Water-Data Report 2010

02247258 LEHIGH CANAL NEAR FLAGLER BEACH, FL

East Florida Coastal Basin
Daytona-St. Augustine Subbasin

LOCATION.--Lat 29°29′50″, long 81°11′23″ referenced to North American Datum of 1927, in NW ¼ sec.4, T.12 S., R.31 E., Flagler County, FL, Hydrologic Unit 03080201, near center of channel on upstream side of bridge on Old Kings Road, 0.7 mi upstream from mouth at Graham Swamp, and 2.6 mi northwest of Flagler Beach.

DRAINAGE AREA.--21.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1998 to September 2010 (discontinued).

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 8.54 ft above NGVD of 1929 (Levitt & Sons Engineering Dept. bench mark).

REMARKS.--Records fair. Flow affected at times by operation of control structure 0.70 mi upstream.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17	7.2	3.8	14	26	17	33	3.7	74	6.5	1.9	5.3
2	18	6.9	3.8	17	49	17	29	3.4	23	8.2	3.1	4.4
3	19	6.6	6.2	12	53	18	26	3.0	41	16	3.6	3.8
4	18	6.3	7.5	11	40	16	24	2.9	81	17	3.5	3.7
5	18	7.1	31	20	37	14	22	3.0	29	13	3.1	17
6	21	6.7	23	43	37	13	20	3.5	18	8.5	2.6	30
7	39	6.3	18	26	34	13	19	3.9	16	7.0	3.5	10
8	28	5.9	16	19	30	7.8	17	3.6	18	6.7	4.6	6.3
9	24	5.5	14	17	28	0.70	17	3.5	25	7.2	5.0	5.0
10	22	5.9	15	16	36	0.56	14	4.5	10	7.9	3.9	4.5
11	20	6.9	14	16	33	113	14	3.3	6.4	9.1	3.9	4.1
12	18	7.8	13	15	40	101	14	2.7	8.4	10	4.6	3.7
13	17	6.3	13	15	60	60	13	2.4	6.5	8.5	4.0	3.9
14	16	4.1	12	15	45	45	12	2.0	5.2	8.5	5.2	3.7
15	16	4.4	11	15	40	37	12	1.7	6.1	7.1	4.6	3.1
16	15	4.4	11	15	34	32	10	1.6	12	11	3.6	2.8
17	15	5.2	9.2	15	27	30	9.5	238	12	8.4	3.2	2.6
18	13	4.1	13	15	25	27	9.4	75	15	7.1	3.3	2.5
19	12	3.8	15	15	23	25	9.6	24	11	7.7	3.0	2.6
20	11	3.8	12	15	21	23	9.0	14	7.7	7.1	9.1	3.1
21	9.9	3.7	11	16	19	36	8.8	11	10	5.5	24	2.6
22	9.4	3.8	10	69	19	48	7.9	9.2	14	4.1	13	2.0
23	9.0	5.0	9.2	48	24	31	6.5	7.7	11	3.7	9.2	2.8
24	9.0	4.6	8.8	36	22	25	6.1	6.8	7.3	3.4	6.9	5.8
25	8.3	4.8	10	39	22	24	6.2	12	4.9	3.2	5.9	8.5
26	7.8	5.7	11	38	19	77	7.3	9.6	4.1	3.0	8.4	8.5
27	7.8	4.9	8.6	29	18	40	6.4	6.4	9.4	2.8	24	7.6
28	9.1	4.0	8.0	25	18	34	5.8	6.2	21	2.8	15	7.2
29	8.1	3.4	8.9	23	---	80	5.6	5.4	9.9	2.7	10	6.9
30	7.5	3.2	8.6	26	---	56	4.3	7.7	6.9	1.3	8.4	6.7
31	7.6	---	8.2	29	---	39	---	9.6	---	1.4	6.6	---
Total	470.5	158.3	363.8	724	879	1,100.06	398.4	491.3	523.8	216.4	210.7	180.7
Mean	15.2	5.28	11.7	23.4	31.4	35.5	13.3	15.8	17.5	6.98	6.80	6.02
Max	39	7.8	31	69	60	113	33	238	81	17	24	30
Min	7.5	3.2	3.8	11	18	0.56	4.3	1.6	4.1	1.3	1.9	2.0
Cfsm	0.72	0.25	0.56	1.11	1.49	1.69	0.63	0.75	0.83	0.33	0.32	0.29
In.	0.83	0.28	0.64	1.28	1.56	1.95	0.71	0.87	0.93	0.38	0.37	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	30.7	14.4	13.3	11.3	16.3	16.4	7.48	16.4	10.4	20.7	33.8	67.1
Max	73.0	33.2	40.3	37.3	52.1	51.0	33.2	145	40.6	66.5	135	215
(WY)	(2006)	(2002)	(2006)	(2003)	(2007)	(2003)	(2005)	(2009)	(2005)	(2009)	(2009)	(2004)
Min	1.70	1.14	1.38	0.00	0.03	0.00	0.00	0.16	0.02	0.07	0.02	3.27
(WY)	(2007)	(2007)	(2000)	(2009)	(2009)	(2009)	(2009)	(2000)	(2000)	(2000)	(2000)	(1999)

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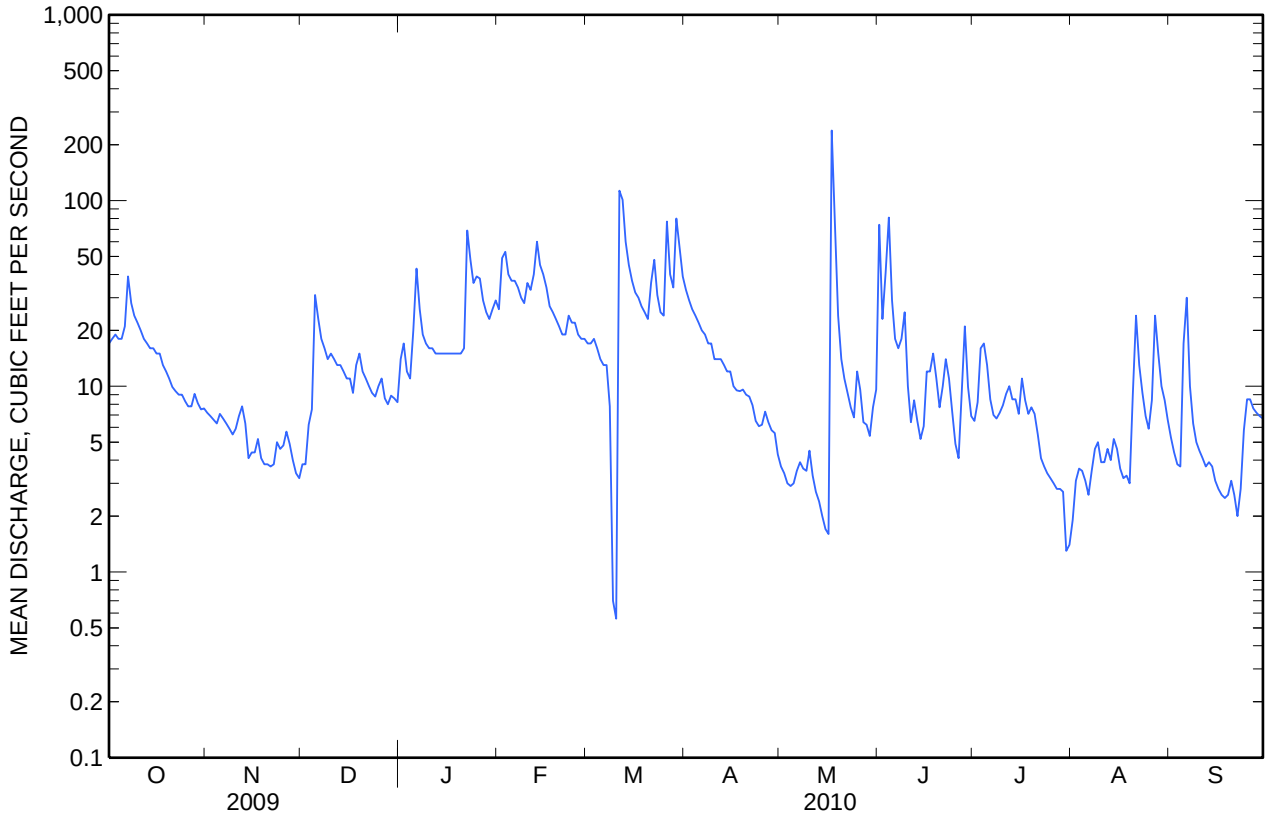
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1998 - 2010	
Annual total	14,746.26		5,716.96			
Annual mean	40.4		15.7		21.9	
Highest annual mean					40.7	2009
Lowest annual mean					7.98	2000
Highest daily mean	1,380	May 20	238	May 17	1,380	May 20, 2009
Lowest daily mean	0.00	Many days	0.56	Mar 10	0.00	Some years
Annual seven-day minimum	0.00	Jan 2	2.3	Jul 26	0.00	Some years
Maximum peak stage			7.85	May 17	9.68	Sep 20, 2007
Annual runoff (cfsm)	1.92		0.746		1.04	
Annual runoff (inches)	26.12		10.13		14.19	
10 percent exceeds	109		34		46	
50 percent exceeds	8.0		9.6		9.0	
90 percent exceeds	0.00		3.4		0.50