

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

LOCATION.--Lat 26°45'14", long 80°55'07", in NW 1/4 sec.14, T.43 S., R.34 E., Hendry County, Hydrologic Unit 03090202, on concrete wall inside lock chamber of structure S-310 (HGS-2) in Okeechobee Waterway, and 0.8 mi north of U.S. Highway 27 near Clewiston.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1979, at datum 0.24 ft lower. Prior to April 19, 2001, acoustic velocity meter at same site and datum. Prior to October 19, 1992, water-stage recorder and electromagnetic velocity meter at site. Prior to October 1982, water-stage recorder 0.4 mi downstream of S-310 (HGS-2) on south side of U.S. Highway 27 bridge. August 1976 to September 1979, deflection velocity meter recorder on south side of U.S. Highway 27 bridge.

REMARKS.--Records poor. Discharge computed from relations between stage vs. area and index velocity vs. mean channel velocity. Flow regulated by hurricane gate at Lake Okeechobee. Prior to October 19, 1992, electromagnetic velocity meter at site.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 11 complete water years of discharge (1977-79, 1983-87, 1990, 1994, 2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 19.17 ft Mar. 7, 1983; minimum, 8.73 ft May 23, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 17.57 ft Oct. 3; minimum, 10.88 ft Sept. 5.

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	17.21	16.56	16.09	15.76	15.50	15.42	14.63	13.92	12.63	12.69	12.28	13.79
2	17.24	16.53	16.10	15.76	15.53	15.42	14.62	13.85	12.69	12.66	12.31	13.95
3	17.24	16.39	16.00	15.76	15.56	15.43	14.55	13.89	12.72	12.60	12.37	14.15
4	17.19	16.41	15.90	15.73	15.58	15.40	14.52	14.17	12.63	12.56	12.44	14.98
5	17.19	16.38	15.92	15.71	15.55	15.35	14.53	14.12	12.65	12.56	12.49	13.06
6	17.17	16.39	16.10	15.79	15.50	15.34	14.50	14.05	12.70	12.53	12.56	14.12
7	17.14	16.44	16.01	16.13	15.51	15.35	14.39	13.93	12.76	12.58	12.65	14.51
8	17.14	16.47	15.93	15.78	15.81	15.43	---	13.90	12.75	12.53	12.67	14.70
9	17.13	16.57	15.88	15.67	15.48	15.40	14.34	13.89	12.76	12.46	12.77	14.89
10	17.07	16.61	15.80	15.86	15.45	15.43	14.33	13.81	12.76	12.46	12.77	15.04
11	17.03	16.54	15.86	15.92	15.42	15.38	14.29	13.75	12.77	12.46	12.73	15.18
12	16.99	16.45	15.86	15.65	15.38	15.24	14.30	13.71	12.81	12.38	12.71	15.26
13	16.98	16.38	15.82	15.58	15.42	15.26	13.88	13.72	12.82	12.30	12.45	15.30
14	16.91	16.50	15.83	15.55	15.33	15.26	14.38	13.69	12.82	12.27	12.84	15.36
15	17.04	16.31	16.04	15.49	15.35	15.16	14.48	13.66	12.87	12.23	13.06	15.32
16	17.00	16.30	15.93	15.50	15.46	15.05	14.52	13.61	12.90	12.22	13.11	15.34
17	16.86	16.27	15.95	15.49	15.43	15.18	14.50	13.58	12.98	12.22	13.14	15.43
18	16.93	16.23	16.03	15.46	15.60	15.19	14.43	---	12.85	12.18	13.14	15.48
19	16.93	16.16	15.96	15.54	15.43	15.20	14.36	13.48	12.75	12.20	13.18	15.66
20	16.91	16.40	16.03	15.63	15.34	15.20	14.28	13.43	12.80	12.29	13.21	15.87
21	16.79	16.29	16.05	15.59	15.30	15.07	14.23	13.37	12.80	12.40	13.24	16.11
22	16.74	16.22	15.93	15.56	15.29	15.26	14.18	13.27	12.79	12.47	13.26	16.01
23	16.73	16.17	15.86	15.59	15.25	15.40	14.20	13.23	12.82	12.45	13.27	16.10
24	16.72	16.12	15.84	15.49	15.18	15.19	14.16	13.21	12.85	12.42	13.35	16.19
25	16.67	16.09	15.94	15.42	15.37	15.06	14.11	13.14	12.81	12.37	13.43	16.29
26	16.59	16.09	15.96	15.38	15.33	15.02	14.02	13.00	12.76	12.34	13.49	15.22
27	16.50	16.08	15.92	15.37	15.54	14.93	14.03	12.94	12.78	12.38	13.52	16.75
28	16.41	16.06	15.86	---	15.65	14.87	14.27	12.86	12.75	12.40	13.54	17.04
29	16.59	16.45	15.79	---	15.49	14.92	14.13	12.84	12.75	12.41	13.54	17.27
30	16.65	16.17	15.77	---	---	14.78	14.00	12.77	12.74	12.47	13.62	17.44
31	16.57	---	15.76	15.55	---	---	---	12.69	---	12.36	13.66	---
TOTAL	524.26	490.03	493.72	---	448.03	---	---	---	383.27	384.85	402.80	461.81
MEAN	16.91	16.33	15.93	---	15.45	---	---	---	12.78	12.41	12.99	15.39
MAX	17.24	16.61	16.10	---	15.81	---	---	---	12.98	12.69	13.66	17.44
MIN	16.41	16.06	15.76	---	15.18	---	---	---	12.63	12.18	12.28	13.06

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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	0.87	43	71	43	-182	-7.4	144	8.2	---	---	---	---
2	-0.62	26	47	109	-140	14	139	46	---	---	---	35
3	0.97	7.8	5.1	95	-54	54	37	12	---	---	---	-3.5
4	14	-7.1	53	52	-9.5	44	26	11	---	---	---	-5.5
5	4.8	2.4	-0.57	36	-0.48	89	167	-14	---	---	---	19
6	14	9.7	38	55	14	137	144	35	---	---	---	200
7	19	3.1	-7.9	53	24	3.2	250	75	---	---	---	248
8	17	0.24	7.8	50	19	73	---	72	---	---	---	216
9	4.5	-7.8	12	48	41	88	107	38	---	---	---	212
10	43	-1.6	54	116	81	110	133	114	---	---	---	213
11	46	25	34	83	23	75	103	171	---	---	---	126
12	38	55	-0.61	122	31	61	-32	203	---	---	---	98
13	68	72	10	113	11	83	-162	198	---	---	---	55
14	65	109	8.8	42	-0.46	28	-97	105	---	---	---	15
15	63	89	4.5	120	0.35	31	-22	34	---	---	---	26
16	73	109	5.3	-10	6.8	56	-12	60	---	---	---	30
17	73	78	-3.5	42	3.0	93	16	95	---	---	---	41
18	54	55	-15	8.6	2.6	137	97	---	---	---	---	44
19	37	24	0.40	-83	2.5	210	118	226	---	---	---	83
20	61	8.1	-9.6	-87	53	148	226	279	---	---	---	166
21	111	47	-5.1	2.0	100	80	137	323	---	---	---	39
22	75	58	3.9	-23	69	120	261	295	---	---	---	-16
23	63	87	11	14	72	84	197	259	---	---	---	-30
24	47	91	8.6	58	35	149	160	213	---	---	---	-31
25	43	90	-8.7	30	-87	163	37	412	---	---	---	-34
26	68	107	-0.80	4.6	-139	59	121	370	---	---	---	1.9
27	46	54	28	-34	-123	124	98	---	---	---	---	-18
28	55	69	81	---	-76	188	25	---	---	---	---	-14
29	20	123	71	---	2.2	139	43	---	---	---	---	2.9
30	58	109	143	---	---	140	38	---	---	---	---	10
31	80	---	99	-161	---	---	---	---	---	---	---	---
TOTAL	1,361.52	1,534.84	744.62	---	-220.99	---	---	---	---	---	---	---
MEAN	43.9	51.2	24.0	---	-7.62	---	---	---	---	---	---	---
MAX	111	123	143	---	100	---	---	---	---	---	---	---
MIN	-0.62	-7.8	-15	---	-182	---	---	---	---	---	---	---
AC-FT	2,700	3,040	1,480	---	-438	---	---	---	---	---	---	---

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

MEAN	41.9	54.8	54.8	51.8	65.5	89.2	120	113	40.9	10.7	2.06	17.1
MAX	194	315	438	467	474	472	448	366	399	245	219	232
(WY)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1986)	(2002)	(1998)	(1984)	(1987)	(1987)
MIN	-93.6	-27.6	-122	-120	-63.7	-42.3	-50.3	-92.3	-168	-114	-153	-119
(WY)	(1994)	(1979)	(1998)	(1992)	(1992)	(1992)	(1991)	(1978)	(2002)	(2002)	(1978)	(2001)

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

62.9	
232	1987
-30.2	1978
740	Feb 24, 1989
-1,400	Jul 4, 1984
-465	Jun 12, 2002
45,570	
294	
21	
-62	

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.