

02289500 TAMiami CANAL NEAR CORAL GABLES, FL

LOCATION.--Lat 25°45'43", long 80°19'42", in SW ¼ sec.3, T.54 S., R.40 E., Miami-Dade County, Hydrologic Unit 03090202, on upstream side of footbridge, 25 ft from south bank, 0.5 mi upstream from Coral Gables Canal, 2.5 mi west of Coral Gables city limits, 3.5 mi downstream from Snapper Creek Canal, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1940 to June 1943, October 1959 to current year.

REVISED RECORDS.--WDR FL-87-2A, 1986; WDR FL-97-2A, 1995; WDR FL-98-2A, 1997.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. January 1940 to June 1943, non-recording gage at same site at datum 0.22 ft lower. Benchmark was readjusted, datum prior to 1963, 0.48 lower.

REMARKS.--Records poor. The flow is slightly affected by tide and is regulated by control structures downstream at the Coral Gables Canal, Comfort Canal (S-25), S-25A, S-25B and upstream by S-336 and drainage from the Snapper Creek. Discharge computed from continuous velocity record obtained from acoustic velocity metering system and stage. Records of gage height prior to October 1960, are available in files of the U.S. Geological Survey.

COOPERATION.--South Florida Water Management District.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete water years of discharge (1941, 42, 1960-83, 1985-88, 1990, 2001).

EXTREME STAGES FOR OUTSIDE PERIOD OF RECORD.--Maximum stage known, 8.01 ft Oct. 12, 1947, present datum, from non-recording gage reading.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.90 ft Oct. 4, 2000; minimum, 1.08 ft May 31, 1962.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 3.77 ft Oct. 1; minimum, 2.00 ft June 18.

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	---	2.60	2.56	3.11	2.74	2.91	2.91	2.85	2.63	2.42	2.63	2.66
2	3.25	2.65	2.54	3.16	3.08	2.85	2.94	2.80	2.60	2.43	2.96	2.59
3	3.12	2.63	2.53	3.18	3.17	2.80	2.95	3.10	2.56	2.47	3.06	2.52
4	3.07	2.67	2.53	3.19	3.20	2.78	2.94	3.23	2.55	2.50	3.04	2.52
5	3.00	2.80	2.56	3.11	3.09	2.76	2.94	3.13	2.57	2.55	2.94	2.90
6	2.91	3.00	2.54	2.91	2.89	2.74	2.93	2.99	2.60	2.56	2.96	2.94
7	2.89	2.97	2.52	2.83	2.77	2.71	2.91	2.91	2.76	2.55	2.85	2.86
8	2.82	2.99	2.55	2.77	2.79	2.68	2.91	2.84	2.46	2.53	2.82	2.98
9	2.73	3.09	2.57	2.81	2.99	2.75	2.90	2.79	2.42	2.50	3.02	2.80
10	2.78	2.89	2.61	3.00	3.15	2.94	2.89	2.75	2.40	2.46	2.89	2.72
11	2.81	2.84	2.59	3.05	3.20	3.00	2.89	2.70	2.36	2.44	2.72	2.65
12	2.72	2.80	2.58	3.08	3.07	3.04	2.86	2.64	2.34	2.44	2.62	2.64
13	2.66	2.70	2.59	3.10	2.85	3.06	2.85	2.80	2.29	2.46	2.62	2.59
14	2.62	2.67	2.62	3.12	2.80	3.07	3.02	2.93	2.25	2.56	2.49	2.57
15	2.67	2.64	2.65	3.12	2.78	3.09	2.92	2.97	2.23	2.57	2.47	2.59
16	2.67	2.60	2.65	3.08	2.75	3.11	2.85	3.00	2.19	2.64	2.59	2.61
17	2.68	2.57	2.63	2.84	2.72	3.13	2.77	3.00	2.12	2.76	2.58	2.60
18	2.69	2.57	2.61	2.93	2.69	3.14	2.71	3.00	2.13	2.75	2.59	2.61
19	2.66	2.55	2.59	3.14	2.70	3.13	2.74	2.99	2.13	2.75	2.61	2.62
20	2.63	2.54	2.57	3.03	2.90	3.13	2.91	2.96	2.17	2.78	2.63	2.61
21	2.65	2.54	2.55	3.16	3.00	3.13	2.93	2.84	2.25	2.63	2.62	2.65
22	2.63	2.53	2.68	3.19	3.04	3.13	2.93	2.78	2.48	2.66	2.61	2.85
23	2.67	2.54	2.99	3.10	3.06	3.11	2.93	2.73	2.30	2.61	2.61	2.87
24	2.62	2.56	3.07	2.96	3.07	3.09	2.93	2.74	2.31	2.82	2.61	2.65
25	2.57	2.60	3.11	3.10	3.11	3.12	2.92	2.78	2.27	2.87	2.73	2.62
26	2.53	2.59	3.15	3.14	3.09	3.08	2.90	2.77	2.21	2.92	2.65	2.77
27	2.51	2.58	3.17	3.05	3.15	2.90	2.89	2.75	2.15	2.95	2.63	2.77
28	2.54	2.57	3.19	2.85	3.00	2.80	3.02	2.73	2.10	2.67	2.73	2.67
29	2.59	2.55	3.20	2.75	2.97	2.74	3.01	2.70	2.25	2.50	2.80	2.63
30	2.63	2.55	3.06	2.65	---	2.70	2.91	2.68	2.40	2.49	2.73	2.62
31	2.63	---	2.95	2.56	---	2.76	---	2.65	---	2.51	2.68	---
TOTAL	---	80.38	84.71	93.07	85.82	91.38	87.11	88.53	70.48	80.75	84.49	80.68
MEAN	---	2.68	2.73	3.00	2.96	2.95	2.90	2.86	2.35	2.60	2.73	2.69
MAX	---	3.09	3.20	3.19	3.20	3.14	3.02	3.23	2.76	2.95	3.06	2.98
MIN	---	2.53	2.52	2.56	2.69	2.68	2.71	2.64	2.10	2.42	2.47	2.52

02289500 TAMIAMI CANAL NEAR CORAL GABLES, 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	---	247	203	220	331	295	185	291	160	149	265	e336
2	427	245	210	214	269	299	180	280	157	e135	e334	313
3	369	233	205	211	275	294	175	237	150	128	e377	314
4	342	235	e231	212	277	286	175	292	159	e139	389	e294
5	327	281	e224	244	306	281	174	266	156	e146	335	---
6	325	292	e221	295	344	282	174	267	158	148	340	---
7	303	e374	e217	287	344	273	176	288	220	149	326	e452
8	303	---	e214	295	313	272	178	292	249	138	324	461
9	293	---	e188	278	271	243	174	292	222	130	367	e408
10	277	---	e215	220	232	207	177	286	224	137	e358	---
11	e304	---	e238	210	219	205	179	283	215	132	e312	---
12	e357	e212	e227	208	263	202	210	277	199	126	296	---
13	e385	210	e181	206	291	201	261	232	180	135	281	e333
14	e311	219	e178	204	293	191	273	211	174	140	e294	e306
15	239	e303	e176	198	296	191	274	215	168	142	e284	303
16	e362	e272	e273	217	311	202	275	205	172	157	e282	314
17	e277	e249	e258	274	298	199	280	203	174	153	294	303
18	236	e250	e284	238	287	195	268	205	176	143	290	e318
19	226	e231	306	233	274	201	247	200	180	143	305	e319
20	214	e211	308	250	212	199	198	200	179	131	e327	e318
21	222	221	308	204	198	202	181	e235	229	176	301	309
22	244	224	257	201	197	194	184	231	279	182	e316	328
23	231	222	203	244	202	190	185	221	e253	178	e305	349
24	236	218	209	254	198	188	183	e222	e220	e175	329	e323
25	231	211	208	193	230	185	181	e190	222	151	e353	e305
26	221	210	211	186	320	229	176	168	208	139	349	e293
27	236	218	212	223	275	261	178	e178	e200	139	324	e289
28	235	212	207	246	305	260	204	169	192	249	e325	e287
29	e314	206	213	249	297	254	288	161	e169	277	e321	291
30	e360	206	273	253	---	249	289	160	143	251	e319	318
31	e303	---	275	290	---	216	---	163	---	246	329	---
TOTAL	---	---	7,133	7,257	7,928	7,146	6,282	7,120	5,787	4,964	9,951	---
MEAN	---	---	230	234	273	231	209	230	193	160	321	---
MAX	308	295	344	299	289	292	279	277	389			
MIN	176	186	197	185	174	160	143	126	265			
AC-FT	---	---	14,150	14,390	15,730	14,170	12,460	14,120	11,480	9,850	19,740	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	197	165	162	141	127	107	82.2	86.9	145	156	167	188
MEAN	197	165	162	141	127	107	82.2	86.9	145	156	167	188
MAX	398	376	346	380	329	304	286	283	303	485	344	432
(WY)	(1961)	(1960)	(1961)	(1961)	(1961)	(1983)	(1960)	(1979)	(1969)	(1991)	(1994)	(1960)
MIN	37.1	12.8	33.4	25.9	4.11	10.4	-5.43	-54.5	7.03	35.3	39.1	33.5
(WY)	(1990)	(1990)	(1990)	(1989)	(1991)	(1990)	(1975)	(1991)	(1974)	(1990)	(1965)	(1989)

SUMMARY STATISTICS

WATER YEARS 1940 - 2004

ANNUAL MEAN	139
HIGHEST ANNUAL MEAN	288
LOWEST ANNUAL MEAN	30.8
HIGHEST DAILY MEAN	1,120
LOWEST DAILY MEAN	-259
ANNUAL SEVEN-DAY MINIMUM	-127
ANNUAL RUNOFF (AC-FT)	100,600
10 PERCENT EXCEEDS	268
50 PERCENT EXCEEDS	120
90 PERCENT EXCEEDS	31

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.