

02290767 LEVEE 31 NORTH EXTENSION AT 5 MILE NEAR WEST MIAMI, FL

LOCATION.--Lat 25°41'09", long 80°29'50", T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, (South Miami NW quadrangle), 1.05 mi west of the junction of U.S. Highway 41 and Krome Avenue, and 5.25 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 16, 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 those for estimated daily discharges, and velocities recorded fall below 0.20 ft/sec, which are poor. Flow primarily regulated by control structure S-355 upstream and G-211 downstream; occasionally S-334, S-336, 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 2 mi upstream is inoperable. Positive flow is to the south and may reverse for short periods. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity.

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

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.27 ft Oct. 15, 1999; minimum, 3.48 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 6.58 ft Sept. 29; minimum, 3.87 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	5.96	5.86	5.98	6.09	6.09	5.71	5.69	4.34	4.33	5.53	5.89
2	6.43	5.96	5.90	5.97	6.06	6.08	5.68	5.66	4.27	4.48	5.92	5.79
3	6.39	5.94	5.90	5.97	6.06	6.07	5.65	5.69	4.21	4.52	6.03	5.80
4	6.41	5.97	5.87	5.97	6.06	6.05	5.63	5.94	4.18	4.69	6.01	5.81
5	6.41	6.12	5.83	6.03	6.05	6.03	5.62	5.83	4.33	4.81	5.98	5.92
6	6.39	6.12	5.87	6.11	6.03	6.05	5.50	5.82	4.37	4.79	6.09	6.07
7	6.36	6.08	5.87	6.13	6.03	6.06	5.49	5.80	4.38	4.76	6.06	6.11
8	6.33	6.07	5.88	6.12	6.01	6.05	5.45	5.80	4.38	4.81	6.09	5.93
9	6.30	6.09	5.88	6.11	5.98	6.02	5.41	5.81	4.36	4.77	6.10	5.87
10	6.28	6.07	5.92	6.11	5.97	6.01	5.34	---	4.41	4.73	6.09	5.82
11	6.26	6.05	5.93	6.10	5.95	5.83	5.35	5.67	4.58	4.73	6.06	5.91
12	6.23	6.00	5.92	6.06	5.93	5.80	5.39	5.53	4.59	4.76	5.99	6.11
13	6.20	5.95	5.90	6.04	5.91	5.82	5.57	5.47	4.60	4.82	5.96	6.08
14	6.12	5.96	5.92	6.04	5.90	5.81	5.84	5.42	4.52	4.79	6.06	6.04
15	6.07	5.93	5.98	6.06	5.96	5.94	5.78	5.38	4.45	---	6.03	6.04
16	6.08	5.94	5.98	6.05	5.97	6.02	5.71	5.37	---	---	6.03	6.02
17	6.05	5.91	5.99	6.05	5.95	5.88	5.77	5.28	4.39	4.97	6.03	6.00
18	6.05	5.88	5.98	6.06	5.94	5.78	5.74	5.20	4.33	4.99	6.03	5.98
19	6.08	5.87	5.99	6.07	5.87	5.82	5.70	5.12	4.33	4.99	5.95	5.97
20	6.06	5.87	5.97	6.08	5.91	5.86	5.66	5.05	4.37	5.04	5.92	6.02
21	6.03	5.89	5.97	6.07	5.98	5.85	5.62	5.00	4.50	4.80	5.87	6.10
22	6.01	5.86	5.98	6.08	6.00	5.79	5.58	5.04	4.76	4.78	5.90	6.19
23	5.98	5.86	6.00	6.07	6.01	5.78	5.55	5.01	4.69	4.73	6.00	6.18
24	5.98	5.85	5.90	6.06	5.99	5.86	5.50	4.59	4.60	4.68	6.01	6.07
25	6.00	5.86	5.78	6.07	5.95	5.85	5.46	3.99	---	4.72	6.07	6.05
26	5.99	5.86	5.76	6.05	6.07	5.88	5.40	4.54	4.44	---	6.04	6.03
27	5.96	5.76	5.69	6.05	6.11	5.88	5.44	4.34	4.36	4.92	6.02	6.04
28	5.93	5.80	5.65	6.07	6.10	5.85	---	4.43	4.29	5.36	6.05	6.21
29	5.98	5.88	5.64	6.02	6.09	5.81	5.82	4.51	4.31	5.40	6.03	6.38
30	5.99	5.83	5.63	6.03	---	5.78	5.68	4.41	4.31	5.43	6.00	6.05
31	5.98	---	5.80	6.12	---	5.74	---	4.43	---	5.44	5.94	---
TOTAL	190.82	178.19	182.14	187.80	173.93	183.14	---	---	---	---	185.89	180.48
MEAN	6.16	5.94	5.88	6.06	6.00	5.91	---	---	---	---	6.00	6.02
MAX	6.49	6.12	6.00	6.13	6.11	6.09	---	---	---	---	6.10	6.38
MIN	5.93	5.76	5.63	5.97	5.87	5.74	---	---	---	---	5.53	5.79

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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	319	797	962	208	266	281	256	338	294	369	22	405
2	342	793	950	251	319	286	259	344	316	418	116	425
3	308	798	929	235	324	270	243	334	322	388	126	419
4	311	722	957	232	320	282	236	307	311	399	311	363
5	301	e525	e973	205	323	360	284	221	256	397	283	390
6	315	e409	947	144	312	435	226	188	280	397	292	480
7	334	e431	923	135	311	437	262	138	312	379	305	530
8	330	e439	904	124	286	425	220	94	302	423	344	496
9	343	432	885	151	308	414	266	e4.5	297	395	336	493
10	329	e472	820	125	314	410	292	e-2.1	301	388	375	451
11	342	521	781	134	325	453	292	e220	215	375	365	436
12	380	653	781	153	311	450	282	353	241	419	320	589
13	340	834	e778	163	311	420	224	313	231	426	220	546
14	361	856	e768	166	286	418	e102	307	221	411	250	537
15	425	855	e777	167	259	264	e115	301	262	e410	307	557
16	410	868	760	173	291	165	172	302	e248	e403	362	569
17	403	964	725	175	283	309	220	298	299	378	364	558
18	427	1,060	730	124	263	276	221	305	198	323	341	554
19	428	1,070	718	162	347	277	206	312	232	350	393	542
20	427	1,060	719	157	336	249	203	320	228	e102	372	476
21	459	1,020	723	175	299	281	193	336	240	e-19	360	398
22	520	1,020	682	176	307	287	e132	334	249	e-5.4	342	394
23	525	1,010	600	146	327	248	197	319	235	e-8.4	371	404
24	511	1,010	568	172	278	247	e129	335	211	e-145	341	412
25	514	994	445	191	348	263	185	302	e205	e-138	351	418
26	523	917	474	139	346	255	126	e-51	231	e-98	e345	402
27	522	e616	508	125	303	262	237	e72	291	e12	363	422
28	499	768	478	142	307	259	e232	207	298	e-45	403	296
29	526	956	447	156	276	287	268	379	297	e-116	409	351
30	648	949	e448	179	---	277	347	308	305	e-55	410	529
31	792	---	303	162	---	232	---	303	---	e-92	404	---
TOTAL	13,214	23,819	22,463	5,147	8,886	9,779	6,627	7,841.4	7,928	6,840.2	9,903	13,842
MEAN	426	794	725	166	306	315	221	253	264	221	319	461
MAX	792	1,070	973	251	348	453	347	379	322	426	410	589
MIN	301	409	303	124	259	165	102	-51	198	-145	22	296
AC-FT	26,210	47,240	44,560	10,210	17,630	19,400	13,140	15,550	15,730	13,570	19,640	27,460

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

MEAN	415	497	472	417	421	404	484	348	253	320	405	421
MAX	604	794	828	1,066	804	587	914	859	462	550	669	582
(WY)	(2001)	(2004)	(2000)	(2000)	(2000)	(2002)	(1998)	(1998)	(1998)	(2003)	(2002)	(2002)
MIN	231	229	256	166	266	189	221	110	-47.8	76.3	251	266
(WY)	(1998)	(1998)	(1998)	(2004)	(2002)	(1996)	(2004)	(1996)	(2001)	(1994)	(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

136,289.6
372
1,070
-145
-84
270,300
762
320
150

WATER YEARS 1994 - 2004

400
605
280
1,300
-285
-84
289,800
707
356
183

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.