

## 02289031 LEVEE 3 CANAL BELOW STRUCTURE G-155, NEAR CLEWISTON, FL

LOCATION.--Lat 26°19'48", long 80°52'48", in NW ¼ sec.7, T.48 S., R.35 E., Broward County, Hydrologic Unit 03090202, approximately 1,050 ft downstream, due east of structure G-155, 3.0 mi northeast of Snake Road, and 35 mi south of Clewiston, FL.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May to August 1992 (gage heights only), September 1992 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic velocity meter until January 17, 2002, when it was removed. Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter installed September 25, 2001. The acoustic velocity meter and acoustic doppler velocity meter were run in tandem for the period of September 25, 2001 to January 17, 2002. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow affected by structure activity at G-155 and by agricultural pumping. Gage height records revised May 1992 through September 1994, based upon new elevation for BM L-4-6 from 22.578 ft to 22.543 ft. Discharge was not revised. Revised records are available in the files of the U.S. Geological Survey. The elevation of BM L-4-6 was revised by South Florida Water Management for a second time, elevation is now 22.380 ft. Gage height records for the 1992 - 1994 water years require an adjustment of + 0.16 ft due to the revised elevation of BM L-4-6. Gage height records for the 1995 - 1996 water years require an adjustment of + 0.19 ft also due to the revised elevation of BM L-4-6.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 2 complete water year of discharge (1997, 2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.56 ft Nov. 8, 1998; minimum, 7.75 ft May 17, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.53 ft Oct. 3, Sept. 10,11; minimum, 10.48 ft May 26.

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	14.49	12.70	12.35	13.22	13.06	13.88	11.73	11.57	11.01	12.31	14.07	13.62
2	14.52	12.65	12.29	13.18	13.12	13.43	11.71	11.43	11.44	12.30	13.99	13.80
3	14.52	13.02	12.14	13.23	13.11	13.33	11.62	11.46	12.86	12.31	13.79	13.76
4	14.50	13.57	12.23	13.27	13.12	13.51	11.54	11.54	12.57	12.31	13.78	13.64
5	14.34	13.84	12.29	13.27	13.26	13.26	11.48	11.49	12.33	12.31	13.80	13.85
6	14.11	13.82	12.32	13.23	13.42	13.59	11.24	11.34	12.28	12.33	13.81	14.07
7	14.04	13.82	12.32	12.86	13.87	13.29	11.06	11.35	12.19	12.31	13.77	14.29
8	14.31	13.86	12.34	12.61	13.64	13.16	10.86	11.42	12.08	12.35	13.76	14.42
9	14.29	13.89	12.40	12.48	13.61	13.07	10.89	11.33	11.86	12.43	13.77	14.49
10	14.38	13.70	12.42	12.97	13.29	13.00	10.78	11.27	12.02	12.46	13.71	14.51
11	14.42	13.54	12.44	13.23	13.15	12.92	10.80	---	12.06	12.47	13.67	14.51
12	14.42	13.31	12.39	13.20	13.08	12.84	10.97	11.23	12.08	12.45	13.59	14.48
13	14.40	13.03	12.43	12.87	13.11	12.77	11.19	11.09	12.10	12.40	13.50	14.41
14	14.29	12.87	12.56	12.87	13.55	12.70	11.41	11.10	12.24	12.34	13.79	14.37
15	14.23	12.89	12.70	12.56	13.65	12.61	12.23	11.57	13.12	12.25	13.98	14.35
16	14.23	12.92	12.76	12.31	13.78	12.55	12.72	11.54	13.47	12.22	13.90	14.30
17	13.72	12.90	12.87	12.05	13.47	12.51	12.34	11.42	13.59	12.66	13.63	14.23
18	13.45	12.84	12.96	11.89	13.33	12.46	12.12	11.35	13.59	13.30	13.62	14.01
19	13.27	12.66	13.06	12.15	13.23	12.41	11.98	11.30	13.74	12.80	13.72	13.96
20	13.13	---	13.12	13.45	13.08	12.35	11.62	11.21	13.80	12.92	13.71	13.91
21	13.01	12.61	13.14	13.03	13.00	12.28	11.39	11.04	13.74	13.62	13.68	13.91
22	12.96	12.36	13.08	12.72	12.99	12.24	11.40	11.16	13.44	13.85	13.86	13.91
23	12.96	12.32	13.12	12.46	12.89	12.18	12.03	11.13	13.01	13.87	13.62	13.92
24	12.96	12.33	13.16	12.34	12.83	12.12	12.41	11.21	12.80	13.88	13.50	13.91
25	12.86	12.05	13.18	12.28	---	12.09	12.83	11.08	12.65	13.86	13.46	13.86
26	12.73	12.04	13.24	12.37	13.33	12.02	12.91	---	12.52	13.78	13.49	13.88
27	12.65	12.12	13.22	12.68	13.30	11.97	12.43	11.03	12.41	13.86	13.56	14.19
28	12.64	12.20	13.20	13.56	13.66	11.93	---	10.95	12.35	13.89	13.57	14.23
29	12.73	12.22	13.21	13.08	13.87	11.92	12.12	10.86	12.36	13.52	13.55	14.18
30	---	12.23	13.28	13.11	---	11.90	11.95	10.87	12.34	13.66	13.61	14.22
31	12.73	---	13.19	13.19	---	11.82	---	10.98	---	13.96	13.72	---
TOTAL	---	---	395.41	397.72	---	392.11	---	---	378.05	400.98	424.98	423.19
MEAN	---	---	12.76	12.83	---	12.65	---	---	12.60	12.93	13.71	14.11
MAX	---	---	13.28	13.56	---	13.88	---	---	13.80	13.96	14.07	14.51
MIN	---	---	12.14	11.89	---	11.82	---	---	11.01	12.22	13.46	13.62

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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	476	26	17	e-38	37	108	35	24	e-18	38	87	189
2	472	32	e-3.8	e-29	42	88	34	24	0.07	55	105	266
3	460	e-2.2	e-8.3	e-28	22	56	28	27	12	60	117	215
4	442	26	7.8	e-17	20	81	31	18	23	38	95	241
5	322	63	e-4.5	e-3.6	37	72	17	14	17	37	122	236
6	213	79	39	e-0.42	33	26	22	e-17	49	35	123	376
7	151	83	24	19	63	25	16	e-13	31	30	122	464
8	119	83	e-1.7	21	60	39	15	e-2.7	29	35	121	490
9	72	95	1.6	e-1.7	105	39	20	e-8.7	25	42	116	510
10	64	65	e-4.0	e-21	84	32	19	e-3.2	37	39	128	506
11	81	66	e-5.9	e-17	82	39	23	e-8.8	55	44	111	497
12	71	51	35	1.6	26	44	22	e-7.8	46	54	106	471
13	51	33	46	e-29	7.9	27	23	2.8	44	34	136	443
14	77	34	33	e-0.26	75	24	32	e-23	31	22	288	421
15	46	38	45	23	13	43	e-37	e-11	17	17	355	416
16	89	45	49	18	25	30	4.3	e-13	31	29	259	408
17	88	44	44	23	68	25	11	e-7.3	26	e-19	164	346
18	66	40	41	19	47	30	19	e-11	43	54	158	249
19	45	29	44	e-44	41	26	15	e-13	17	44	175	246
20	40	e39	50	6.6	11	18	15	e-7.0	21	15	193	239
21	29	31	47	17	e-12	26	24	e-12	32	52	153	239
22	39	19	e-2.0	13	9.2	17	e-18	e-13	69	91	171	243
23	38	25	e-41	20	40	15	e-51	e-13	64	82	105	248
24	34	31	e-62	21	9.5	14	e-40	e-19	47	57	94	243
25	25	23	e-46	40	e25	8.8	e-24	6.5	43	43	95	250
26	31	26	e-25	e-4.4	57	8.5	23	e-24	45	53	142	228
27	39	28	e-38	e-65	52	21	5.2	e-9.7	37	61	166	386
28	28	27	e-52	e-12	62	28	e-48	e-28	36	132	155	362
29	e31	32	e-24	30	55	27	e-3.1	e-27	39	115	134	321
30	e20	24	e-23	18	---	19	26	e-17	32	74	186	345
31	20	---	e-18	45	---	28	---	e-32	---	66	216	---
TOTAL	3,779	1,234.8	164.2	24.82	1,196.6	1,084.3	258.4	-224.9	980.07	1,529	4,698	10,094
MEAN	122	41.2	5.30	0.80	41.3	35.0	8.61	-7.25	32.7	49.3	152	336
MAX	476	95	50	45	105	108	35	27	69	132	355	510
MIN	20	-2.2	-62	-65	-12	8.5	-51	-32	-18	-19	87	189
AC-FT	7,500	2,450	326	49	2,370	2,150	513	-446	1,940	3,030	9,320	20,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

	MEAN	218	61.2	36.6	23.2	52.5	52.0	16.1	22.3	76.1	172	216	272
MAX	594	181	189	78.8	272	351	36.6	94.2	168	605	486	491	491
(WY)	(2000)	(1995)	(1998)	(1998)	(1998)	(1998)	(2003)	(1997)	(1994)	(1999)	(1998)	(1994)	(1994)
MIN	30.9	-2.04	-20.6	-7.67	-7.05	-11.2	-9.36	-7.25	3.43	46.3	43.6	65.4	65.4
(WY)	(1993)	(1998)	(1997)	(1997)	(1999)	(1999)	(1999)	(2004)	(1999)	(1993)	(2001)	(2000)	(2000)

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 1992 - 2004

ANNUAL TOTAL	24,818.29		
ANNUAL MEAN	67.8	90.7	
HIGHEST ANNUAL MEAN		114	1997
LOWEST ANNUAL MEAN		67.8	2004
HIGHEST DAILY MEAN	510	Sep 9	1,040 Jun 25, 1996
LOWEST DAILY MEAN	-65	Jan 27	-65 Jan 27, 2004
ANNUAL SEVEN-DAY MINIMUM	-41	Dec 23	-41 Dec 23, 2003
ANNUAL RUNOFF (AC-FT)	49,230		65,670
10 PERCENT EXCEEDS	220		304
50 PERCENT EXCEEDS	32		33
90 PERCENT EXCEEDS	-13		-16

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.