

262007080321500 S-150 AT TERRYTOWN, FL

LOCATION.--Lat 26°20'07", long 80°32'15", in NW ¼ sec.27, T.47 S., R.38 E., Palm Beach County, Hydrologic Unit 03090202, 175 ft downstream of S-150, on the west side of U.S. Highway 27, 18.6 mi north of U.S. Interstate 595.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1990 to current year. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter. Prior to January 29, 2002, satellite data collection platform with water-stage shaft encoder and acoustic velocity meter. Satellite data collection platform with water-stage shaft encoder and acoustic doppler velocity meter installed May 24, 2001. The acoustic velocity meter and acoustic doppler velocity meter were run in tandem for the period of May 24, 2001 to January 29, 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 regulated by sluice gates upstream at S-150. Flow occasionally reversed during and after periods of heavy rainfall by pumpage at S-7 which may draw water through S-150 gates.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 8 complete water years of discharge (1994-95, 1997-98, 2000, 2002-04).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 13.50 ft Nov. 2, 1999; minimum, 7.17 ft Apr. 18, 1991.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 12.64 ft Sept. 26; minimum, 7.67 ft June 3.

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	11.94	11.40	10.86	10.40	10.32	9.83	9.02	8.63	7.82	8.14	10.79	11.20
2	11.93	11.37	10.83	10.37	10.57	9.79	8.97	8.61	7.78	8.18	10.55	11.21
3	11.93	11.42	10.81	10.35	10.54	9.74	8.95	8.67	8.46	8.19	10.31	11.24
4	11.92	11.41	10.82	10.33	10.61	9.72	8.92	8.93	9.06	8.24	10.08	11.28
5	11.91	11.46	10.78	10.30	10.65	9.71	8.88	---	8.01	8.26	10.13	11.58
6	11.90	11.56	10.77	10.26	10.67	9.65	8.87	8.78	8.00	8.31	10.23	11.62
7	11.89	11.57	10.74	10.18	10.66	9.59	8.86	8.75	8.61	8.30	10.34	11.65
8	11.88	11.54	10.71	10.17	10.52	9.52	8.85	8.73	9.98	8.29	10.45	11.70
9	11.86	11.51	10.69	10.16	10.25	9.50	8.79	8.68	10.11	8.26	10.35	11.75
10	11.85	11.49	10.70	10.10	10.27	9.45	8.77	8.67	9.85	8.21	10.45	11.78
11	11.84	11.46	10.72	10.05	---	9.40	8.83	8.64	9.34	8.26	10.37	11.82
12	11.82	11.42	10.72	10.07	10.04	9.37	9.37	8.60	8.26	8.31	10.39	11.85
13	11.80	11.39	10.72	10.06	10.01	9.33	9.61	8.55	8.16	8.22	10.51	11.88
14	11.80	11.36	10.81	10.06	10.04	9.30	9.62	8.51	8.55	8.16	10.60	11.92
15	11.78	11.34	11.06	10.03	9.99	9.31	10.61	8.48	9.43	8.14	10.82	11.96
16	11.75	11.31	10.84	10.02	9.95	9.32	9.64	8.45	8.99	8.71	10.79	12.00
17	11.72	11.28	10.88	10.03	9.92	9.24	9.00	8.44	8.66	10.69	10.78	12.03
18	11.70	11.26	11.00	10.05	9.85	9.28	8.95	8.39	8.94	10.72	10.81	12.09
19	11.67	11.24	10.80	10.06	9.85	9.26	8.93	8.37	9.09	10.42	10.87	12.14
20	11.64	11.21	---	10.04	9.84	9.24	8.90	8.32	10.04	---	10.89	---
21	11.62	11.17	10.70	10.03	9.82	9.22	8.90	8.28	10.07	10.35	10.90	12.22
22	11.59	11.14	10.67	10.02	9.79	9.18	8.88	8.19	9.44	10.41	10.93	12.22
23	11.57	11.11	10.65	10.0	9.79	9.12	8.82	8.13	8.31	10.49	10.98	12.22
24	11.54	11.08	10.62	9.99	10.06	9.10	8.81	8.05	8.15	10.65	11.00	12.22
25	11.52	11.05	10.58	10.01	10.03	9.09	8.77	8.00	8.05	10.65	11.05	---
26	11.50	11.03	10.56	10.01	10.04	9.09	8.78	8.01	8.00	10.62	11.12	12.53
27	11.47	11.00	10.53	10.01	9.88	9.09	8.70	8.00	7.87	10.72	11.21	12.47
28	11.45	10.98	10.51	9.93	9.80	9.08	8.60	7.97	7.78	10.68	11.19	12.43
29	11.46	10.93	10.49	9.95	9.82	9.05	8.62	7.93	7.75	10.18	11.20	---
30	---	10.90	10.46	10.28	---	9.07	8.64	7.90	7.84	10.59	11.20	12.52
31	11.42	---	10.42	10.50	---	9.08	---	7.86	---	10.45	11.21	---
TOTAL	---	338.39	---	313.82	---	289.72	269.86	---	260.40	---	332.50	---
MEAN	---	11.28	---	10.12	---	9.35	9.00	---	8.68	---	10.73	---
MAX	---	11.57	---	10.50	---	9.83	10.61	---	10.11	---	11.21	---
MIN	---	10.90	---	9.93	---	9.05	8.60	---	7.75	---	10.08	---

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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	-3.4	13	15	34	82	28	9.2	24	17	15	231	-2.8
2	-1.7	9.1	15	32	268	27	9.3	23	17	15	12	-9.2
3	-1.8	19	22	30	239	26	11	23	255	13	13	-18
4	2.7	8.4	30	32	320	26	9.1	17	234	15	25	-8.5
5	-1.7	3.7	28	33	324	27	9.7	e15	12	14	30	17
6	-2.7	4.3	16	28	331	26	17	16	12	15	21	15
7	-3.0	-0.33	16	23	315	21	20	19	219	15	105	3.4
8	1.9	8.8	14	24	207	13	20	19	488	14	119	-4.6
9	3.1	12	20	28	113	15	18	18	496	13	119	-5.3
10	4.1	14	29	21	120	17	18	19	439	14	116	-1.9
11	-0.20	8.5	17	18	e35	17	20	19	258	12	45	4.6
12	-2.6	2.4	19	22	34	17	233	19	15	13	16	16
13	-2.4	0.79	30	21	30	19	177	18	13	15	18	13
14	-3.0	9.4	121	11	35	21	265	17	198	14	14	3.9
15	6.2	9.5	232	11	29	22	521	19	384	14	17	14
16	5.1	12	17	7.6	19	21	162	18	192	194	11	2.5
17	9.0	9.2	148	16	13	17	22	18	206	654	2.4	-11
18	6.9	32	230	18	16	20	24	18	182	604	2.4	-4.9
19	9.8	23	9.0	16	22	19	23	19	318	426	-0.49	-3.4
20	9.8	15	e4.6	10	27	19	25	18	488	e363	0.16	e0.40
21	2.7	6.3	3.4	10	26	21	26	20	477	475	-6.8	2.3
22	4.0	7.6	8.2	8.2	22	16	24	17	237	506	-5.6	9.3
23	8.9	10	15	9.6	28	14	27	18	16	510	1.0	1.0
24	10	9.7	13	11	190	18	28	19	14	571	-6.0	-0.72
25	13	5.7	15	21	118	19	27	19	13	541	0.03	e-1.6
26	14	28	14	31	68	19	26	18	12	510	-0.75	16
27	4.0	36	18	25	16	20	24	18	8.6	455	-5.0	-5.1
28	10	35	21	11	14	18	19	17	11	271	-2.6	-13
29	4.5	22	22	19	18	17	20	15	13	209	-2.9	e-0.01
30	e13	30	22	273	---	15	23	18	12	361	5.2	-7.3
31	13	---	32	194	---	16	---	16	---	311	-4.4	---
TOTAL	133.20	404.06	1,216.2	1,048.4	3,079	611	1,857.3	571	5,256.6	7,172	888.65	21.07
MEAN	4.30	13.5	39.2	33.8	106	19.7	61.9	18.4	175	231	28.7	0.70
MAX	14	36	232	273	331	28	521	24	496	654	231	17
MIN	-3.4	-0.33	3.4	7.6	13	13	9.1	15	8.6	12	-6.8	-18
AC-FT	264	801	2,410	2,080	6,110	1,210	3,680	1,130	10,430	14,230	1,760	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

MEAN	7.28	8.52	32.6	88.5	130	95.0	143	130	109	87.0	33.4	5.39
MAX	84.7	94.6	231	378	523	514	566	602	390	408	152	91.3
(WY)	(2003)	(1998)	(1997)	(2003)	(1992)	(1992)	(1992)	(1992)	(1992)	(2000)	(1998)	(1993)
MIN	-49.0	-50.0	-50.0	-50.0	-21.1	-13.7	-15.9	-0.92	-0.70	-22.1	-31.6	-52.0
(WY)	(1995)	(1995)	(1995)	(1995)	(1995)	(1995)	(1993)	(2000)	(1993)	(1992)	(1992)	(1992)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1991 - 2004

ANNUAL TOTAL	26,979.26	22,258.48	
ANNUAL MEAN	73.9	60.8	58.5
HIGHEST ANNUAL MEAN			101
LOWEST ANNUAL MEAN			-6.29
HIGHEST DAILY MEAN	590	Jan 14	850
LOWEST DAILY MEAN	-9.2	Sep 14	-108
ANNUAL SEVEN-DAY MINIMUM	-3.9	Sep 22	-82
ANNUAL RUNOFF (AC-FT)	53,510		42,400
10 PERCENT EXCEEDS	379		283
50 PERCENT EXCEEDS	15		5.5
90 PERCENT EXCEEDS	1.4		-22

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.