

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°56'28", long 80°26'23", in NE ¼ sec.9, T.52 S., R.39 E., Miami-Dade County, Hydrologic Unit 03090202, south of State Road 997 approximately 800 ft on south bank, 1000 ft downstream from control structure 32, 14.1 mi upstream from salinity-structure 26, 19.5 mi northwest of Miami, and 19.8 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to current year. Published as "at broken dam, near Miami" November 1959 to September 1967, and October 1984 to November 1988.

REVISED RECORDS.--WDR FL-99-2A, 1998.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to January 20, 1968 and October 1984 to November 1988, at site 0.5 mi downstream at same datum.

REMARKS.--Records fair except for flows below 100 cfs and estimated daily discharges, which are poor. Flow affected by regulation at downstream salinity-control structure S-26 and by upstream storage releases at control structures 31, 32, and 32A and S-337. Prior to August 23, 1999, water-stage recorder and electromagnetic velocity meter. 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 31 complete water years of discharge (1961-84, 87, 1992-94, 1999-2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 6.59 ft July 1, 1982; minimum, 1.40 ft May 31, 1962 (site at broken dam). See PERIOD OF RECORD.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 3.91 ft Oct. 1; minimum, 1.82 ft Sept. 4.

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	3.35	3.02	2.53	2.93	2.60	2.67	2.41	2.47	2.15	2.07	2.61	2.36
2	3.27	3.04	2.50	2.92	2.70	2.79	2.41	2.45	2.11	2.05	2.76	2.08
3	3.15	---	2.49	2.93	2.68	3.10	2.42	2.62	2.07	2.08	2.83	2.03
4	3.12	3.02	2.77	2.94	2.69	3.27	2.41	2.70	2.05	2.15	2.69	2.03
5	3.13	3.13	2.99	2.94	2.75	3.30	2.42	2.68	2.06	2.19	2.67	2.79
6	3.08	3.08	2.93	2.96	2.80	3.27	2.44	2.65	---	2.20	2.64	2.69
7	3.01	2.94	2.96	---	2.73	3.26	2.42	2.59	---	2.14	2.49	2.45
8	2.96	3.23	2.99	2.52	2.73	3.24	2.39	2.54	2.14	2.14	2.44	2.34
9	2.90	2.94	---	2.47	2.74	3.25	2.37	2.51	2.09	2.11	2.55	2.23
10	2.95	2.72	---	2.46	2.75	3.26	2.39	---	2.15	2.08	2.67	2.17
11	---	2.66	---	2.60	2.72	3.26	2.42	---	2.14	2.05	2.35	2.11
12	2.88	2.59	---	2.60	2.69	3.26	2.47	2.40	2.07	2.12	2.21	2.11
13	2.86	2.51	3.02	2.58	2.67	3.27	2.56	2.42	2.06	2.18	2.21	---
14	2.82	---	3.05	2.58	2.70	3.30	2.64	2.45	2.03	2.27	2.10	2.16
15	2.79	2.70	2.98	2.57	2.69	3.31	2.57	2.47	2.03	2.26	2.07	2.16
16	2.77	2.79	3.02	2.56	2.66	3.30	2.53	2.51	---	---	2.22	2.10
17	2.73	2.79	2.97	2.48	2.64	2.89	2.47	2.51	1.95	2.31	2.46	2.04
18	2.71	2.78	2.99	2.51	2.59	2.61	2.43	2.46	1.95	2.28	2.52	2.05
19	2.73	2.72	2.98	2.68	2.67	2.58	2.41	2.43	1.98	2.39	2.52	2.08
20	2.75	2.67	2.97	2.60	2.70	2.60	2.47	2.39	2.03	2.53	2.52	2.09
21	2.76	2.68	2.98	2.64	2.68	2.58	2.49	2.37	2.04	2.44	2.53	2.34
22	2.75	2.67	2.98	2.65	2.62	2.55	2.49	2.33	2.20	2.42	2.57	2.58
23	2.76	---	2.96	2.61	2.61	2.54	2.47	2.32	2.19	---	2.64	2.50
24	2.77	2.65	2.92	2.53	2.61	2.53	2.47	2.26	2.13	2.39	2.61	2.23
25	---	2.64	2.94	2.63	2.67	2.56	2.47	2.24	---	2.42	---	2.28
26	2.78	2.62	2.92	2.65	2.78	2.63	2.45	2.23	2.05	2.48	2.63	2.64
27	2.93	2.62	2.92	2.61	2.65	2.55	2.39	2.22	2.01	2.52	2.58	2.57
28	3.09	2.61	2.94	2.46	2.61	2.47	---	2.21	1.96	2.60	2.61	2.37
29	---	2.57	2.92	2.43	2.66	2.40	---	2.19	2.05	2.23	2.60	2.30
30	3.12	2.56	2.96	2.21	---	2.37	---	2.18	2.09	2.23	2.57	2.34
31	3.11	---	2.98	2.01	---	2.37	---	2.16	---	2.38	2.53	---
TOTAL MEAN	---	---	---	---	77.79	89.34	---	---	---	---	---	---
MAX	---	---	---	---	2.80	3.31	---	---	---	---	---	---
MIN	---	---	---	---	2.59	2.37	---	---	---	---	---	---

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR 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	72	262	41	237	37	201	30	25	25	27	e4.5	30
2	96	260	38	235	35	278	27	e23	25	26	26	32
3	58	e267	35	234	34	434	27	24	25	18	24	25
4	53	270	178	231	44	492	31	22	19	21	26	28
5	50	276	275	231	35	483	19	28	22	26	25	45
6	49	173	259	227	122	495	30	30	e24	24	24	53
7	49	198	258	---	228	486	29	37	e22	19	30	50
8	49	292	264	---	225	482	24	35	30	25	34	50
9	46	46	---	33	231	480	19	35	25	25	30	49
10	45	42	---	28	231	477	24	e41	29	24	32	53
11	e45	47	---	31	229	481	27	e40	26	16	31	51
12	45	47	---	29	230	479	24	37	30	22	32	55
13	47	41	260	31	229	481	24	35	28	24	36	e57
14	43	e40	257	28	226	482	23	39	27	27	32	58
15	45	40	255	27	227	477	25	36	29	23	28	54
16	48	44	260	29	226	476	29	40	e32	e23	27	56
17	47	43	248	27	225	230	28	33	29	e18	24	49
18	44	43	247	30	223	35	29	39	25	16	29	46
19	45	43	247	29	e227	31	31	38	24	26	23	45
20	44	40	247	30	236	35	31	35	25	25	23	33
21	43	40	243	30	e227	27	31	34	25	18	30	50
22	44	41	249	29	e198	29	31	33	29	24	24	48
23	46	e40	251	28	e199	27	34	31	35	e22	21	49
24	44	41	246	32	e197	26	33	32	32	26	30	42
25	e48	40	237	28	197	30	37	27	e33	20	e28	40
26	49	41	239	37	194	33	24	27	27	20	30	56
27	168	40	238	34	190	31	18	24	28	19	23	53
28	313	41	242	28	194	30	e22	24	25	24	32	54
29	e298	35	240	31	235	26	e37	25	28	35	28	58
30	301	39	238	34	---	26	e30	29	28	30	31	62
31	291	---	238	36	---	23	---	24	---	e16	30	---
TOTAL	2,665	2,912	---	---	5,331	7,823	828	982	811	709	847.5	1,431
MEAN	86.0	97.1	---	---	184	252	27.6	31.7	27.0	22.9	27.3	47.7
MAX	313	292	236	495	37	41	35	35	36	62		
MIN	43	35	34	23	18	22	19	16	4.5	25		
AC-FT	5,290	5,780	---	---	10,570	15,520	1,640	1,950	1,610	1,410	1,680	2,840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

	209	215	202	202	189	173	197	157	136	146	164	183
MEAN	209	215	202	202	189	173	197	157	136	146	164	183
MAX	921	696	638	586	826	826	885	689	798	636	668	649
(WY)	(1961)	(1961)	(1961)	(1961)	(1983)	(1983)	(1970)	(1970)	(1970)	(1982)	(1982)	(1966)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1981)	(1981)	(1981)	(1982)	(1982)	(1980)	(1980)	(1979)	(1979)	(1980)	(1980)	(1980)

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 1961 - 2004

197
 476
 28.4
 1,090
 0.00
 0.00
 142,700
 345
 190
 0.00

1970
 1997
 Mar 20, 1970
 Apr 26, 1979
 Apr 26, 1979

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.