

02281400 HILLSBORO CANAL NEAR MARGATE, FL

LOCATION.--Lat 26°19'48", long 80°12'45", in NW ¼ sec.36, T.47 S., R.41 E., Broward County, Hydrologic Unit 03090202, on north side of Loxahatchee Road, 0.7 mi west of U.S. Highway 441, and 5.1 mi north of Margate. (Corrected).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

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

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Prior to November 20, 2001, electronic data logger with water-stage shaft encoder and acoustic doppler velocity meter with cellular phone/radio telemetry provided by South Florida Water Management District. Use of telemetry data started in September, 1999. Digital water-stage recorder removed September 27, 1999. Electromagnetic velocity meter prior to October 1, 1999. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except estimated daily discharges, which are poor. Flow affected by regulation downstream at structure G-56 and upstream storage releases at control structures S-39 and S-39A. 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 18 complete water years of discharge (1977-89, 1996, 1998-2001).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.88 ft Apr. 25, 1979; minimum, 4.15 ft May 20, 1978.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 9.16 ft Sept. 9; minimum, 5.19 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	7.65	7.68	7.39	7.73	7.42	7.74	7.87	7.65	7.63	7.67	8.01	7.61
2	7.66	7.77	---	7.82	7.88	7.74	7.81	7.64	7.90	7.60	8.18	7.45
3	7.80	7.96	7.32	7.86	7.95	7.81	7.84	7.63	7.73	7.62	7.12	5.97
4	7.70	7.89	7.34	7.98	7.98	7.98	7.80	7.87	7.56	7.74	6.86	5.44
5	7.67	8.05	7.47	7.93	7.94	7.97	7.62	7.52	7.41	7.69	6.98	7.28
6	7.67	7.71	7.84	7.80	7.97	7.98	7.71	---	7.90	7.70	6.91	8.46
7	7.67	6.97	7.47	7.94	7.95	7.98	7.71	7.81	7.69	7.48	6.83	7.07
8	7.63	7.09	7.53	7.76	7.92	7.93	7.91	7.70	7.68	7.62	7.00	6.55
9	7.63	8.01	---	7.84	7.86	7.85	7.92	7.58	7.66	7.81	7.37	8.35
10	7.62	7.94	7.91	7.98	7.80	7.93	8.25	7.65	7.66	7.81	8.26	8.47
11	7.63	7.81	7.79	7.91	7.90	8.06	8.09	7.49	7.75	7.72	8.33	6.66
12	7.63	8.13	7.69	7.80	7.79	8.04	8.07	7.56	7.87	7.75	7.93	6.39
13	7.67	7.97	7.61	7.78	7.78	7.94	7.98	7.68	7.58	7.70	6.90	6.57
14	7.96	7.91	7.89	7.67	7.73	7.87	8.02	7.63	7.70	7.75	6.87	6.49
15	8.20	7.87	7.87	7.78	7.83	7.77	7.39	7.58	7.77	7.68	7.83	6.50
16	8.17	7.45	7.82	7.78	7.80	7.86	7.64	7.66	7.60	7.77	7.99	7.97
17	7.84	7.87	7.96	7.87	7.96	7.92	7.82	7.58	7.43	8.01	7.75	7.94
18	7.54	8.03	7.90	7.93	7.95	7.77	7.90	7.52	7.74	7.28	8.16	7.87
19	7.96	8.07	7.64	8.00	7.95	7.84	7.92	7.59	7.67	7.36	7.90	7.87
20	7.84	7.70	---	7.73	8.10	7.74	---	7.84	7.54	7.73	7.74	---
21	7.46	7.48	7.19	7.47	8.24	7.73	---	7.60	7.57	8.10	7.55	8.08
22	7.64	---	7.42	7.28	8.19	7.76	---	7.71	7.62	8.06	7.55	7.37
23	7.67	7.83	7.80	7.58	8.04	7.69	---	7.42	7.59	7.87	7.68	7.64
24	7.58	7.87	7.81	7.53	7.99	7.74	7.96	7.41	7.66	7.51	7.84	7.74
25	7.82	7.83	7.82	7.58	8.01	7.84	7.77	7.57	7.61	7.69	7.90	7.75
26	8.02	7.80	7.81	7.60	7.81	7.81	8.05	7.69	7.60	7.85	7.89	7.74
27	7.47	7.90	7.81	7.79	7.87	7.84	7.69	7.67	7.67	7.86	8.00	7.42
28	7.48	8.01	7.84	7.95	7.74	7.73	7.57	7.72	7.78	7.92	7.82	7.43
29	---	---	7.71	7.57	7.99	7.81	7.86	7.58	7.74	7.99	8.14	7.40
30	---	7.83	7.26	7.94	---	7.79	7.68	7.69	7.71	7.96	8.08	7.52
31	7.43	---	7.72	7.81	---	7.77	---	7.79	---	7.88	7.96	---
TOTAL	---	---	---	240.99	229.34	243.23	---	---	230.02	240.18	237.33	---
MEAN	---	---	---	7.77	7.91	7.85	---	---	7.67	7.75	7.66	---
MAX	---	---	---	8.00	8.24	8.06	---	---	7.90	8.10	8.33	---
MIN	---	---	---	7.28	7.42	7.69	---	---	7.41	7.28	6.83	---

EVERGLADES AND SOUTHEASTERN COASTAL AREA
02281400 HILLSBORO CANAL NEAR MARGATE, 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	575	43	101	115	e200	425	75	113	90	116	140	e205
2	599	51	e58	48	348	406	47	52	94	113	588	375
3	557	228	55	26	430	452	92	96	83	102	381	343
4	601	163	63	21	427	513	101	96	82	97	148	234
5	612	282	e43	35	441	508	155	124	126	84	212	456
6	617	322	106	71	456	493	164	e135	96	92	243	777
7	616	320	45	39	427	465	174	104	102	110	165	571
8	628	e80	41	84	396	477	103	53	82	112	127	469
9	617	174	e65	74	399	474	31	86	123	122	84	720
10	618	178	81	21	431	470	71	96	111	55	176	804
11	643	129	111	25	414	234	59	129	104	72	441	528
12	635	75	e49	98	430	47	114	119	57	109	335	407
13	629	116	e36	112	422	36	155	105	87	109	286	361
14	505	75	115	135	437	36	125	157	91	100	111	361
15	428	106	114	146	421	96	49	168	124	157	65	250
16	209	73	e37	109	417	103	100	155	94	169	e96	152
17	112	e40	42	34	466	129	69	102	147	195	89	311
18	90	45	25	108	469	67	105	150	172	84	80	173
19	43	e49	52	102	483	42	60	205	131	178	124	175
20	131	e88	e64	164	217	38	---	137	145	148	94	e140
21	91	e62	65	130	e24	39	---	145	108	124	118	374
22	54	e35	85	69	e33	76	---	199	90	177	91	402
23	67	e26	63	92	58	100	---	209	115	163	126	363
24	64	e41	79	92	54	72	64	212	126	96	239	365
25	37	e34	56	121	200	75	93	201	110	48	151	385
26	120	e27	54	116	369	59	54	218	76	71	e147	422
27	77	e13	31	68	427	47	54	96	109	62	e74	435
28	50	e17	32	66	421	39	91	62	114	46	126	462
29	e107	e15	66	84	494	74	59	71	108	67	281	454
30	e52	107	117	126	---	127	82	101	107	53	361	537
31	96	---	136	292	---	136	---	96	---	83	e96	---
TOTAL	10,280	3,014	2,087	2,823	10,211	6,355	---	3,992	3,204	3,314	5,795	12,011
MEAN	332	100	67.3	91.1	352	205	---	129	107	107	187	400
MAX	643	322	136	292	494	513	218	172	195	588	804	
MIN	37	13	25	21	24	36	52	57	46	65	140	
AC-FT	20,390	5,980	4,140	5,600	20,250	12,610	---	7,920	6,360	6,570	11,490	23,820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)

MEAN	201	207	210	246	227	198	188	140	194	211	238	243
MAX	719	671	738	541	634	708	458	452	527	624	630	518
(WY)	(2000)	(2000)	(2000)	(1998)	(1998)	(1998)	(1983)	(2000)	(2003)	(1986)	(1995)	(1995)
MIN	71.8	38.6	2.47	47.4	40.8	27.1	38.0	14.7	45.4	63.1	35.2	40.3
(WY)	(1999)	(1997)	(1997)	(1992)	(1997)	(1997)	(1997)	(1997)	(1985)	(1994)	(1996)	(1992)

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 1976 - 2004

221	
351	2000
103	1977
1,300	Oct 18, 1999
-247	Apr 25, 1979
-45	Nov 17, 1976
160,300	
543	
155	
51	

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.