

02290766 LEVEE 31 NORTH EXTENSION AT 4 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°42'06", long 80°29'46", in NE ¼ NE ¼ NE ¼ sec.35, T.54 S., R. 38 E., Miami-Dade County, Hydrologic Unit 03090202, 0.5 mi west of the junction of U.S. Highway 41 and Krome Avenue and 4.1 mi south of U.S. Highway 41 on west side of Levee 31 North, near West Miami, FL.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (FCE bench mark).

REMARKS.--Records poor. Flow primarily regulated by control structures S-335 upstream and G-211 downstream; occasionally S-334, S-336 and G-119 upstream and S-338 downstream also affect L-31 canal flows. The control structure S-24 located near the Tamiami Trail bridge is not used for regulation. The manual operation gated culvert S-24A, that is located 1 mi upstream, is inoperable.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 7 complete water years of discharge (1995, 1997-2001, 2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.32 ft Oct. 15, 1999; minimum, 3.53 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 6.62 ft Sept. 29; minimum, 3.92 ft May 25.

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	6.57	6.06	5.95	6.03	6.13	6.13	5.74	5.73	4.39	4.38	5.57	5.94
2	6.50	6.06	5.99	6.02	6.10	6.12	5.71	5.69	4.32	4.53	5.95	5.84
3	6.46	6.05	5.99	6.01	6.09	6.10	5.67	5.73	4.26	4.57	6.05	5.84
4	6.48	6.06	5.96	6.01	6.10	6.09	5.63	5.97	4.24	4.74	6.04	5.87
5	6.48	6.21	5.94	6.08	6.08	6.07	5.59	5.86	4.38	4.86	6.02	5.99
6	6.46	6.20	5.97	6.15	6.07	6.09	5.51	5.85	4.41	4.85	6.14	6.13
7	6.44	6.17	5.97	6.17	6.06	6.10	5.51	5.83	4.42	4.81	6.11	6.17
8	6.41	6.15	5.99	6.15	6.05	6.09	5.48	5.83	4.42	4.86	6.13	5.99
9	6.38	6.16	---	6.15	6.02	6.05	5.43	5.84	4.41	4.82	6.15	5.92
10	6.35	6.15	---	6.15	6.03	6.04	5.37	5.93	---	4.78	6.16	5.88
11	6.33	6.14	---	6.13	6.02	5.86	5.38	5.71	---	4.78	6.11	5.97
12	6.30	6.09	6.00	6.10	5.97	5.83	5.42	5.57	---	4.81	6.04	6.17
13	6.28	6.06	5.99	6.08	5.95	5.86	5.61	5.51	---	4.88	6.02	6.13
14	6.20	6.06	6.01	6.08	5.95	5.85	5.86	5.45	---	4.85	6.11	6.10
15	6.15	6.04	6.06	6.10	6.00	5.97	5.81	5.42	4.50	4.86	6.08	6.09
16	6.16	6.04	6.07	6.09	6.01	6.06	5.74	5.41	4.49	4.98	6.08	6.08
17	6.13	6.02	6.07	6.09	5.99	5.92	5.80	5.32	4.44	5.02	6.08	6.04
18	6.14	6.00	6.06	6.10	5.98	5.81	5.77	5.23	4.38	5.04	6.07	6.01
19	6.16	5.98	6.07	6.10	5.91	5.86	5.73	5.16	4.38	5.04	6.00	6.01
20	6.14	5.99	6.05	6.11	5.95	5.89	5.69	5.09	4.41	5.08	5.97	6.06
21	6.11	6.00	6.04	6.11	6.02	5.89	5.65	5.04	4.55	4.84	5.93	6.13
22	6.10	5.98	6.06	6.12	6.04	5.83	5.62	5.08	4.80	4.82	5.96	6.22
23	6.07	5.97	6.08	6.11	6.05	5.81	5.58	5.05	4.74	4.77	6.05	6.20
24	6.07	5.96	5.97	6.09	6.03	5.89	5.53	4.63	4.64	4.72	6.06	6.10
25	6.08	5.97	5.85	6.10	5.99	5.87	5.49	4.05	4.58	4.76	6.11	6.09
26	6.07	---	5.83	6.08	6.11	5.91	5.44	4.59	4.48	4.88	6.09	6.08
27	6.05	---	5.76	6.09	6.15	5.90	5.48	4.39	4.41	4.96	6.08	6.09
28	6.02	5.89	5.72	6.10	6.14	5.87	5.74	4.48	4.34	5.40	6.10	6.25
29	6.07	5.97	5.70	6.06	6.13	5.84	5.86	4.55	4.36	5.43	6.08	6.43
30	6.08	5.92	5.68	6.06	---	5.81	5.72	4.45	4.36	5.46	6.05	6.10
31	6.08	---	5.85	6.15	---	5.77	---	4.48	---	5.48	6.01	---
TOTAL	193.32	---	---	188.97	175.12	184.18	168.56	162.92	---	152.06	187.40	181.92
MEAN	6.24	---	---	6.10	6.04	5.94	5.62	5.26	---	4.91	6.05	6.06
MAX	6.57	---	---	6.17	6.15	6.13	5.86	5.97	---	5.48	6.16	6.43
MIN	6.02	---	---	6.01	5.91	5.77	5.37	4.05	---	4.38	5.57	5.84

02290766 LEVEE 31 NORTH EXTENSION AT 4 MILE NEAR WEST 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	358	842	965	271	301	338	298	383	324	380	e52	419
2	372	828	958	297	370	346	301	370	322	451	169	461
3	323	843	951	315	358	341	298	354	321	419	158	481
4	350	775	974	298	371	336	300	327	342	438	306	376
5	344	544	986	240	357	368	319	219	291	425	280	416
6	361	417	954	196	332	463	272	197	304	423	329	450
7	416	424	930	163	359	465	289	201	351	408	341	493
8	372	429	921	172	327	475	292	196	349	431	351	376
9	379	436	e901	204	355	434	343	175	313	412	333	432
10	389	472	e836	154	344	450	338	100	e347	405	e374	442
11	427	512	e797	171	356	481	335	e246	e261	407	364	487
12	456	650	802	205	346	475	317	361	e287	459	324	617
13	424	839	794	208	367	453	260	349	e260	460	253	569
14	442	847	791	206	309	453	127	328	e261	441	272	553
15	489	866	796	211	308	317	162	298	303	449	344	547
16	430	880	790	210	328	200	210	308	313	443	389	563
17	425	981	740	186	324	348	231	313	331	421	362	547
18	458	1,070	754	163	285	341	233	309	268	380	366	547
19	461	1,060	748	193	380	311	231	299	266	392	409	538
20	459	1,060	742	198	379	268	221	302	265	e157	429	492
21	491	1,030	746	212	357	273	219	301	276	e11	e399	423
22	558	1,020	692	219	345	315	212	303	270	e47	389	416
23	552	1,020	627	182	344	302	213	309	238	e35	418	424
24	555	1,030	568	226	302	276	196	354	278	e-86	376	438
25	566	1,010	473	194	371	288	216	291	271	e-115	353	436
26	557	e942	500	177	388	294	182	e-15	286	e-66	336	422
27	569	e606	533	195	340	294	264	e103	287	e33	e420	437
28	561	779	504	176	335	293	273	217	318	e-0.74	412	286
29	575	956	486	202	333	322	293	397	279	e-38	423	260
30	687	957	481	233	---	303	393	320	279	e35	409	e566
31	843	---	360	213	---	299	---	332	---	e-42	e394	---
TOTAL	14,649	24,125	23,100	6,490	9,971	10,922	7,838	8,547	8,861	8,014.26	10,534	13,914
MEAN	473	804	745	209	344	352	261	276	295	259	340	464
MAX	843	1,070	986	315	388	481	393	397	351	460	429	617
MIN	323	417	360	154	285	200	127	-15	238	-115	52	260
AC-FT	29,060	47,850	45,820	12,870	19,780	21,660	15,550	16,950	17,580	15,900	20,890	27,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	395	475	462	415	404	408	480	357	256	316	381	404
MAX	495	804	758	977	725	585	892	833	465	579	671	574
(WY)	(2002)	(2004)	(2002)	(2000)	(2000)	(2002)	(1998)	(1998)	(1998)	(2003)	(2002)	(2002)
MIN	240	238	241	209	235	236	213	115	9.68	84.2	242	265
(WY)	(1998)	(1998)	(1998)	(2004)	(1996)	(1996)	(2001)	(2001)	(2001)	(2001)	(1997)	(1997)

SUMMARY STATISTICS

ANNUAL TOTAL
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

FOR 2004 WATER YEAR

WATER YEARS 1994 - 2004

146,965.26		
402		387
		526
		271
	1,070	Nov 18
	-115	Jul 25
	-34	Jul 23
291,500		280,400
782		674
352		350
196		180

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.