

261543080495000 L28 CANAL ABOVE S-140 NEAR CLEWISTON, FL

LOCATION.--Lat 26°15'43", long 80°49'50", in SW ¼ sec. 34, T.48 S., R.35 E., Broward County, Hydrologic Unit 03090202, Florida, on east bank, 500 ft upstream from the northern boundary of the Miccosukee Tribe of Florida and inside the southern boundary of the Big Cypress Seminole Indian Reservation, 3.1 mi east of the intersection of the Broward, Collier and Hendry county lines, 6.0 mi north of Pump Station S-140, 6.9 mi north of U.S. Interstate 75, and 33 mi south of Clewiston on the Levee 28 canal.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1997 to current year.

GAGE.--Electronic data logger with water-stage shaft encoder and acoustic velocity meter with cellular phone/radio telemetry provided by South Florida Management District. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for discharge below 100 cfs and estimated discharges, which are poor. Flow affected by G-89 and U.S. Sugar Outfall (USSO) culvert structures upstream and pump structure S-140 downstream. Positive flow is to the south. Discharge computed from continuous velocity record obtained from acoustic velocity meter and relations between stage vs. area and index velocity vs. mean channel velocity.

COOPERATION.--Seminole Tribe of Florida.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 4 complete water years of discharge (1998-2000, 2002).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 12.06 ft Oct. 16, 1999; minimum, 7.84 ft Mar. 7, 2002.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.41 ft July 30; minimum, 8.56 ft Oct. 25.

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	9.60	10.11	9.97	10.75	10.21	10.48	10.57	10.50	9.66	9.69	9.61	9.54
2	9.52	9.74	10.01	10.06	9.84	10.08	10.54	10.47	9.91	9.62	9.46	9.58
3	9.66	10.09	10.39	10.18	10.33	10.37	10.52	10.49	10.54	10.34	9.62	9.60
4	9.60	9.97	10.60	10.55	10.09	10.80	10.49	10.65	10.75	9.96	9.57	9.61
5	9.43	9.84	9.94	9.91	10.43	10.18	10.45	10.65	10.58	10.34	9.62	9.93
6	9.52	9.85	9.99	10.01	10.06	10.36	10.42	10.64	10.55	10.07	9.59	9.90
7	9.43	9.69	10.33	10.44	10.33	10.70	10.41	10.62	10.46	9.65	9.69	9.62
8	9.55	10.34	10.51	10.64	10.71	10.0	10.41	10.61	10.48	10.14	10.30	9.62
9	10.14	9.98	10.66	9.96	10.09	10.11	10.38	10.56	10.57	9.85	9.60	9.65
10	9.95	9.71	9.98	9.96	10.29	10.56	10.36	10.52	10.78	10.05	9.54	9.66
11	9.86	9.50	10.04	10.35	10.74	10.73	10.37	10.50	10.23	10.44	9.53	9.60
12	9.76	9.43	9.64	10.55	10.85	10.01	10.45	10.48	10.02	9.92	9.47	9.58
13	9.77	9.39	9.71	10.67	10.21	10.07	10.69	10.43	10.01	10.06	9.59	9.98
14	9.76	9.37	10.18	10.75	10.53	10.43	10.75	10.36	10.11	9.65	9.49	9.94
15	9.77	9.90	9.81	10.01	10.80	10.62	10.72	10.30	10.15	9.71	9.52	9.96
16	9.81	10.42	10.00	10.04	10.89	9.93	10.74	10.25	10.40	9.56	9.60	9.93
17	9.91	9.91	9.72	10.37	---	10.00	10.73	10.22	10.21	10.31	9.44	9.93
18	9.85	10.13	9.87	10.62	---	10.42	10.69	10.22	10.09	10.11	9.65	9.80
19	9.72	9.86	9.53	10.79	---	9.76	10.67	10.17	10.19	10.03	9.79	10.06
20	9.67	10.04	9.69	10.18	---	9.70	10.66	10.11	10.18	10.23	9.60	10.03
21	9.71	9.90	10.14	10.31	10.29	10.06	10.67	10.06	10.19	10.27	9.69	9.89
22	9.64	10.15	10.35	10.62	10.65	10.23	10.66	10.04	10.05	10.27	10.33	9.61
23	9.54	10.46	10.59	9.93	10.76	10.35	10.66	9.98	9.93	10.18	10.16	9.33
24	9.43	10.64	9.93	9.93	10.03	10.45	10.65	9.92	9.71	9.95	9.97	9.34
25	9.23	10.0	9.93	10.32	10.25	10.51	10.62	9.88	9.53	9.98	9.65	9.33
26	9.92	9.53	10.33	10.53	10.45	10.55	10.61	9.88	9.44	9.94	9.65	9.10
27	9.69	9.79	10.60	10.69	10.18	10.60	10.59	9.83	9.37	10.13	9.65	9.79
28	10.09	10.20	10.67	10.23	9.73	10.59	10.44	9.78	9.93	10.79	9.60	9.80
29	9.87	10.43	10.28	10.24	9.89	10.58	10.45	9.73	10.28	10.11	9.60	10.20
30	10.20	10.60	10.40	9.86	---	10.58	10.49	9.68	9.82	10.75	9.68	9.67
31	9.83	---	10.67	10.45	---	10.58	---	9.65	---	9.51	9.67	---
TOTAL	301.43	298.97	314.46	319.90	---	320.39	316.86	317.18	304.12	311.61	299.93	291.58
MEAN	9.72	9.97	10.14	10.32	---	10.34	10.56	10.23	10.14	10.05	9.68	9.72
MAX	10.20	10.64	10.67	10.79	---	10.80	10.75	10.65	10.78	10.79	10.33	10.20
MIN	9.23	9.37	9.53	9.86	---	9.70	10.36	9.65	9.37	9.51	9.44	9.10

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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	517	30	92	46	118	88	2.7	33	36	127	347	400
2	495	93	25	108	112	117	-40	15	77	119	388	351
3	459	63	15	43	54	88	-32	15	78	118	373	352
4	467	124	62	79	139	120	-25	-1.5	142	153	359	338
5	431	143	93	117	101	114	-38	-4.2	149	61	386	460
6	401	140	27	9.5	141	89	31	-25	135	155	363	478
7	394	128	15	39	50	63	54	12	123	131	342	440
8	318	51	25	29	52	94	47	27	126	95	408	456
9	335	122	36	99	114	40	42	-9.0	152	132	353	462
10	304	121	109	31	77	33	-11	22	189	65	335	432
11	297	115	26	23	133	39	35	34	245	50	335	403
12	278	108	100	16	133	109	---	29	232	110	273	404
13	251	107	55	29	115	13	---	30	201	83	223	344
14	224	97	38	36	59	15	---	17	193	133	264	364
15	226	45	97	96	75	78	21	17	218	60	250	317
16	201	57	76	14	49	109	0.78	7.9	230	122	307	320
17	189	103	127	48	e109	7.9	-14	9.1	236	110	292	287
18	165	81	33	39	e42	35	-32	-12	214	165	340	263
19	153	111	101	57	e42	85	-27	-5.2	242	115	462	233
20	145	38	41	107	e111	9.2	-12	-27	216	146	482	242
21	133	83	23	13	46	-42	65	-26	221	145	487	251
22	129	18	10	24	31	-25	47	-14	220	136	650	246
23	127	41	69	104	77	-1.6	42	18	198	146	585	234
24	121	60	113	13	114	14	34	-26	195	155	518	174
25	114	118	18	42	47	-12	57	-35	143	152	521	224
26	65	78	27	47	113	-17	76	7.5	161	135	508	188
27	136	62	21	73	124	-11	37	28	152	138	487	266
28	79	70	33	86	121	-24	6.0	51	72	282	460	238
29	130	22	75	48	67	-32	8.9	50	94	247	483	263
30	40	14	84	115	---	-10	27	56	125	306	449	283
31	124	---	52	47	---	37	---	54	---	265	435	---
TOTAL	7,448	2,443	1,718	1,677.5	2,566	1,222.5	---	347.6	5,015	4,357	12,465	9,713
MEAN	240	81.4	55.4	54.1	88.5	39.4	---	11.2	167	141	402	324
MAX	517	143	127	117	141	120	---	56	245	306	650	478
MIN	40	14	10	9.5	31	-42	---	-35	36	50	223	174
AC-FT	14,770	4,850	3,410	3,330	5,090	2,420	---	689	9,950	8,640	24,720	19,270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	228	103	50.5	35.1	46.6	36.8	15.4	23.6	132	174	197	204
MAX	495	287	140	67.0	102	125	42.2	98.6	242	407	402	324
(WY)	(2000)	(1999)	(1998)	(1998)	(1998)	(1998)	(2003)	(1997)	(1999)	(2002)	(2004)	(1999)
MIN	59.3	9.04	2.72	-3.51	-7.12	-10.2	0.98	-9.62	3.17	59.4	49.6	115
(WY)	(1998)	(1998)	(2001)	(2000)	(2000)	(1997)	(2000)	(2001)	(2000)	(2000)	(2000)	(2000)

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 1997 - 2004

98.4
129
71.3
853
-77
-37
71,270
276
54
-13

2002
2000
Oct 5, 2000
Apr 24, 2002
May 8, 2001

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.