

265708080093700 HOBE DITCH TRIBUTARY TO LOXAHATCHEE RIVER .5 MI ABOVE MOUTH, FL

LOCATION.--Lat 26°59'08", long 80°09'37", in NE ¼ NE ¼ NE ¼, sec.18, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, in the Gulfstream Citrus Orange Grove on Hobe Ditch, 50 ft above Moonshine Creek, 0.75 mi east of U.S. Interstate 95, 3.2 mi northeast of State Road 706 bridge crossing over the Loxahatchee River, 6.2 mi northwest of Jupiter.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 2002 to present.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. (South Florida Water Management bench mark).

REMARKS.--Record poor, discharge affected regularly by tidal backwater. Flow regulated by operation of control structure 0.2 mi upstream.

ANNUAL MEAN and ANNUAL SUMMARY STATISTICS.--Figures represent 1 complete year of discharge (2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 11.70 ft Sept. 26, 2004; minimum, 1.78 ft Mar. 11, 2003.

EXTREME STAGES FOR 2003 WATER YEAR.--Maximum gage height, 5.06 ft Aug. 13; minimum, 1.78 ft Mar. 11.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 11.70 ft Sept. 26; minimum, 1.95 ft July 2.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	2.17	1.87	2.04	2.11	2.22	2.92	2.02	2.51	2.70
2	---	---	---	2.17	1.86	2.04	2.08	2.22	2.41	2.03	2.45	2.94
3	---	---	2.37	2.16	2.06	2.01	1.97	2.21	2.16	2.13	2.61	3.39
4	---	---	2.36	2.14	1.88	2.00	1.90	2.19	2.13	2.35	3.08	3.95
5	---	---	2.38	2.13	1.95	1.92	1.96	2.07	2.13	2.33	3.17	3.91
6	---	---	2.38	2.12	1.96	1.87	2.00	1.91	2.46	2.32	3.30	3.88
7	---	---	2.36	1.97	1.97	1.85	---	1.92	2.80	2.14	3.07	3.56
8	---	---	2.33	1.83	1.96	1.84	---	1.91	2.76	2.10	3.19	3.37
9	---	---	2.35	1.83	2.06	1.84	1.86	1.90	2.82	2.07	3.18	3.22
10	---	---	2.52	1.96	2.09	1.82	1.88	1.88	2.83	1.99	3.35	3.08
11	---	---	2.46	2.06	2.01	1.80	1.86	1.88	2.77	2.00	3.52	2.67
12	---	---	2.44	2.08	2.05	1.82	1.87	1.88	2.69	2.00	3.37	2.36
13	---	---	2.47	2.07	1.99	2.36	1.86	1.86	2.60	2.53	3.70	2.34
14	---	---	2.48	1.97	1.95	2.50	1.86	1.87	2.51	2.75	3.05	2.44
15	---	---	2.44	1.82	2.28	2.44	1.91	1.86	2.44	2.83	2.96	2.50
16	---	---	2.41	1.83	2.50	2.28	1.97	1.84	2.39	2.69	3.31	2.53
17	---	---	2.39	1.83	2.82	2.43	2.05	1.83	2.29	2.61	3.19	2.74
18	---	---	2.14	1.82	2.72	2.54	1.99	1.85	2.05	2.58	3.21	2.71
19	---	---	1.94	1.83	2.63	2.52	1.96	1.92	2.35	2.46	3.79	2.60
20	---	---	2.03	1.81	2.53	2.35	1.93	2.01	2.34	2.37	4.24	2.55
21	---	---	2.16	1.82	2.45	2.31	1.94	2.10	2.37	2.37	3.66	2.64
22	---	---	2.16	1.83	2.51	2.25	1.94	2.17	2.43	2.20	3.25	2.61
23	---	---	2.17	1.89	2.55	2.23	1.90	2.47	2.44	2.18	3.03	2.55
24	---	2.69	2.18	2.14	2.46	2.22	1.93	2.75	2.36	2.12	2.93	2.52
25	---	---	2.20	2.24	2.28	2.17	1.93	2.95	2.26	2.27	2.92	2.58
26	---	---	2.17	2.33	2.16	2.14	1.99	3.10	2.19	2.95	2.89	2.77
27	---	---	2.16	2.35	2.10	2.18	2.01	3.34	2.25	2.78	2.86	2.80
28	---	---	2.15	2.32	2.06	2.26	2.13	4.23	2.22	2.56	2.81	2.83
29	---	---	2.14	2.28	---	---	2.20	3.88	2.22	2.50	2.74	3.26
30	---	---	2.15	2.12	---	---	2.21	3.48	2.10	2.45	2.66	3.16
31	---	---	2.15	2.06	---	---	---	3.11	---	2.52	2.63	---
TOTAL	---	---	---	62.98	61.71	---	---	72.81	72.69	73.20	96.63	87.16
MEAN	---	---	---	2.03	2.20	---	---	2.35	2.42	2.36	3.12	2.91
MAX	---	---	---	2.35	2.82	---	---	4.23	2.92	2.95	4.24	3.95
MIN	---	---	---	1.81	1.86	---	---	1.83	2.05	1.99	2.45	2.34

265708080093700 HOBE DITCH TRIBUTARY TO LOXAHATCHEE RIVER .5 MI ABOVE MOUTH, FL-Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e4.9	e2.3	0.29	e1.8	e3.2	e4.4	15	e1.3	8.4	e11
2	---	---	e4.7	e2.2	e0.27	e1.8	e3.0	e4.4	7.1	e1.5	e7.4	e16
3	---	---	e4.6	e2.1	1.4	e1.6	2.0	e4.4	3.1	2.8	e9.8	e25
4	---	---	e4.3	e2.0	0.33	e1.4	1.3	e4.1	2.8	5.9	e18	e37
5	---	---	e4.7	e1.8	0.65	e0.96	1.8	e2.8	2.8	5.6	e20	e36
6	---	---	e4.6	e1.7	0.70	0.62	2.1	e1.3	7.7	5.4	e23	e35
7	---	---	e4.3	0.86	0.80	0.55	e1.6	e1.5	e13	2.9	e18	e26
8	---	---	e4.0	e0.17	0.78	0.50	e0.87	1.4	12	2.4	e20	e22
9	---	---	e4.3	0.18	1.4	0.48	1.1	1.4	13	1.9	e20	e18
10	---	---	e6.4	0.72	1.8	e0.41	1.2	1.2	e14	e1.0	e24	e15
11	---	---	e5.8	1.3	1.1	e0.33	e1.0	1.2	e12	e0.92	e27	e7.9
12	---	---	e5.4	1.5	1.3	0.43	e0.99	1.2	e11	e1.0	e24	e2.7
13	---	---	e5.8	e1.4	0.91	5.7	e0.94	e1.0	e9.6	e8.7	e32	e2.6
14	---	---	6.1	e0.87	0.75	7.6	e0.90	e0.92	e8.3	e12	e18	e4.3
15	---	---	5.4	e0.15	3.9	e6.9	e0.87	e0.91	e7.2	e14	e16	e5.3
16	---	---	5.1	e0.15	7.0	e4.9	e0.94	e0.90	e6.5	e11	e23	e5.6
17	---	---	e4.8	e0.16	12	e6.5	e1.4	e0.83	e5.0	e9.9	e20	e8.7
18	---	---	e2.2	e0.15	e10	e8.2	e1.1	e0.91	e1.7	9.5	21	e7.6
19	---	---	e0.54	e0.16	e9.0	e7.8	e1.1	e1.4	e5.8	7.5	33	e6.6
20	---	---	e1.2	e0.13	e7.6	e5.9	e1.1	e2.3	e5.7	6.2	44	e6.1
21	---	---	e2.2	0.14	e6.5	e5.5	e0.96	e3.1	6.3	6.3	30	e7.4
22	---	---	e2.2	0.17	e7.4	e4.9	e0.87	e3.8	7.1	3.9	21	e6.7
23	---	e15	e2.3	0.37	e7.9	e4.6	e0.84	e7.6	e7.1	3.4	e17	e5.9
24	---	e8.9	e2.4	2.1	6.7	e4.5	e0.78	e12	e6.1	2.8	e15	e5.2
25	---	e7.8	2.6	e3.1	4.5	e3.9	e0.74	15	4.7	4.9	e15	e6.0
26	---	e7.2	2.3	e4.1	3.0	e3.6	e1.7	e18	e3.5	16	e14	e8.5
27	---	e6.5	e2.2	4.4	e2.4	e3.9	e2.0	22	e4.3	13	e14	e9.1
28	---	e5.8	e2.1	e3.9	e2.0	e4.9	e3.4	e43	e4.0	9.1	e13	e9.3
29	---	e5.2	e2.0	e3.4	---	e4.4	e4.1	e35	e3.9	8.2	e12	e20
30	---	e5.1	e2.0	e1.8	---	e4.0	e4.2	e26	e2.4	7.4	e11	e16
31	---	---	e2.0	e1.5	---	e3.6	---	e19	---	8.5	e10	---
TOTAL	---	---	113.44	44.98	102.38	112.18	48.10	242.97	212.7	194.92	598.6	392.5
MEAN	---	---	3.66	1.45	3.66	3.62	1.60	7.84	7.09	6.29	19.3	13.1
MAX	---	---	6.4	4.4	12	8.2	4.2	43	15	16	44	37
MIN	---	---	0.54	0.13	0.27	0.33	0.74	0.83	1.7	0.92	7.4	2.6
AC-FT	---	---	225	89	203	223	95	482	422	387	1,190	779

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2003, BY WATER YEAR (WY)

MEAN	---	---	3.66	1.45	3.66	3.62	1.60	7.84	7.09	6.29	19.3	13.1
MAX	---	---	3.66	1.45	3.66	3.62	1.60	7.84	7.09	6.29	19.3	13.1
(WY)	---	---	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	---	---	3.66	1.45	3.66	3.62	1.60	7.84	7.09	6.29	19.3	13.1
(WY)	---	---	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)

e Estimate

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.

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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	3.10	2.35	2.66	2.57	2.71	2.18	2.13	2.02	2.06	2.08	2.16	2.23
2	3.03	2.42	2.69	2.56	2.63	2.20	2.16	2.11	2.00	1.97	2.19	2.11
3	2.94	2.55	2.63	2.55	2.50	2.20	2.05	2.18	2.01	1.99	2.23	2.27
4	2.82	2.53	2.59	2.31	2.21	2.24	2.04	2.25	2.04	2.18	2.14	3.10
5	2.67	3.28	2.59	2.29	2.40	2.26	2.04	2.29	2.12	2.28	2.29	7.97
6	2.61	4.18	2.72	2.50	2.49	2.25	2.02	2.28	2.28	2.31	3.01	8.16
7	2.35	3.95	3.34	2.58	2.51	2.28	2.02	2.27	2.24	2.34	2.38	5.81
8	2.20	3.51	3.64	2.72	2.48	2.27	2.01	2.25	2.29	2.37	2.12	4.80
9	2.32	3.67	3.44	2.44	2.44	2.25	2.01	2.23	2.33	2.33	2.19	4.95
10	2.35	3.73	3.27	2.74	2.14	2.23	2.00	2.12	2.35	2.30	2.26	4.89
11	2.38	3.89	3.10	2.77	2.22	2.15	2.01	2.05	2.27	2.22	2.68	4.28
12	2.18	3.57	2.77	2.73	2.35	2.13	2.24	2.02	2.26	2.20	2.74	3.97
13	2.41	3.29	3.31	2.67	2.40	2.08	2.28	2.02	2.28	2.25	2.58	3.11
14	2.77	3.14	3.71	2.40	2.40	2.07	2.32	2.02	2.23	2.23	2.26	2.55
15	2.71	3.09	4.35	2.15	2.41	2.07	2.23	2.07	2.12	2.11	2.12	2.57
16	2.63	3.02	4.27	2.22	2.14	2.13	2.11	2.27	2.02	2.10	2.13	2.89
17	2.55	2.95	3.61	2.36	2.16	2.23	2.13	2.30	2.00	2.05	2.17	3.17
18	2.51	2.97	2.89	2.50	2.26	2.23	2.17	2.24	2.01	2.07	2.42	3.34
19	2.49	2.86	2.62	2.59	2.31	2.23	2.30	2.33	2.12	2.15	2.81	3.10
20	2.53	2.75	2.45	2.53	2.33	2.21	2.26	2.36	2.13	2.17	2.67	3.00
21	2.62	2.62	2.52	2.23	2.14	2.22	2.03	2.35	2.13	2.08	2.58	6.14
22	2.61	2.55	2.68	2.52	2.10	2.16	2.02	2.35	2.25	2.06	2.59	4.93
23	2.56	2.65	2.90	2.50	2.15	2.07	2.01	2.24	2.25	2.14	2.66	4.69
24	2.50	2.73	3.10	2.84	2.20	2.05	2.01	2.19	2.17	2.19	2.64	4.05
25	2.47	2.70	3.14	3.18	2.21	2.03	2.01	2.10	2.15	2.31	2.62	4.66
26	2.42	2.49	3.03	3.18	2.92	2.01	2.02	2.04	2.22	2.36	2.57	11.07
27	2.41	2.49	2.89	2.87	2.97	2.02	1.99	2.11	2.24	2.48	2.87	10.77
28	2.35	2.65	2.77	2.53	2.82	2.13	1.98	1.99	2.14	2.53	2.81	9.99
29	2.36	2.64	2.35	2.54	2.42	2.27	1.97	1.98	2.23	2.42	2.61	8.10
30	2.34	2.63	2.40	2.63	---	2.20	1.98	2.01	2.18	2.31	2.53	6.08
31	2.33	---	2.54	2.68	---	2.04	---	2.07	---	2.21	2.48	---
TOTAL	78.52	89.85	92.97	79.88	69.42	67.09	62.55	67.11	65.12	68.79	76.51	148.75
MEAN	2.53	3.00	3.00	2.58	2.39	2.16	2.08	2.16	2.17	2.22	2.47	4.96
MAX	3.10	4.18	4.35	3.18	2.97	2.28	2.32	2.36	2.35	2.53	3.01	11.07
MIN	2.18	2.35	2.35	2.15	2.10	2.01	1.97	1.98	2.00	1.97	2.12	2.11

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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	e14	e2.9	e3.5	e4.6	e8.6	e1.4	e1.1	0.40	e0.67	e1.1	e2.2	e2.6
2	e12	e3.3	e3.8	e4.7	e7.3	e1.6	e1.4	e0.95	e0.39	e0.31	e2.6	e0.94
3	e9.8	e4.2	e3.2	e4.6	e5.4	e1.6	e0.37	e1.6	e0.40	e0.51	e3.1	e2.7
4	e8.2	e5.0	e2.8	e1.9	e1.4	e2.1	e0.28	e2.4	e0.58	e2.2	e1.9	e13
5	e7.2	e19	e2.8	e1.7	e3.8	e2.5	e0.26	e2.9	e1.2	e3.5	e3.8	e125
6	e6.6	e44	e4.0	e4.3	e5.2	e2.3	e0.19	e2.8	e3.1	e3.8	e14	e128
7	e2.9	e36	e13	e5.4	e5.5	e2.6	e0.18	e2.6	e2.6	e4.2	e4.8	65
8	e1.2	e23	e20	e7.7	e5.0	e2.6	e0.17	e2.5	e3.3	e4.5	e1.0	38
9	e2.4	e25	e15	e3.9	e4.5	e2.3	e0.20	e2.3	3.7	e4.1	e1.8	e41
10	e2.8	e25	e11	e8.4	e0.70	e2.0	e0.21	e1.2	e4.0	e3.7	e2.6	e40
11	e3.2	e27	e8.7	e8.9	e1.5	e1.1	e0.26	e0.55	e2.9	e2.8	9.1	e26
12	e0.72	e19	e4.7	e8.5	e3.2	e0.85	e2.6	e0.38	e2.9	e2.5	9.7	e20
13	e3.8	e12	e12	e7.7	e3.9	e0.49	e2.9	0.40	e3.1	e3.2	7.0	e8.3
14	e9.3	e8.7	e22	e4.1	e3.9	e0.45	e3.4	0.38	e2.5	e3.0	2.9	e1.9
15	e8.4	e8.0	e40	e0.75	e4.0	e0.45	e2.4	0.78	e1.2	e1.6	1.0	e2.1
16	e7.0	e7.3	e37	e1.5	e0.70	e0.99	e1.0	2.7	e0.52	e1.4	e1.1	e4.4
17	e6.1	e6.5	e20	e3.3	e0.84	e2.0	e1.2	3.1	e0.40	e1.0	e1.5	e6.6
18	e5.3	e6.7	e7.1	e5.3	e2.0	e2.0	e1.7	2.5	e0.48	e1.2	e4.9	e8.4
19	e5.0	e5.5	e3.6	e6.6	e2.5	e2.0	e3.4	e3.5	e1.4	e2.2	e11	e6.0
20	e5.5	e4.4	e2.1	e5.8	e2.7	e1.9	e2.9	e4.0	e1.6	2.4	e8.5	e5.1
21	e6.9	e2.6	e2.9	e1.5	e0.75	e2.0	e0.42	3.9	1.5	1.4	7.0	e77
22	e6.7	e2.1	e4.5	e5.6	e0.36	e1.2	e0.38	3.8	e2.8	1.1	7.2	e44
23	e5.7	e3.1	e7.4	e5.2	e0.76	e0.35	0.33	2.5	e2.8	e2.1	8.3	e36
24	e4.8	e3.9	e10	e11	e1.3	e0.28	0.33	1.9	2.0	e2.7	e8.0	e20
25	e4.1	e3.7	e11	e18	e1.4	e0.19	0.34	1.0	1.7	4.1	e7.6	e36
26	e3.9	e1.7	e9.8	e18	e14	e0.17	0.36	0.56	2.5	e4.7	e6.9	e215
27	e3.5	e1.5	e8.0	e12	e14	e0.20	0.26	1.1	2.8	e6.2	e12	e206
28	e2.9	e3.2	e6.6	e5.9	e11	e1.1	0.22	0.31	1.6	e7.0	e10	e182
29	e3.1	e3.2	e1.9	e5.9	e4.6	e2.7	0.20	0.27	2.7	e5.5	e7.3	e128
30	e2.9	e3.1	e2.4	e7.3	---	e2.0	0.22	e0.39	2.2	e4.1	e6.1	73
31	e2.8	---	e4.1	e8.2	---	e0.37	---	e0.76	---	e2.8	e5.5	---
TOTAL	168.72	320.6	304.9	198.25	120.81	43.79	29.18	54.43	59.54	90.92	180.4	1,562.04
MEAN	5.44	10.7	9.84	6.40	4.17	1.41	0.97	1.76	1.98	2.93	5.82	52.1
MAX	14	44	40	18	14	2.7	3.4	4.0	4.0	7.0	14	215
MIN	0.72	1.5	1.9	0.75	0.36	0.17	0.17	0.27	0.39	0.31	1.0	0.94
AC-FT	335	636	605	393	240	87	58	108	118	180	358	3,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	5.44	10.7	6.75	3.92	3.92	2.52	1.29	4.80	4.54	4.61	12.6	32.6
MAX	5.44	10.7	9.84	6.40	4.17	3.62	1.60	7.84	7.09	6.29	19.3	52.1
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	5.44	10.7	3.66	1.45	3.66	1.41	0.97	1.76	1.98	2.93	5.82	13.1
(WY)	(2004)	(2004)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

ANNUAL TOTAL	2,743.55	3,133.58		
ANNUAL MEAN	7.52	8.56	8.56	
HIGHEST ANNUAL MEAN			8.56	2004
LOWEST ANNUAL MEAN			8.56	2004
HIGHEST DAILY MEAN	44	215	215	Sep 26, 2004
LOWEST DAILY MEAN	0.13	0.17	0.13	Jan 20, 2003
ANNUAL SEVEN-DAY MINIMUM	0.15	0.21	0.15	Jan 15, 2003
ANNUAL RUNOFF (AC-FT)	5,440	6,220	6,200	
10 PERCENT EXCEEDS	20	14	14	
50 PERCENT EXCEEDS	4.4	3.1	3.1	
90 PERCENT EXCEEDS	0.87	0.41	0.41	

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.