.30	2.65	2.48	2.30	2.03	---	2.65	2.12
27	2.67	2.59	2.53	2.67	2.21	2.56	2.49	2.28	2.00	2.55	2.63	2.02
28	2.55	2.60	2.55	2.55	2.21	2.51	2.57	2.26	1.96	2.31	2.65	1.72
29	2.49	2.60	2.53	2.46	2.26	2.46	2.60	2.24	2.06	1.51	2.65	1.67
30	---	2.55	2.68	1.96	---	2.42	2.52	2.24	2.11	1.97	2.60	1.65
31	2.50	---	2.75	1.45	---	2.45	---	2.23	---	2.37	2.56	---
TOTAL	---	74.36	---	79.26	---	74.48	---	---	63.04	---	65.81	---
MEAN	---	2.48	---	2.56	---	2.40	---	---	2.10	---	2.12	---
MAX	---	2.74	---	2.78	---	2.65	---	---	2.28	---	2.70	---
MIN	---	2.00	---	1.45	---	2.20	---	---	1.94	---	1.37	---

02288600 MIAMI CANAL AT N.W. 36TH STREET, 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	454	295	2.4	201	415	244	e-0.96	8.1	6.5	6.2	e210	211
2	370	309	4.8	202	247	277	0.63	11	-0.82	e7.1	e695	307
3	353	283	4.4	206	215	369	-4.7	98	7.4	2.7	670	253
4	263	278	8.5	208	169	385	-2.8	143	4.2	2.9	602	254
5	223	318	18	122	65	368	-1.4	---	3.5	4.7	531	434
6	223	519	30	0.69	158	373	8.5	e5.5	4.3	6.9	633	634
7	219	558	34	2.6	354	372	21	9.9	1.8	-0.25	544	590
8	221	740	4.2	5.1	315	352	-1.1	7.6	6.6	5.8	489	521
9	203	719	7.0	5.1	348	359	-12	8.8	5.1	e7.8	213	468
10	235	564	53	-2.4	346	424	-7.2	9.4	3.9	4.4	185	413
11	267	466	80	4.1	368	424	5.1	7.7	9.5	4.4	453	388
12	218	444	-0.18	2.6	342	428	-3.5	5.4	4.7	e8.8	417	342
13	199	347	7.7	2.1	290	425	77	8.4	4.4	2.9	387	294
14	178	98	95	-3.4	255	411	36	13	-3.7	2.1	359	225
15	159	107	136	3.1	283	422	3.0	14	0.67	-0.43	352	272
16	158	5.3	81	2.6	252	445	6.0	13	8.5	3.8	169	264
17	143	7.4	82	4.7	262	197	7.2	14	5.2	-3.1	4.4	268
18	142	9.7	33	51	240	10	8.1	13	12	2.1	5.8	268
19	123	40	17	-17	162	14	7.7	10	1.0	4.5	4.0	266
20	80	2.5	---	-0.15	206	7.6	10	10	0.54	3.2	6.5	---
21	78	3.7	6.6	0.54	252	2.6	10	13	-0.60	-1.4	5.5	7.4
22	163	5.0	70	-4.4	265	-16	11	9.1	-2.7	1.3	0.15	11
23	104	6.4	158	1.1	267	7.1	7.6	10	8.3	e6.3	4.9	226
24	56	7.1	214	-4.3	268	5.3	8.2	7.8	11	5.5	51	253
25	42	10	213	7.2	---	5.8	9.7	11	11	2.2	7.0	157
26	88	5.2	236	9.1	405	7.4	9.6	6.6	9.7	e3.6	7.1	288
27	101	3.7	233	-4.8	379	7.2	-10	7.5	6.9	5.8	1.8	323
28	238	-2.1	218	1.4	317	5.0	5.0	3.8	4.8	e152	1.5	414
29	336	-0.43	211	7.8	265	-1.9	8.8	4.1	7.7	e353	-0.60	434
30	---	4.8	95	271	---	-4.4	11	-2.9	6.0	e111	-5.2	455
31	324	---	28	495	---	-8.1	---	1.1	---	0.07	6.1	---
TOTAL	---	6,153.27	---	1,779.38	---	6,316.6	227.47	---	147.39	715.89	7,008.95	---
MEAN	---	205	---	57.4	---	204	7.58	---	4.91	23.1	226	---
MAX	740	---	495	445	77	---	12	353	695	---	---	---
MIN	-2.1	---	-17	-16	-12	---	-3.7	-3.1	-5.2	---	---	---
AC-FT	---	12,210	---	3,530	---	12,530	451	---	292	1,420	13,900	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

	MEAN	366	280	209	182	180	148	116	127	247	255	284	362
MAX	1,272	1,071	1,041	939	791	729	662	682	813	791	848	1,146	
(WY)	(1961)	(1961)	(1960)	(1961)	(1961)	(1960)	(1960)	(1960)	(1968)	(1959)	(1960)	(1960)	
MIN	34.5	6.94	0.00	0.00	0.00	-1.61	0.00	-5.53	0.33	4.08	2.32	76.6	
(WY)	(1981)	(1989)	(1982)	(1981)	(1982)	(1962)	(1974)	(1993)	(1980)	(1981)	(1987)	(1987)	

SUMMARY STATISTICS

ANNUAL MEAN
HIGHEST ANNUAL MEAN
LOWEST ANNUAL MEAN
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
ANNUAL RUNOFF (AC-FT)
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

WATER YEARS 1959 - 2004

251
843
31.2
1,730
-279
-69
182,000
610
202
0.00

1960
1987
Oct 16, 1999
Jun 1, 1993
May 26, 1993

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.