

02290768 LEVEE 31 NORTH EXTENSION AT 7 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°39'48", long 80°29'54", NE ¼ NE ¼ SE ¼ sec.11, T.55 S., R.38 E., Miami-Dade County, Hydrologic Unit 03090202, (South Miami NW quadrangle), 0.5 mi west of junction of U.S. Highway 41 and Krome Avenue and 6.9 mi south of U.S. Highway 41 on the west side of Levee 31 North Levee, 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 fair except for estimated daily discharges, which are poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow is the sum of regulation from upstream control structures S-334, S-335 and S-336 from levee seepage and rainfall, and from structures S-338 and G-211 downstream. Positive flow is to the south and may reverse for short periods.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 7 complete water years of discharge (1995, 1997-98, 2000-02, 2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.19 ft Oct. 15, 1999; minimum, 3.46 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 6.56 ft Sept. 29; minimum, 3.85 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	6.49	5.92	5.81	5.97	6.09	6.08	---	5.66	4.31	4.33	5.50	5.86
2	6.42	5.91	5.85	5.95	6.08	6.08	---	5.62	4.25	4.46	5.89	5.76
3	6.36	5.90	5.85	5.95	6.09	6.06	5.61	5.66	4.18	4.51	5.99	5.77
4	6.38	5.92	5.82	5.95	6.10	6.04	5.57	5.91	4.16	4.67	5.98	5.77
5	6.38	6.09	5.78	6.01	6.08	6.02	5.54	5.81	4.30	4.78	5.94	5.86
6	6.37	6.09	5.82	6.10	6.05	6.02	5.46	5.79	4.35	4.76	6.06	6.02
7	6.34	6.06	5.82	6.12	6.05	6.04	5.46	5.77	4.35	4.73	6.03	6.07
8	6.31	6.04	5.83	6.10	6.04	6.03	5.42	5.78	4.35	4.78	6.05	5.89
9	6.28	6.06	5.84	6.09	6.00	5.99	5.38	---	4.34	4.75	6.06	5.83
10	6.25	6.04	5.88	6.10	5.99	5.98	5.31	---	4.39	4.72	6.06	5.79
11	6.23	6.02	5.89	6.08	5.97	5.80	5.32	5.65	4.56	4.71	6.03	5.88
12	6.20	5.95	5.87	6.04	5.95	5.78	5.36	5.51	4.57	4.74	5.95	6.08
13	6.17	5.90	5.87	6.03	5.92	5.80	5.54	5.46	4.58	4.85	5.92	6.04
14	6.10	5.91	5.88	6.03	5.91	5.78	5.82	5.40	4.50	4.74	6.03	6.00
15	6.05	5.88	5.94	6.04	5.97	5.91	5.77	5.36	4.43	4.78	6.00	5.99
16	6.05	5.88	5.94	6.03	5.99	5.99	5.69	5.35	---	4.89	6.00	5.98
17	6.02	5.85	5.95	6.01	5.97	5.86	5.75	5.26	---	4.94	6.00	5.96
18	6.03	5.82	---	6.02	5.96	5.75	5.71	5.17	4.31	4.95	5.99	5.94
19	6.05	5.80	5.95	6.03	5.88	5.79	5.68	5.10	4.31	4.95	5.92	5.93
20	6.03	5.81	5.93	6.04	5.92	5.83	5.64	5.03	4.34	5.00	5.89	5.98
21	6.00	5.83	5.93	6.04	5.98	5.81	5.60	4.98	4.47	4.78	5.84	6.06
22	5.98	5.80	5.95	6.05	6.01	5.76	5.55	5.02	4.73	4.76	5.87	6.15
23	5.95	5.80	5.97	6.05	6.01	5.75	5.52	4.99	4.66	4.71	5.97	6.14
24	5.95	5.79	5.87	6.04	5.99	5.83	5.47	4.56	4.58	---	5.98	6.03
25	5.97	5.80	5.75	6.05	5.94	5.82	5.43	3.97	4.52	---	6.03	6.01
26	5.95	5.81	5.74	6.03	6.07	5.85	5.37	4.54	4.42	---	6.01	5.98
27	5.92	5.70	5.66	6.03	6.11	5.84	5.42	4.32	4.35	4.88	5.99	6.00
28	5.90	5.76	5.62	6.06	6.10	5.80	5.69	4.41	4.28	5.34	6.01	6.18
29	5.95	5.84	5.61	6.02	6.09	---	5.80	4.48	4.30	5.36	6.00	6.36
30	5.96	5.78	5.60	6.02	---	---	5.65	4.38	4.30	5.39	5.96	6.01
31	5.93	---	5.78	6.12	---	---	---	4.41	---	5.41	5.91	---
TOTAL	189.97	176.76	---	187.20	174.31	---	---	---	---	---	184.86	179.32
MEAN	6.13	5.89	---	6.04	6.01	---	---	---	---	---	5.96	5.98
MAX	6.49	6.09	---	6.12	6.11	---	---	---	---	---	6.06	6.36
MIN	5.90	5.70	---	5.95	5.88	---	---	---	---	---	5.50	5.76

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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	431	913	e1,040	214	279	321	e260	356	304	362	e-1.0	423
2	464	891	990	248	312	332	e263	343	296	417	134	473
3	464	925	1,000	261	315	330	254	343	301	399	185	432
4	413	839	1,030	252	313	305	253	285	319	414	407	380
5	406	597	1,040	194	340	362	277	174	257	381	349	469
6	412	463	980	119	313	462	235	143	276	415	347	522
7	421	488	952	121	309	440	242	142	316	403	348	572
8	410	497	939	114	300	448	248	157	314	418	347	537
9	400	487	955	140	328	438	288	e139	274	415	333	559
10	402	534	876	109	317	442	284	e64	296	378	333	520
11	416	593	818	124	310	504	289	236	243	373	352	517
12	428	749	e817	150	320	484	290	371	232	426	308	611
13	413	941	822	133	322	460	241	329	e192	430	252	606
14	449	962	819	147	285	463	77	307	257	423	251	605
15	489	981	812	152	278	295	106	288	276	423	310	596
16	486	994	810	156	287	180	148	303	e287	424	333	587
17	485	1,100	760	131	282	316	173	315	e298	396	318	578
18	495	1,210	e759	117	269	306	174	303	243	364	324	582
19	496	1,170	750	123	354	263	185	291	213	365	380	582
20	493	1,130	745	146	354	243	184	304	229	143	365	507
21	535	1,100	751	158	306	232	207	285	293	e-14	356	431
22	597	1,120	701	154	298	285	202	302	328	e-37	351	432
23	597	1,120	640	136	291	262	221	295	246	e-30	373	435
24	588	e1,120	590	166	280	239	200	376	288	e-36	352	446
25	601	1,100	463	134	375	252	201	328	272	e-46	358	457
26	599	1,020	510	134	386	261	205	3.1	291	e-31	367	457
27	597	e703	552	146	330	266	255	157	282	e-17	400	470
28	588	847	515	130	322	254	256	253	296	e7.1	408	345
29	601	e1,040	484	143	320	e264	284	379	284	e-17	430	431
30	739	e1,030	478	155	---	e281	347	339	264	e-12	419	635
31	923	---	316	167	---	e236	---	300	---	e-59	e385	---
TOTAL	15,838	26,664	23,714	4,774	9,095	10,226	6,849	8,210.1	8,267	7,477.1	10,174.0	15,197
MEAN	511	889	765	154	314	330	228	265	276	241	328	507
MAX	923	1,210	1,040	261	386	504	347	379	328	430	430	635
MIN	400	463	316	109	269	180	77	3.1	192	-59	-1.0	345
AC-FT	31,410	52,890	47,040	9,470	18,040	20,280	13,580	16,280	16,400	14,830	20,180	30,140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	539	719	601	464	444	388	314	374	258	389	464	497
MAX	611	889	809	998	745	583	450	588	483	621	699	641
(WY)	(2002)	(2004)	(2002)	(2000)	(2000)	(2002)	(2000)	(2003)	(2003)	(2003)	(2002)	(2002)
MIN	453	413	258	154	266	220	202	118	32.8	109	328	416
(WY)	(2000)	(2001)	(2001)	(2004)	(2002)	(2001)	(2001)	(2001)	(2001)	(2001)	(2004)	(2000)

SUMMARY STATISTICS

	FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	146,485.2			
ANNUAL MEAN	400		447	
HIGHEST ANNUAL MEAN			564	
LOWEST ANNUAL MEAN			288	
HIGHEST DAILY MEAN	1,210	Nov 18	1,340	Nov 1, 2001
LOWEST DAILY MEAN	-59	Jul 31	-184	Oct 4, 2000
ANNUAL SEVEN-DAY MINIMUM	-30	Jul 21	-30	Jul 21, 2004
MAXIMUM PEAK FLOW	1,290	Nov 25	1,320	Mar 24, 2003
ANNUAL RUNOFF (AC-FT)	290,600		323,600	
10 PERCENT EXCEEDS	814		839	
50 PERCENT EXCEEDS	333		410	
90 PERCENT EXCEEDS	145		155	

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.