

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

LOCATION.--Lat 26°56'20", long 80°10'31", in NE ¼ SE ¼ NE ¼ sec.6, T.41 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, near left bank, 0.2 mi downstream from State Road 706, 1.3 mi upstream from Florida's Turnpike and 5.2 mi west of Jupiter.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1971 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, except for estimated daily discharge, which is poor. Flow is augmented by diversion from C-18 canal 2.0 mi upstream from the gage. High-water flow can be diverted into C-18 canal by backflow through the structure. Discharge for the 1991 water year could not be published due to the loss of the original records. Days of no flow for the period of record only occurred during the period May 4-7, 1974.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete water years of discharge (1972-90, 1992-2004).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 16.39 ft Oct. 18, 1995; minimum, 7.55 ft May 16, 17, 18, 2001.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 15.13 ft Sept. 26; minimum, 9.96 ft July 1.

REVISIONS.--Revised figures of discharge for May 22 to September 30, 2003, superseding those published in the 2003 report are provided below.

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	64	47	31	33	25	20	38	55	176	168	16	157
2	64	37	30	29	23	20	37	59	180	166	17	161
3	62	33	27	27	24	19	36	57	184	164	17	178
4	61	33	32	30	23	19	35	54	192	169	18	183
5	60	33	33	29	22	18	36	51	193	167	20	181
6	58	33	32	29	22	18	45	49	211	150	28	191
7	56	32	31	26	18	18	39	47	189	83	27	188
8	50	32	29	27	25	17	36	45	180	26	25	171
9	41	38	34	32	24	15	38	42	192	21	34	157
10	40	37	82	33	18	19	47	40	185	20	45	152
11	40	37	36	33	19	20	41	37	179	19	54	154
12	39	37	42	31	20	21	37	36	180	17	47	152
13	38	36	52	30	19	31	35	34	174	16	37	147
14	32	29	52	30	19	41	34	33	176	16	39	146
15	40	31	48	29	19	33	32	32	184	16	101	144
16	92	34	45	27	20	32	34	32	184	17	156	140
17	87	34	33	27	23	40	53	30	183	17	157	128
18	79	34	29	26	22	49	48	30	176	17	155	97
19	74	32	30	33	21	53	43	29	186	15	173	93
20	71	31	40	33	21	45	40	29	198	15	170	92
21	68	36	81	32	18	47	38	29	192	16	161	95
22	64	38	47	30	11	43	36	38	186	18	155	94
23	55	34	55	30	24	43	34	114	181	19	151	91
24	53	37	50	29	31	42	33	193	180	19	155	89
25	52	50	47	28	26	40	32	187	181	19	154	90
26	52	52	44	28	24	39	40	181	177	19	156	97
27	51	28	33	28	26	41	46	177	172	16	159	113
28	49	30	30	27	24	48	47	219	173	17	151	116
29	48	28	28	27	---	44	48	166	168	16	152	140
30	49	32	27	27	---	42	52	179	168	17	159	144
31	53	---	28	26	---	39	---	185	---	18	157	---
TOTAL	1,742	1,055	1,238	906	611	1,016	1,190	2,489	5,480	1,493	3,046	4,081
MEAN	56.2	35.2	39.9	29.2	21.8	32.8	39.7	80.3	183	48.2	98.3	136
MAX	92	52	82	33	31	53	53	219	211	169	173	191
MIN	32	28	27	26	11	15	32	29	168	15	16	89
AC-FT	3,460	2,090	2,460	1,800	1,210	2,020	2,360	4,940	10,870	2,960	6,040	8,090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY)

MEAN	133	112	74.0	72.9	69.6	61.1	47.7	43.9	76.2	91.1	99.6	120
MAX	349	277	253	305	295	190	178	150	238	286	212	258
(WY)	(1996)	(1993)	(1995)	(1993)	(1993)	(1993)	(1993)	(1972)	(1994)	(2002)	(1995)	(2001)
MIN	17.2	21.9	15.4	5.90	1.75	10.6	5.88	5.80	9.92	16.2	25.1	26.6
(WY)	(1973)	(1973)	(1989)	(1989)	(1989)	(1975)	(1999)	(1974)	(1989)	(1990)	(1975)	(1972)

EVERGLADES AND SOUTHEASTERN COASTAL AREA
02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL-Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1971 - 2003	
ANNUAL TOTAL	32,339.0		24,347		83.8	
ANNUAL MEAN	88.6		66.7		172	
HIGHEST ANNUAL MEAN					24.2	
LOWEST ANNUAL MEAN					1975	
HIGHEST DAILY MEAN	392	Jul 13	219	May 28	2,150	Oct 18, 1995
LOWEST DAILY MEAN	3.6	Jun 7	11	Feb 22	0.00	May 4, 1974
ANNUAL SEVEN-DAY MINIMUM	12	Jun 1	16	Jul 14	0.16	May 2, 1974
MAXIMUM PEAK FLOW			232	May 28	2,660	Oct 18, 1995
MAXIMUM PEAK STAGE			12.47	May 28	16.39	Oct 18, 1995
INSTANTANEOUS LOW FLOW			10	Feb 22	0.00	May 4, 1974
ANNUAL RUNOFF (AC-FT)	64,140		48,290		60,680	
10 PERCENT EXCEEDS	239		176		178	
50 PERCENT EXCEEDS	56		38		61	
90 PERCENT EXCEEDS	21		19		16	

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.

REVISED

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL-Continued

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	11.78	11.27	11.42	11.20	11.21	11.01	10.79	10.66	10.63	10.09	10.77	11.13
2	11.75	11.20	11.52	11.20	11.23	11.01	10.75	10.62	10.66	10.35	10.80	11.49
3	11.72	11.43	11.31	11.19	11.17	11.02	10.65	10.73	10.46	10.12	10.93	11.80
4	11.70	11.53	11.27	11.19	11.04	11.07	10.64	10.82	10.40	10.18	10.98	11.73
5	11.68	11.73	11.30	11.17	11.16	11.04	10.64	10.72	10.71	10.59	11.07	13.99
6	11.66	12.50	11.48	11.08	11.25	11.00	10.66	10.64	10.69	10.73	11.12	14.12
7	11.60	12.36	11.48	11.05	11.10	10.99	10.66	10.62	10.65	10.81	11.05	13.47
8	11.36	12.17	11.41	11.03	11.06	10.97	10.66	10.69	10.65	10.80	11.02	12.85
9	11.33	12.14	11.32	11.02	11.05	10.89	10.66	10.70	10.63	10.66	11.00	12.95
10	11.32	12.00	11.35	11.02	11.05	10.88	10.68	10.69	10.65	10.65	11.02	---
11	11.32	12.02	11.35	11.01	11.04	10.89	10.66	10.69	10.63	10.66	11.40	11.96
12	11.31	12.13	11.33	11.01	11.02	10.88	10.71	10.69	10.61	10.74	11.66	11.67
13	11.31	12.14	11.27	11.01	11.01	10.87	10.71	10.70	10.61	10.84	11.42	11.66
14	11.32	12.11	11.30	11.01	11.01	10.87	10.68	10.71	10.64	10.87	11.38	12.02
15	11.25	12.20	11.49	11.00	11.01	10.88	10.66	10.71	10.65	10.92	11.33	12.05
16	11.13	12.18	11.51	11.00	11.00	10.90	10.68	10.70	10.63	10.93	11.44	12.00
17	11.11	12.16	11.57	11.00	10.99	10.91	10.69	10.70	10.59	10.85	11.36	11.97
18	11.10	12.06	11.56	11.01	10.98	10.89	10.62	10.70	10.64	10.78	11.24	11.94
19	11.10	12.08	11.51	11.03	10.97	10.88	10.64	10.69	10.66	10.77	11.43	11.90
20	11.55	12.08	11.39	11.02	10.96	10.86	10.71	10.65	10.59	10.78	11.45	11.92
21	12.12	12.02	11.36	11.02	10.92	10.85	10.75	10.61	10.59	10.78	11.30	13.29
22	12.18	12.02	11.28	11.02	10.91	10.82	10.77	10.61	10.65	10.80	11.27	13.38
23	12.06	11.87	11.32	11.00	10.91	10.80	10.80	10.60	10.63	10.79	11.36	12.79
24	11.74	11.77	11.62	11.00	10.89	10.80	10.82	10.59	10.63	10.78	11.40	12.19
25	11.51	11.75	11.64	10.99	10.93	10.79	10.75	10.55	10.62	10.77	11.38	12.03
26	11.59	11.68	11.56	10.95	11.02	10.79	10.66	10.56	10.62	10.76	11.33	15.02
27	11.51	11.59	11.48	10.91	11.03	10.77	10.69	10.61	10.61	10.78	11.21	14.77
28	11.40	11.58	11.31	10.91	11.01	10.76	10.70	10.68	10.47	10.80	11.10	14.23
29	11.24	11.48	11.30	10.90	11.01	10.76	10.66	10.68	10.22	10.77	11.11	13.51
30	11.29	11.40	11.36	10.90	---	10.76	10.66	10.54	10.05	10.77	11.06	12.82
31	11.35	---	11.23	10.95	---	10.76	---	10.39	---	10.76	11.13	---
TOTAL	356.39	356.65	353.60	341.80	319.94	337.37	320.81	330.25	317.47	331.68	347.52	---
MEAN	11.50	11.89	11.41	11.03	11.03	10.88	10.69	10.65	10.58	10.70	11.21	---
MAX	12.18	12.50	11.64	11.20	11.25	11.07	10.82	10.82	10.71	10.93	11.66	---
MIN	11.10	11.20	11.23	10.90	10.89	10.76	10.62	10.39	10.05	10.09	10.77	---

