

Water-Data Report 2013

02293190 BILLY'S CREEK AT FT MYERS, FL

Southern Florida Basin
Caloosahatchee Subbasin

LOCATION.--Lat 26°39'14", long 81°50'26" referenced to North American Datum of 1983, Lee County, FL, Hydrologic Unit 03090205, located 375 yards upstream from S.R. 80 bridge on the right bank, 1 mi northeast of downtown Fort Myers.

DRAINAGE AREA.--Indeterminate

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: February 2008 to May 2013. Discontinued.

GAGE HEIGHT: February 2008 to May 2013. Discontinued.

REVISED RECORDS.--WDR-US-2010 site 02293090: 2008, 2009, gage height daily values and extremes revised to NAVD88 datum.

GAGE.--Internally logging acoustic Doppler velocity meter with acoustic stage recorder. Datum of gage is North American Vertical Datum of 1988 (NAVD88).

REMARKS.--Records fair, except for those of estimated daily discharges, which are poor. Streamflow at this site is significantly affected by astronomical tides. Daily mean discharge was computed from filtered unit value discharge data. The Godin low-pass filter was used to remove principal tidal frequencies from unit values. Positive discharge is generally to the southwest and negative discharge to the northeast. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>. Daily values of discharge and gage height are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge (unfiltered), 553 ft³/s Aug. 19, 2008; maximum negative (unfiltered), 183 ft³/s June 22, 2011.

GAGE HEIGHT: Maximum gage height, 2.78 ft June 26, 2012; minimum, -3.02 ft Sept. 30, 2009.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge (unfiltered), 408 ft³/s Oct. 3; maximum negative discharge (unfiltered), 109 ft³/s Apr. 29.

GAGE HEIGHT: Maximum gage height, 1.66 ft Oct. 19; minimum, -2.20 ft Feb. 17.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

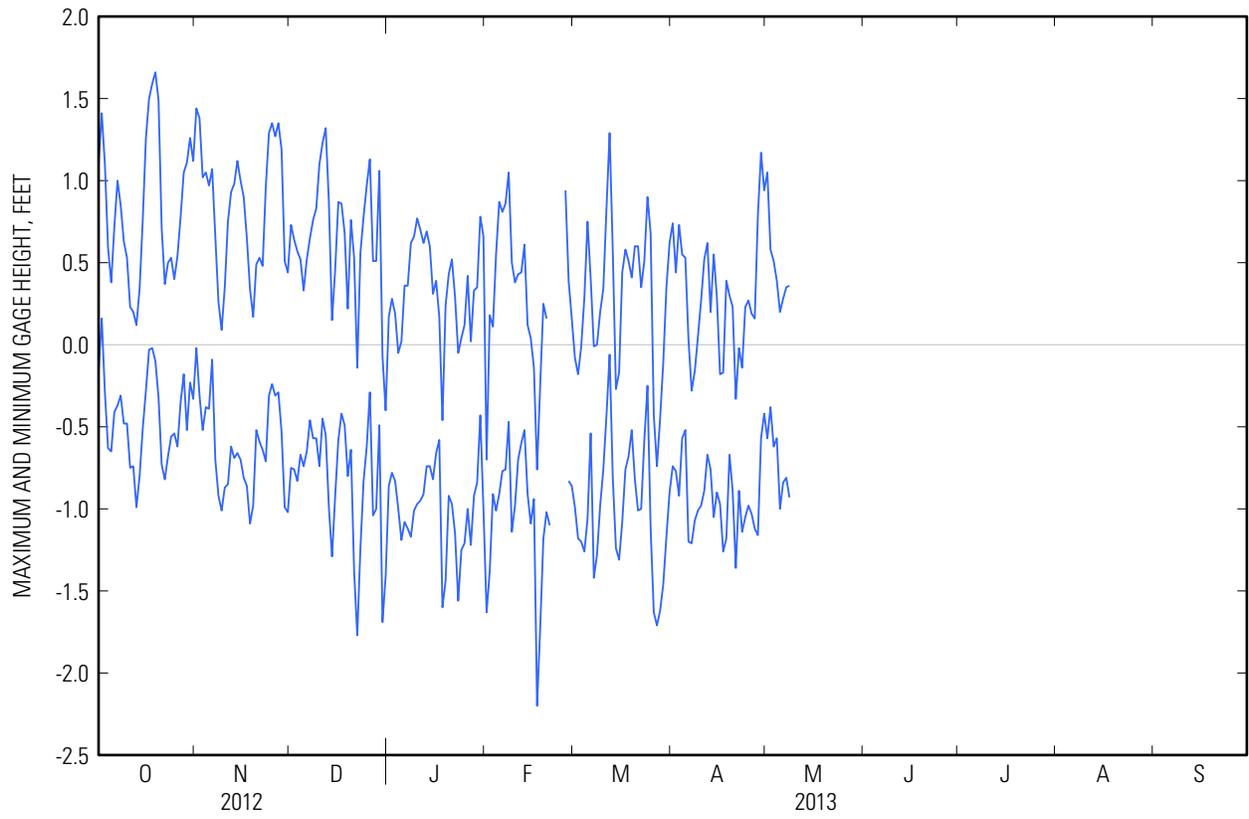
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1.10	-0.16	1.44	-0.02	0.73	-0.75	0.17	-0.86	-0.70	-1.63	-0.08	-0.99
2	1.41	0.16	1.38	-0.31	0.64	-0.76	0.28	-0.78	0.18	-1.38	-0.18	-1.18
3	1.10	-0.29	1.02	-0.52	0.57	-0.83	0.19	-0.83	0.11	-0.91	-0.01	-1.20
4	0.59	-0.63	1.05	-0.38	0.52	-0.67	-0.05	-1.00	0.55	-1.01	0.29	-1.26
5	0.38	-0.65	0.97	-0.39	0.33	-0.74	0.02	-1.19	0.87	-0.91	0.75	-1.06
6	0.72	-0.41	1.07	-0.09	0.52	-0.65	0.36	-1.08	0.81	-0.77	0.40	-0.54
7	1.00	-0.37	0.66	-0.70	0.65	-0.46	0.36	-1.12	0.86	-0.76	-0.01	-1.42
8	0.85	-0.31	0.26	-0.92	0.76	-0.57	0.62	-1.17	1.05	-0.47	0.00	-1.28
9	0.63	-0.48	0.09	-1.01	0.83	-0.57	0.66	-1.01	0.50	-1.14	0.20	-0.98
10	0.53	-0.48	0.35	-0.87	1.10	-0.74	0.77	-0.97	0.38	-0.98	0.34	-0.76
11	0.23	-0.75	0.75	-0.85	1.23	-0.45	0.70	-0.95	0.43	-0.70	0.83	-0.43
12	0.20	-0.74	0.93	-0.62	1.32	-0.55	0.62	-0.91	0.44	-0.60	1.29	-0.06
13	0.12	-0.99	0.98	-0.69	0.87	-0.99	0.69	-0.74	0.61	-0.52	0.57	-0.81
14	0.34	-0.80	1.12	-0.66	0.15	-1.29	0.60	-0.74	0.12	-0.91	-0.27	-1.24
15	0.76	-0.51	1.00	-0.70	0.46	-0.92	0.31	-0.82	0.04	-1.09	-0.17	-1.31
16	1.26	-0.28	0.90	-0.81	0.87	-0.58	0.39	-0.66	-0.14	-0.94	0.44	-1.08
17	1.50	-0.03	0.65	-0.86	0.86	-0.42	0.17	-0.58	-0.76	-2.20	0.58	-0.76
18	1.59	-0.02	0.34	-1.09	0.68	-0.49	-0.46	-1.60	-0.24	-1.72	0.51	-0.68
19	1.66	-0.10	0.17	-0.98	0.22	-0.80	0.24	-1.44	0.25	-1.18	0.41	-0.52
20	1.49	-0.32	0.49	-0.52	0.76	-0.64	0.43	-0.92	0.16	-1.02	0.60	-0.82
21	0.71	-0.73	0.53	-0.59	0.53	-1.38	0.52	-0.97	---	-1.10	0.60	-1.01
22	0.37	-0.82	0.48	-0.64	-0.14	-1.77	0.29	-1.15	---	---	0.35	-1.00
23	0.50	-0.68	0.96	-0.71	0.56	-1.24	-0.05	-1.56	---	---	0.51	-0.58
24	0.53	-0.56	1.29	-0.31	0.78	-0.83	0.04	-1.25	---	---	0.90	-0.25
25	0.40	-0.54	1.35	-0.24	0.97	-0.62	0.12	-1.21	---	---	0.68	-1.12
26	0.54	-0.62	1.27	-0.31	1.13	-0.29	0.42	-1.00	0.94	---	-0.43	-1.63
27	0.78	-0.35	1.35	-0.29	0.51	-1.04	0.02	-1.22	0.39	-0.83	-0.74	-1.71
28	1.05	-0.18	1.19	-0.53	0.51	-1.00	0.33	-0.92	0.16	-0.86	-0.45	-1.62
29	1.11	-0.52	0.51	-0.99	1.06	-0.49	0.35	-0.84	---	---	-0.11	-1.46
30	1.26	-0.23	0.44	-1.02	-0.07	-1.69	0.78	-0.43	---	---	0.35	-1.17
31	1.12	-0.33	---	---	-0.40	-1.41	0.66	-1.00	---	---	0.62	-0.90
Month	1.66	-0.99	1.44	-1.09	1.32	-1.77	0.78	-1.60	---	---	1.29	-1.71

02293190 BILLY'S CREEK AT FT MYERS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	0.74	-0.74	1.05	-0.57	---	---	---	---	---	---	---	---
2	0.44	-0.77	0.58	-0.38	---	---	---	---	---	---	---	---
3	0.73	-0.92	0.51	-0.62	---	---	---	---	---	---	---	---
4	0.55	-0.57	0.39	-0.57	---	---	---	---	---	---	---	---
5	0.53	-0.52	0.20	-1.00	---	---	---	---	---	---	---	---
6	0.03	-1.20	0.28	-0.84	---	---	---	---	---	---	---	---
7	-0.28	-1.21	0.35	-0.81	---	---	---	---	---	---	---	---
8	-0.16	-1.07	0.36	-0.93	---	---	---	---	---	---	---	---
9	0.05	-1.01	---	---	---	---	---	---	---	---	---	---
10	0.27	-0.98	---	---	---	---	---	---	---	---	---	---
11	0.52	-0.89	---	---	---	---	---	---	---	---	---	---
12	0.62	-0.67	---	---	---	---	---	---	---	---	---	---
13	0.20	-0.76	---	---	---	---	---	---	---	---	---	---
14	0.55	-1.05	---	---	---	---	---	---	---	---	---	---
15	0.29	-0.90	---	---	---	---	---	---	---	---	---	---
16	-0.18	-0.97	---	---	---	---	---	---	---	---	---	---
17	-0.17	-1.26	---	---	---	---	---	---	---	---	---	---
18	0.39	-1.18	---	---	---	---	---	---	---	---	---	---
19	0.30	-0.67	---	---	---	---	---	---	---	---	---	---
20	0.23	-0.89	---	---	---	---	---	---	---	---	---	---
21	-0.33	-1.36	---	---	---	---	---	---	---	---	---	---
22	-0.02	-0.89	---	---	---	---	---	---	---	---	---	---
23	-0.14	-1.14	---	---	---	---	---	---	---	---	---	---
24	0.23	-1.05	---	---	---	---	---	---	---	---	---	---
25	0.27	-0.98	---	---	---	---	---	---	---	---	---	---
26	0.19	-1.03	---	---	---	---	---	---	---	---	---	---
27	0.16	-1.12	---	---	---	---	---	---	---	---	---	---
28	0.79	-1.16	---	---	---	---	---	---	---	---	---	---
29	1.17	-0.57	---	---	---	---	---	---	---	---	---	---
30	0.94	-0.42	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	1.17	-1.36	---	---	---	---	---	---	---	---	---	---

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02293190 BILLY'S CREEK AT FT MYERS, FL—Continued

DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	57	24	1.4	-1.1	-1.7	4.0	10	23	---	---	---	---
2	117	27	0.27	0.50	-5.0	2.6	13	17	---	---	---	---
3	165	22	-4.2	-2.4	-0.78	3.1	6.1	-1.5	---	---	---	---
4	161	21	-5.3	-1.0	2.1	1.2	6.8	-1.1	---	---	---	---
5	89	19	-7.3	-6.4	4.5	4.8	3.7	-3.6	---	---	---	---
6	59	21	-9.8	-4.7	7.6	9.1	-0.54	0.97	---	---	---	---
7	55	21	-8.2	-0.41	6.3	4.7	-0.71	---	---	---	---	---
8	55	16	-6.2	-3.8	11	0.83	-2.5	---	---	---	---	---
9	45	15	-5.8	-3.1	7.6	-2.3	-5.5	---	---	---	---	---
10	37	14	-3.6	-0.47	0.50	-9.8	-5.5	---	---	---	---	---
11	33	9.8	12	0.26	4.4	-5.8	-3.3	---	---	---	---	---
12	28	11	18	-0.87	5.5	6.2	4.1	---	---	---	---	---
13	26	9.7	7.1	0.17	9.3	13	6.7	---	---	---	---	---
14	23	9.3	-3.7	1.9	17	8.0	4.2	---	---	---	---	---
15	39	7.8	-2.7	0.86	6.5	-2.0	3.9	---	---	---	---	---
16	49	3.7	2.0	-0.16	3.5	-3.8	0.37	---	---	---	---	---
17	39	3.1	5.7	2.1	5.3	0.65	-3.2	---	---	---	---	---
18	37	0.84	2.4	-2.1	e-1.8	3.1	-3.2	---	---	---	---	---
19	36	-4.8	-2.9	-8.5	e-0.80	9.3	2.0	---	---	---	---	---
20	34	-3.1	-0.77	-6.9	e2.6	9.2	6.5	---	---	---	---	---
21	29	-1.1	3.2	-5.8	e0.60	6.7	5.9	---	---	---	---	---
22	25	-2.0	-3.9	-3.9	e0.90	2.3	4.0	---	---	---	---	---
23	23	-2.6	-2.4	-8.0	e1.1	3.1	-0.35	---	---	---	---	---
24	21	5.1	0.71	-3.3	e2.3	2.0	-2.3	---	---	---	---	---
25	19	11	3.0	-1.6	e-2.3	9.7	-1.2	---	---	---	---	---
26	15	8.1	5.8	-2.5	e-2.0	3.6	-1.0	---	---	---	---	---
27	17	8.3	-1.9	-6.1	e-0.10	0.68	-1.2	---	---	---	---	---
28	22	7.2	-4.9	-6.6	3.8	-4.1	-2.2	---	---	---	---	---
29	22	1.3	3.4	-1.6	---	-4.3	1.2	---	---	---	---	---
30	19	-3.3	-2.8	0.97	---	-0.69	9.2	---	---	---	---	---
31	19	---	-6.8	5.1	---	3.8	---	---	---	---	---	---
Total	1,415	279.34	-18.19	-69.45	87.92	78.87	54.97	---	---	---	---	---
Mean	45.6	9.31	-0.59	-2.24	3.14	2.54	1.83	---	---	---	---	---
Max	165	27	18	5.1	17	13	13	---	---	---	---	---
Min	15	-4.8	-9.8	-8.5	-5.0	-9.8	-5.5	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	28.0	5.16	-1.50	-1.77	-0.96	-1.32	3.30	3.47	7.68	30.2	51.3	48.2
Max	53.7	15.7	0.25	-0.78	3.14	2.54	21.8	18.1	18.8	36.5	66.2	55.3
(WY)	(2012)	(2012)	(2010)	(2011)	(2013)	(2013)	(2010)	(2010)	(2010)	(2011)	(2012)	(2009)
Min	3.70	-0.09	-3.21	-2.24	-3.21	-3.27	-3.54	-2.20	0.72	22.1	36.8	41.4
(WY)	(2011)	(2009)	(2012)	(2013)	(2011)	(2008)	(2008)	(2012)	(2011)	(2010)	(2010)	(2011)

02293190 BILLY'S CREEK AT FT MYERS, FL—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Years 2008 - 2013	
Annual total	5,932.31			
Annual mean	16.2		13.9	
Highest annual mean			17.2	2012
Lowest annual mean			10.7	2011
Highest daily mean	165	Oct 3	218	Sep 30, 2008
Lowest daily mean	-13	Feb 13	-13	Feb 13, 2012
Annual seven-day minimum	-6.7	Dec 3	-7.5	Feb 15, 2011
10 percent exceeds	58		54	
50 percent exceeds	2.4		0.55	
90 percent exceeds	-5.6		-5.8	

