

265818080111900 CYPRESS CREEK CANAL BELOW GULFSTREAM BRIDGE, FL

LOCATION.--Lat 26°58'18", long 80°11'19", in SW 1/4 SW 1/4 SW 1/4, sec.19, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, north bank of Cypress Creek Canal below Gulfstream Citrus Bridge, 0.5 mi west of U.S. Interstate 95, 7 mi northwest of Jupiter.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2002 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 (NGVD) of 1929 converted through VERTCON using the NAVD 88 survey levels provided by the South Florida Water Management District (SFWMD).

REMARKS.--Records poor. Flow regulated by stop-log structure located 0.25 mi downstream. The cross-section at this site is variable due to the buildup of debris in front of the bridge piling. Discharge computed from relationships between stage vs. area and index velocity vs. mean channel velocity.

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

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 15.26 ft Sept. 26, 2004; minimum, 6.48 ft Mar. 11, 12, 2003.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 15.26 ft Sept. 26; minimum, 6.61 ft Apr. 21.

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	---	7.60	7.78	7.71	7.36	7.43	---	8.40	9.00	7.95	7.78	8.49
2	---	7.69	7.77	7.74	7.34	7.50	7.59	8.40	8.85	7.99	7.69	8.64
3	---	7.71	7.75	7.73	7.23	7.57	7.53	8.35	8.78	8.05	7.89	8.80
4	---	7.69	7.73	7.70	6.85	7.57	7.53	8.27	9.04	8.12	8.36	---
5	---	7.64	7.72	7.69	7.22	7.47	7.68	8.17	9.08	8.11	8.62	---
6	---	7.59	7.72	7.66	7.49	7.46	7.72	8.05	9.47	8.13	8.52	9.25
7	---	7.55	7.73	7.68	7.27	7.50	---	8.03	9.39	8.12	8.47	---
8	---	---	7.63	7.75	7.15	7.49	---	8.09	9.21	8.07	8.49	9.17
9	---	7.55	7.64	7.71	7.30	7.42	7.74	8.10	9.64	7.99	8.56	9.05
10	---	7.55	8.26	7.68	7.28	7.11	7.89	8.03	9.34	7.90	8.76	8.94
11	---	7.56	8.19	---	7.04	6.65	7.70	8.01	9.03	7.80	8.99	8.83
12	---	7.77	8.06	7.67	7.11	6.63	7.65	7.99	8.80	7.70	8.88	---
13	---	8.06	7.96	7.66	7.09	---	7.57	7.80	8.58	7.79	8.74	---
14	---	---	8.03	7.68	7.08	7.49	7.47	7.79	8.54	7.83	8.89	8.54
15	---	---	7.89	7.68	7.07	7.41	7.50	7.89	8.49	7.84	9.15	8.49
16	---	---	7.84	7.62	7.10	7.24	7.77	7.77	8.42	7.83	9.08	8.47
17	---	8.12	7.81	7.64	7.94	7.89	8.09	7.65	8.27	7.83	8.97	---
18	---	8.18	7.80	7.62	7.60	8.01	7.95	7.70	---	7.80	9.01	8.51
19	---	7.88	7.84	7.61	7.34	7.74	7.85	7.67	8.31	7.78	9.29	---
20	---	7.82	7.93	7.55	7.25	7.69	7.83	7.67	8.38	7.80	9.12	---
21	---	8.22	8.15	7.54	7.28	7.66	7.83	7.59	8.35	7.82	9.04	8.58
22	---	---	8.06	7.50	7.35	7.62	7.87	7.70	8.31	7.72	8.96	8.57
23	---	---	7.95	7.47	7.45	7.67	7.88	8.16	8.28	7.75	8.89	8.55
24	---	7.99	7.84	7.67	7.58	7.70	7.77	8.56	8.22	7.77	8.81	8.47
25	---	7.92	7.87	7.86	7.89	7.64	7.76	8.61	8.17	7.76	8.74	8.43
26	---	7.89	7.84	7.72	7.64	7.57	8.20	8.57	8.14	7.82	8.70	8.45
27	---	7.88	7.75	7.41	7.52	7.64	8.43	8.75	8.10	7.77	8.68	8.53
28	---	8.01	7.73	7.19	7.41	8.25	8.36	9.43	8.05	7.85	8.58	8.57
29	---	---	7.70	7.25	---	---	---	9.46	8.00	7.76	8.53	8.76
30	---	7.79	7.67	7.36	---	---	8.45	9.29	7.96	7.76	8.51	9.08
31	7.65	---	7.66	7.36	---	---	---	9.13	---	7.88	8.47	---
TOTAL	---	---	243.30	---	205.23	---	---	255.08	---	244.09	269.17	---
MEAN	---	---	7.85	---	7.33	---	---	8.23	---	7.87	8.68	---
MAX	---	---	8.26	---	7.94	---	---	9.46	---	8.13	9.29	---
MIN	---	---	7.63	---	6.85	---	---	7.59	---	7.70	7.69	---

265818080111900 CYPRESS CREEK CANAL BELOW GULFSTREAM BRIDGE, 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	---	33	41	37	22	27	e21	81	179	61	37	80
2	---	37	39	37	22	29	19	80	161	65	32	101
3	---	38	38	36	21	33	17	77	125	70	45	119
4	---	38	39	35	17	33	15	81	158	72	81	e130
5	---	35	39	35	24	29	20	71	176	73	100	e149
6	---	32	35	31	30	29	26	61	237	71	88	200
7	---	30	38	32	23	29	e24	59	199	69	78	e196
8	---	e30	33	37	19	29	e21	58	177	63	79	177
9	---	---	34	36	24	24	26	59	265	58	86	164
10	---	---	86	36	23	16	33	53	210	54	112	147
11	---	---	70	e37	19	11	22	51	164	46	140	133
12	---	---	59	33	19	12	18	56	133	36	125	e115
13	---	---	51	32	19	e19	14	39	108	42	108	e100
14	---	---	55	33	18	29	12	34	105	45	128	91
15	---	---	53	34	17	25	15	46	94	44	155	86
16	---	e35	47	30	19	19	30	40	92	43	146	80
17	---	69	45	33	60	69	81	32	80	41	127	e93
18	---	74	45	33	29	62	65	36	e80	40	133	83
19	---	47	45	32	18	34	50	32	89	39	166	e75
20	---	47	55	29	17	23	49	32	96	36	146	e77
21	---	77	71	27	18	16	48	25	99	35	138	94
22	---	---	64	28	20	15	57	38	89	28	126	92
23	---	---	56	27	22	20	e61	87	81	30	115	90
24	---	55	49	39	31	22	49	132	79	39	102	82
25	---	49	50	50	45	21	48	127	72	38	93	80
26	---	46	48	39	37	18	64	109	60	38	90	81
27	---	46	43	22	31	24	86	137	73	32	90	88
28	---	e57	41	18	26	87	72	225	66	41	89	90
29	---	e49	38	18	---	---	e68	252	61	34	86	115
30	---	43	38	21	---	---	87	229	61	35	83	165
31	---	---	37	22	---	e25	---	209	---	43	79	---
TOTAL	---	---	1,482	989	690	---	1,218	2,648	3,669	1,461	3,203	3,373
MEAN	---	---	47.8	31.9	24.6	---	40.6	85.4	122	47.1	103	112
MAX	---	86	50	60	87	252	265	73	166	200		
MIN	---	33	18	17	12	25	60	28	32	75		
AC-FT	---	---	2,940	1,960	1,370	---	2,420	5,250	7,280	2,900	6,350	6,690

e Estimated

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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	9.0	8.13	8.05	7.69	7.95	7.85	7.47	7.44	7.46	7.32	7.47	7.43
2	---	8.18	8.11	7.67	7.84	7.84	7.43	7.36	7.36	7.33	7.50	7.40
3	8.85	8.51	8.09	7.67	8.08	7.81	7.29	7.34	---	7.34	7.58	7.36
4	8.77	---	8.05	7.68	7.98	7.84	7.33	7.75	7.45	7.37	7.97	7.64
5	8.72	8.68	7.88	7.70	7.81	7.81	7.33	7.61	7.59	7.45	8.11	10.51
6	8.62	9.13	7.98	7.70	7.76	7.78	7.27	---	7.59	7.53	8.28	11.42
7	8.50	9.57	7.94	7.70	7.76	7.80	7.30	7.41	7.54	7.60	8.19	10.69
8	8.40	9.49	7.92	7.68	7.72	---	7.20	7.31	7.48	7.56	7.89	10.26
9	8.44	9.78	7.89	7.65	7.67	7.79	7.12	7.26	7.45	7.45	7.71	10.07
10	8.48	9.70	7.89	7.63	7.63	7.73	7.20	---	---	7.39	7.69	9.50
11	8.44	9.54	7.87	7.59	7.65	7.75	7.49	---	7.43	7.39	7.65	9.11
12	8.49	9.42	7.82	7.57	7.74	7.68	7.69	6.93	7.43	7.46	7.31	8.82
13	8.46	9.40	7.79	7.56	7.79	7.67	7.73	7.05	7.38	7.87	7.51	8.58
14	8.47	9.29	7.89	7.63	7.74	7.72	7.55	---	7.47	8.42	7.44	8.37
15	8.34	---	8.03	7.70	7.69	7.75	7.46	7.27	7.45	8.09	7.45	8.28
16	8.23	9.08	7.89	7.71	7.67	7.78	7.42	7.46	7.42	7.86	7.75	8.16
17	8.15	8.99	7.91	7.69	7.66	7.80	7.38	7.52	7.42	7.63	7.76	8.15
18	8.11	---	---	7.80	7.62	7.71	7.32	7.45	7.44	7.66	7.67	8.05
19	8.04	8.88	7.80	8.01	7.61	7.62	7.18	7.39	7.45	7.86	8.02	7.98
20	8.12	8.85	7.79	7.74	7.60	7.57	6.83	7.27	7.42	7.83	7.84	8.31
21	8.49	8.74	7.80	7.67	7.59	7.55	6.87	7.17	7.38	7.72	7.71	10.00
22	---	8.67	7.82	7.64	7.57	7.53	7.36	7.25	7.43	7.60	7.65	11.23
23	8.36	8.62	8.01	7.61	---	7.50	7.18	7.24	7.42	7.54	7.69	10.09
24	8.32	8.55	7.99	7.62	7.52	7.50	6.97	7.18	7.39	7.44	7.70	9.34
25	8.29	---	7.85	7.63	---	7.41	7.07	7.15	7.36	7.44	7.78	9.26
26	---	8.37	7.80	7.61	8.30	7.38	7.35	7.25	---	---	7.64	14.83
27	8.23	8.33	7.77	7.57	8.03	7.25	7.39	7.26	7.39	---	7.60	14.71
28	8.21	8.28	7.74	7.57	7.93	7.45	7.42	7.07	7.45	7.46	7.57	14.04
29	---	8.21	7.73	7.52	7.88	7.47	7.49	7.03	7.41	7.51	7.55	13.46
30	8.24	---	7.72	7.51	---	7.36	7.53	7.21	7.38	7.47	7.52	12.75
31	8.18	---	7.70	7.91	---	7.41	---	7.39	---	7.46	7.46	---
TOTAL	---	---	---	237.63	---	---	219.62	---	---	---	238.66	295.80
MEAN	---	---	---	7.67	---	---	7.32	---	---	---	7.70	9.86
MAX	---	---	---	8.01	---	---	7.73	---	---	---	8.28	14.83
MIN	---	---	---	7.51	---	---	6.83	---	---	---	7.31	7.36

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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	147	53	49	33	44	36	21	17	18	13	9.6	63
2	e143	57	55	31	33	32	20	16	16	13	12	63
3	130	88	56	31	49	34	17	17	e15	14	11	62
4	122	e88	51	30	43	35	17	30	18	12	25	87
5	113	104	39	30	33	35	17	24	21	14	28	391
6	102	170	40	33	31	30	17	e20	19	17	36	504
7	86	234	40	34	32	33	18	17	18	16	31	437
8	76	220	45	30	30	e37	16	16	16	16	17	402
9	80	267	39	27	25	33	16	16	15	14	12	385
10	82	245	41	31	24	29	16	e15	e17	13	14	325
11	79	213	37	28	25	31	21	e11	14	13	36	282
12	88	196	34	27	30	27	34	13	14	13	52	249
13	86	195	34	23	35	26	30	14	15	28	74	220
14	86	181	39	29	31	29	23	e15	16	55	74	195
15	73	e169	48	33	28	31	20	16	16	36	76	184
16	63	157	38	32	26	34	20	20	16	25	85	171
17	55	145	40	31	27	35	20	18	16	16	76	167
18	53	e135	e39	39	24	29	19	18	16	17	98	157
19	46	130	36	51	25	27	16	16	15	23	124	149
20	55	127	34	31	24	25	13	15	16	20	99	183
21	91	111	35	27	23	24	13	14	15	17	85	370
22	e77	103	39	27	22	23	19	15	17	13	78	512
23	68	100	53	28	e22	23	16	15	15	13	84	393
24	66	88	49	26	20	24	13	12	15	10	85	325
25	65	e75	38	28	e40	20	13	12	15	10	93	317
26	e60	72	34	26	71	21	15	13	e14	e10	79	1,020
27	57	70	36	26	50	18	16	13	14	e10	74	1,100
28	54	63	33	28	43	21	18	13	15	11	72	1,070
29	e56	58	32	24	37	22	19	12	14	9.9	70	975
30	60	e52	33	25	---	18	20	14	14	9.4	68	874
31	59	---	32	47	---	20	---	15	---	8.4	66	---
TOTAL	2,478	3,966	1,248	946	947	862	553	492	475	509.7	1,843.6	11,632
MEAN	79.9	132	40.3	30.5	32.7	27.8	18.4	15.9	15.8	16.4	59.5	388
MAX	147	267	56	51	71	37	34	30	21	55	124	1,100
MIN	46	52	32	23	20	18	13	11	14	8.4	9.6	62
AC-FT	4,920	7,870	2,480	1,880	1,880	1,710	1,100	976	942	1,010	3,660	23,070

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

MEAN	79.9	132	44.0	31.2	28.7	27.8	29.5	50.6	69.1	31.8	81.4	250
MAX	79.9	132	47.8	31.9	32.7	27.8	40.6	85.4	122	47.1	103	388
(WY)	(2004)	(2004)	(2003)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	79.9	132	40.3	30.5	24.6	27.8	18.4	15.9	15.8	16.4	59.5	112
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS

	FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	25,952.3			
ANNUAL MEAN	70.9		70.9	
HIGHEST ANNUAL MEAN			70.9	
LOWEST ANNUAL MEAN			70.9	
HIGHEST DAILY MEAN	1,100	Sep 27	1,100	Sep 27, 2004
LOWEST DAILY MEAN	8.4	Jul 31	8.4	Jul 31, 2004
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 26	9.8	Jul 26, 2004
ANNUAL RUNOFF (AC-FT)	51,480		51,370	
10 PERCENT EXCEEDS	151		151	
50 PERCENT EXCEEDS	31		31	
90 PERCENT EXCEEDS	14		14	

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.