

## 02289027 DRAINAGE CANAL BELOW STRUCTURE G-136, NEAR CLEWISTON, FL

LOCATION.--Lat 26°40'02", long 80°56'18", in SW ¼ sec.9, T.44 S., R.34 E., Hendry County, Hydrologic Unit 03090202, approximately 1,000 ft east of structure G-136, and approximately 6 mi south of Clewiston, FL.

DRAINAGE AREA.--Indeterminate.

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

REVISED RECORDS.--WDR FL-94-2A, 1992, 1993.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Prior to February 1, 2002, acoustic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by structure activity at G-136 and by agricultural pumping. 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 4 complete water years of discharge (1996-97, 2000, 2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.88 ft Nov. 5, 1998; minimum, 9.08 ft May 21, 22, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 13.31 ft Sept. 6; minimum, 9.79 ft Sept. 25, 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	12.49	11.00	11.01	10.89	10.94	10.81	11.29	11.43	11.75	10.77	10.96	10.70
2	11.85	10.89	11.37	10.86	10.59	11.06	11.23	11.21	11.86	10.91	11.41	10.49
3	11.42	11.22	11.39	10.89	10.34	11.18	11.15	10.62	10.89	10.95	11.62	10.35
4	10.99	11.39	11.40	10.93	10.90	11.00	11.26	10.52	10.50	10.92	11.57	10.32
5	11.48	10.74	11.21	10.92	11.03	11.23	11.40	10.82	10.74	10.88	11.00	11.22
6	10.66	10.48	10.82	10.89	11.11	10.92	11.50	10.62	10.64	10.80	10.93	12.97
7	10.53	10.52	10.69	10.84	10.65	10.97	11.34	10.74	10.70	10.83	10.79	13.18
8	11.12	10.56	10.97	10.83	10.65	10.79	11.28	11.22	10.38	10.77	11.06	12.69
9	11.03	10.62	11.39	10.83	10.58	---	11.34	11.30	10.68	10.73	11.18	12.71
10	10.86	10.75	11.09	10.71	10.64	---	11.43	11.19	10.60	11.25	10.58	12.32
11	11.11	10.56	10.97	10.93	10.85	10.73	11.38	---	10.56	11.29	10.60	11.53
12	11.25	10.47	11.06	10.72	11.06	10.77	11.04	11.18	10.49	---	11.18	11.17
13	---	10.52	11.20	10.70	11.09	11.02	11.29	11.37	10.79	11.33	11.26	10.76
14	11.05	10.92	11.04	10.84	10.99	10.96	11.21	11.74	10.93	11.20	11.19	10.56
15	11.27	10.83	11.12	10.69	10.90	11.01	11.23	11.82	11.12	11.25	11.28	10.27
16	11.07	10.99	10.55	---	10.76	10.95	11.00	11.83	11.11	11.42	11.08	10.21
17	11.10	10.98	11.12	---	10.86	10.86	10.88	11.76	10.94	11.76	10.57	10.10
18	11.09	11.01	11.06	---	10.81	10.68	10.79	11.72	10.59	11.71	10.38	10.33
19	11.28	11.06	10.59	---	10.86	10.76	10.61	11.67	10.76	11.82	10.70	10.50
20	11.35	---	10.82	---	10.88	10.85	10.67	11.73	10.87	10.84	10.48	10.80
21	11.19	10.88	10.94	10.89	10.85	10.89	10.78	11.64	10.90	---	10.18	10.98
22	11.07	10.66	10.92	10.70	10.82	10.91	10.68	11.71	10.73	10.56	10.16	11.25
23	11.03	10.68	10.85	10.89	10.92	11.39	10.88	11.72	10.55	10.64	10.10	10.96
24	10.94	10.93	10.86	11.04	10.81	11.40	11.40	11.66	10.53	11.08	10.33	10.65
25	11.06	11.03	10.87	11.16	10.92	11.19	11.38	11.69	10.59	10.80	10.45	10.17
26	10.98	11.05	10.86	11.22	11.20	11.48	11.19	---	10.60	10.62	10.37	11.33
27	11.14	10.94	10.88	11.13	10.97	11.33	11.30	11.56	10.74	10.76	10.33	12.17
28	11.18	10.81	10.85	10.69	11.05	11.14	---	11.64	10.75	11.01	10.13	11.70
29	11.22	10.73	10.90	10.87	10.98	11.16	10.78	11.67	10.86	10.31	10.25	11.05
30	---	10.83	10.90	10.96	---	11.25	10.93	11.70	10.90	10.26	10.55	10.95
31	11.15	---	10.89	11.37	---	11.15	---	11.60	---	10.43	10.87	---
TOTAL	---	---	340.59	---	315.01	---	---	---	324.05	---	333.54	334.39
MEAN	---	---	10.99	---	10.86	---	---	---	10.80	---	10.76	11.15
MAX	---	---	11.40	---	11.20	---	---	---	11.86	---	11.62	13.18
MIN	---	---	10.55	---	10.34	---	---	---	10.38	---	10.10	10.10

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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	244	3.7	-6.0	0.42	5.5	12	-5.6	-3.9	-13	-0.08	30	80
2	220	0.69	1.5	1.2	29	13	-4.9	2.1	-2.7	4.3	62	86
3	191	-1.6	3.5	-1.3	28	7.6	-4.4	3.8	6.9	4.1	88	93
4	163	-0.01	-1.4	-1.8	25	5.4	-5.1	0.81	-1.8	1.6	88	103
5	131	-0.12	-0.03	0.86	7.5	5.2	1.7	3.1	2.7	2.1	78	219
6	94	-0.24	-4.8	4.7	10	5.3	1.6	0.74	8.3	1.2	62	331
7	66	2.7	-3.3	0.77	6.6	-7.7	-2.0	-0.14	0.51	-4.8	74	330
8	61	2.1	4.6	-0.50	2.0	0.11	1.3	-0.32	-2.0	2.6	63	314
9	48	2.5	4.0	1.3	-0.29	e0.00	-1.1	1.6	-0.89	-0.93	67	335
10	41	4.5	-1.6	-1.9	3.1	e0.00	1.2	0.99	8.5	2.5	54	287
11	37	3.7	-3.9	2.0	3.6	-0.21	4.3	e-3.7	35	-1.6	58	235
12	6.5	0.67	-2.1	1.1	-2.9	-0.62	-2.8	-2.1	50	e2.4	104	195
13	e12	1.1	2.9	2.0	3.2	2.8	-2.0	0.93	32	0.14	109	150
14	17	1.2	-1.8	-3.6	-0.13	6.8	-5.6	0.57	35	-2.0	138	115
15	12	0.03	4.6	-2.3	-1.7	-3.6	4.7	-1.7	37	-3.6	150	86
16	0.94	-0.62	-4.3	e0.00	5.9	1.5	0.07	2.0	25	-3.0	132	77
17	2.9	1.2	-3.7	e0.00	1.2	-2.9	1.8	-2.1	21	-5.3	97	81
18	5.1	-2.2	-0.14	e0.00	0.07	-1.3	4.4	2.2	14	17	70	103
19	8.2	0.38	-1.2	e0.00	3.4	1.2	0.68	0.55	-1.1	41	63	131
20	1.6	e0.22	-0.91	e0.00	2.0	6.0	0.24	2.1	-7.0	46	53	145
21	6.4	3.2	1.6	1.0	-0.36	-0.17	0.10	-34	-0.66	e47	42	165
22	-2.1	1.2	3.9	-4.1	4.2	4.4	-2.7	-22	2.2	45	30	185
23	-3.1	-1.0	4.1	-4.4	1.8	6.6	-2.2	-22	3.6	37	28	150
24	1.6	3.4	4.5	-0.20	-0.77	8.2	3.3	-3.3	-2.6	19	28	128
25	1.6	2.3	0.11	3.6	-1.8	8.4	-2.1	-14	3.3	8.7	28	88
26	-0.47	-0.50	2.1	-2.9	12	10	-1.4	e-1.1	3.2	14	42	164
27	8.5	-3.7	2.0	10	27	6.0	-1.7	-15	-1.7	15	67	236
28	-0.04	-1.6	2.5	-2.3	33	0.80	e3.7	-40	0.59	42	63	205
29	0.37	-1.7	-1.5	-0.35	23	2.8	-0.37	-30	-0.19	33	70	176
30	e4.5	0.92	2.3	1.0	---	0.81	-5.1	-26	-1.7	24	89	147
31	4.0	---	2.8	4.2	---	-1.1	---	-36	---	27	88	---
TOTAL	1,383.50	22.42	10.33	8.50	229.12	97.32	-19.98	-235.87	253.46	415.33	2,215	5,140
MEAN	44.6	0.75	0.33	0.27	7.90	3.14	-0.67	-7.61	8.45	13.4	71.5	171
MAX	244	4.5	4.6	10	33	13	4.7	3.8	50	47	150	335
MIN	-3.1	-3.7	-6.0	-4.4	-2.9	-7.7	-5.6	-40	-13	-5.3	28	77
AC-FT	2,740	44	20	17	454	193	-40	-468	503	824	4,390	10,200

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

	51.9	23.9	23.4	20.5	25.5	19.7	12.1	15.8	36.5	43.3	56.7	69.5
MEAN	51.9	23.9	23.4	20.5	25.5	19.7	12.1	15.8	36.5	43.3	56.7	69.5
MAX	138	113	84.1	77.3	73.6	38.2	19.6	33.9	116	127	131	171
(WY)	(1996)	(1999)	(1995)	(1995)	(1998)	(1998)	(1997)	(1996)	(1996)	(2002)	(1997)	(2004)
MIN	7.27	0.12	0.04	0.27	7.90	3.14	-0.67	-7.61	8.45	6.54	14.4	15.5
(WY)	(1993)	(1993)	(1993)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1993)	(2000)	(1996)

SUMMARY STATISTICS

	FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004	
ANNUAL TOTAL	9,519.13			
ANNUAL MEAN	26.0		29.3	
HIGHEST ANNUAL MEAN			42.0	1996
LOWEST ANNUAL MEAN			21.1	1993
HIGHEST DAILY MEAN	335	Sep 9	376	Oct 17, 1995
LOWEST DAILY MEAN	-40	May 28	-40	May 28, 2004
ANNUAL SEVEN-DAY MINIMUM	-23	May 27	-23	May 27, 2004
ANNUAL RUNOFF (AC-FT)	18,880		21,250	
10 PERCENT EXCEEDS	90		73	
50 PERCENT EXCEEDS	2.1		15	
90 PERCENT EXCEEDS	-3.0		0.00	

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.