02289032 LEVEE 4 BELOW STRUCTURE G-88, NEAR CLEWISTON, FL

LOCATION.--Lat 26°19'52", long 80°52'48", in NW $^1/_4$ sec.7, T.48 S., R.35 E., Broward County, Hydrologic Unit 03090202, approximately 1,050 ft below structure G-88, 3.0 mi northeast of Snake Road and 35 mi south of Clewiston, FL.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Prior to October 18, 2001, satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Acoustic doppler velocity meter installed January 10, 2001. The acoustic velocity meter and acoustic doppler velocity meter were run in tandem for the period of January 10, 2001 to October 18, 2001. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by operation of G-88, pump station S-8, and by agricultural pumping. Flow reversal occurs at times, during agricultural activity. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Gage height records revised -0.04 ft May 1992 through September 1994, based upon revised 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 are now in error +0.21 ft in the files of the U.S. Geological Survey due to the revised elevation of BM L-4-6. Gage height records for the 1995-1996 water years are now in error +0.25 ft in the files of the U.S. Geological Survey due to the revised elevation of BM L-4-6.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 5 complete water years of discharge (1994, 1996-97, 2001-2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 14.72 ft July 12, 2002; minimum, 8.11 ft May 17, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 14.58 ft Oct. 3; minimum, 10.45 ft May 30.

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	---	12.65	12.30	13.18	13.01	13.79	11.68	---	10.96	12.28	14.02	13.58
2	14.57	12.60	12.25	13.14	13.07	13.36	11.66	11.40	11.40	12.26	13.96	---
3	14.57	12.97	12.10	13.18	13.07	13.27	11.57	11.43	12.82	12.28	13.76	13.72
4	14.54	13.52	12.19	13.23	13.08	13.44	11.49	11.51	12.53	12.27	---	13.63
5	14.37	13.79	12.26	13.22	13.21	---	11.43	11.46	12.30	12.27	13.77	---
6	14.12	13.78	12.28	13.18	13.37	13.52	11.17	11.32	12.25	12.30	13.78	14.04
7	14.04	13.78	12.29	12.81	13.79	13.24	11.00	11.32	12.16	12.27	13.73	14.27
8	14.30	13.81	12.31	12.58	13.56	13.11	10.80	11.38	12.06	12.31	13.72	---
9	14.28	13.86	12.35	12.44	13.54	13.02	---	11.28	11.83	12.39	13.73	14.50
10	14.37	13.66	12.38	12.92	13.24	12.95	10.71	---	11.98	12.42	13.66	14.52
11	14.40	13.50	12.40	13.18	13.09	12.86	10.73	---	12.02	12.42	13.62	14.50
12	14.40	13.28	12.35	13.15	13.03	12.78	10.91	11.20	12.04	---	13.55	14.45
13	---	12.98	12.38	12.82	13.05	12.71	11.15	11.05	---	---	13.46	14.36
14	14.27	12.82	12.51	12.82	13.48	12.64	11.37	11.06	12.20	12.28	13.75	14.32
15	14.21	12.84	12.65	12.52	13.58	12.56	12.14	11.53	13.08	12.20	13.95	14.31
16	14.21	12.87	12.71	12.27	13.69	12.50	12.62	11.51	13.43	12.17	13.87	14.26
17	13.70	12.85	12.83	12.00	13.40	12.46	12.25	11.39	13.54	12.62	13.58	14.18
18	13.43	12.79	12.93	11.85	13.27	12.41	12.03	---	13.55	13.27	13.57	13.96
19	13.25	12.62	13.02	12.10	13.18	12.36	11.90	11.27	13.71	12.79	13.68	13.89
20	13.10	---	13.08	13.39	13.03	12.30	11.56	11.18	13.76	12.91	---	13.84
21	12.99	12.57	13.10	12.96	12.96	12.23	11.33	11.00	13.70	---	13.64	13.83
22	12.94	12.33	13.04	12.67	12.94	12.19	11.37	11.13	13.41	---	13.86	13.84
23	12.93	12.28	13.08	12.42	12.84	12.13	12.00	11.09	12.97	13.80	13.60	13.85
24	12.92	---	13.12	12.30	12.79	12.08	12.37	11.17	12.76	13.80	13.48	13.84
25	12.82	12.01	13.14	12.24	13.18	12.03	12.79	11.04	12.62	13.79	13.45	13.80
26	12.70	12.00	13.20	---	13.28	11.97	12.87	---	---	13.72	---	13.81
27	12.62	12.08	13.18	12.63	13.25	11.91	12.40	10.99	12.37	13.79	---	14.12
28	12.61	12.16	13.16	13.51	13.59	11.88	---	10.90	12.32	13.83	13.54	14.16
29	12.68	12.18	13.17	13.04	13.79	11.87	12.09	10.80	12.33	13.47	---	14.11
30	12.69	12.19	13.23	13.05	---	11.85	11.92	---	---	13.61	13.58	14.16
31	12.68	---	13.15	13.14	---	11.77	---	10.93	---	13.91	13.69	---
TOTAL	---	---	394.14	---	384.36	---	---	---	---	---	---	---
MEAN	---	---	12.71	---	13.25	---	---	---	---	---	---	---
MAX	---	---	13.23	---	13.79	---	---	---	---	---	---	---
MIN	---	---	12.10	---	12.79	---	---	---	---	---	---	---

02289032 LEVEE 4 BELOW STRUCTURE G-88, NEAR CLEWISTON, 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	e216	17	-0.69	-22	14	59	-15	e3.9	-43	24	62	87
2	224	14	-16	-27	41	47	-8.6	15	-13	23	91	e127
3	219	-15	1.3	-17	50	36	-14	3.0	-8.5	21	107	95
4	207	5.3	0.35	-8.8	46	42	-10	-3.3	-0.84	24	e114	46
5	165	33	-7.6	-12	46	e35	-18	3.5	-1.1	14	110	---
6	125	44	-4.0	-17	43	13	-2.9	-17	14	8.7	109	---
7	82	46	-6.7	-4.8	35	9.4	-5.0	-19	16	-3.5	111	---
8	67	51	-8.1	7.7	33	-0.01	-12	-17	12	22	104	e249
9	50	55	3.1	-18	45	9.0	e-13	-9.4	11	42	94	262
10	46	52	-5.7	-31	32	4.4	-13	e-23	13	36	72	260
11	49	48	-12	-20	32	25	10	e-17	17	16	57	257
12	34	38	13	-2.4	5.4	29	-2.0	-19	14	e17	61	240
13	e29	-8.3	26	-39	1.2	26	-7.0	3.0	e18	e15	72	203
14	39	16	19	-28	24	21	-17	-29	7.0	-1.5	144	191
15	34	23	22	-24	-17	23	-41	-6.9	-9.8	-6.2	173	204
16	57	26	30	-16	-1.4	-6.4	0.13	-5.0	3.9	2.1	131	191
17	44	24	22	2.1	8.5	-7.8	5.6	-3.2	8.8	-29	75	164
18	21	20	27	-11	-2.0	23	18	e-9.1	-0.21	-0.65	84	115
19	16	-11	38	-51	20	19	8.3	-16	-14	6.3	102	112
20	15	e-0.61	44	-15	9.3	19	3.1	-7.5	-16	2.7	e98	89
21	6.7	8.7	46	-15	-6.1	-2.6	7.0	-28	-11	e45	84	103
22	-15	-4.2	27	-28	7.8	-7.3	-32	-26	21	e65	113	114
23	-9.8	12	5.2	e-13	21	13	-49	-27	32	46	78	112
24	24	e-5.7	-21	-10	10	17	-40	-29	36	49	65	109
25	16	-23	-26	12	1.0	20	-20	-3.3	23	25	62	72
26	17	14	-6.5	e-15	16	19	-2.8	e-44	e21	17	e74	68
27	11	16	-15	-51	14	17	-30	-29	23	36	e74	152
28	11	-5.6	-15	-25	40	23	e-23	-49	8.6	62	71	---
29	3.0	-4.2	-7.7	11	51	8.9	-6.6	-53	14	63	e68	---
30	20	11	-7.0	-2.6	---	-4.6	12	e-41	e23	67	89	---
31	18	---	-31	17	---	-8.0	---	-52	---	45	104	---
TOTAL	1,840.9	496.39	133.96	-473.8	619.7	520.99	-317.77	-554.3	218.85	752.95	2,853	---
MEAN	59.4	16.5	4.32	-15.3	21.4	16.8	-10.6	-17.9	7.29	24.3	92.0	---
MAX	224	55	46	17	51	59	18	15	36	67	173	
MIN	-15	-23	-31	-51	-17	-8.0	-49	-53	-43	-29	57	
AC-FT	3,650	985	266	-940	1,230	1,030	-630	-1,100	434	1,490	5,660	---

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

MEAN	245	67.9	71.1	52.7	28.7	15.2	-8.31	-15.0	59.4	101	70.4	221
MAX	756	242	438	290	69.7	86.0	37.4	79.5	186	218	133	676
(WY)	(1996)	(1995)	(1995)	(1995)	(1998)	(1998)	(1997)	(1997)	(1999)	(1994)	(1994)	(1995)
MIN	17.2	-6.15	-0.25	-15.3	-6.28	-30.1	-65.2	-74.7	-23.4	11.4	8.39	40.7
(WY)	(2003)	(1998)	(2001)	(2004)	(1996)	(1999)	(1999)	(1993)	(2000)	(1993)	(2000)	(2000)

SUMMARY STATISTICS	WATER YEARS 1992 - 2004	
ANNUAL MEAN	70.8	
HIGHEST ANNUAL MEAN	126	1996
LOWEST ANNUAL MEAN	28.3	2001
HIGHEST DAILY MEAN	995	Oct 21, 1995
LOWEST DAILY MEAN	-214	May 20, 2000
ANNUAL SEVEN-DAY MINIMUM	-127	May 21, 1998
ANNUAL RUNOFF (AC-FT)	51,310	
10 PERCENT EXCEEDS	177	
50 PERCENT EXCEEDS	26	
90 PERCENT EXCEEDS	-10	

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.