

Water-Data Report 2011

02293090 POPASH CREEK AT LEETANA ROAD NR NORTH FORT MYERS, FL

Southern Florida Basin
Caloosahatchee Subbasin

LOCATION.--Lat 26°42'56.58", long 81°48'31.2" referenced to North American Datum of 1983, Lee County, FL, Hydrologic Unit 03090205, located on the west bank, 20 ft north of Leetana Rd. bridge, 0.25 mi east of I-75, 5.5 mi northeast of North Fort Myers.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 2007 to current year.

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

GAGE.--Self-logging water-stage vented pressure sensor and acoustic Doppler velocity meter with acoustic stage sensor. Datum of gage is in NAVD88 (ft)

REMARKS.--Records poor. Streamflow at this site is affected by astronomical tides. Daily mean discharge was computed from filtered unit value discharge data. The Godin low-pass filter is used to remove principal tidal frequencies from unit values. Positive discharge (ebb tide) is generally to the southwest direction, and negative discharge (flood tide) to the northeast. Discharge and gage-height 15 minutes data are available in the files of the U.S. Geological Survey. Published 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), 366 ft³/s Aug. 26, 2008; maximum negative discharge (unfiltered), 37 ft³/s June 22, 2010.

GAGE HEIGHT: Maximum gage height, greater than 3.42 ft Aug. 26, 2008; minimum, -1.37 ft June 1, 2011.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge (unfiltered), 165 ft³/s Sept. 6; maximum negative discharge (unfiltered), 24 ft³/s May 15.

GAGE HEIGHT: Maximum gage height, 1.98 ft Nov. 5; minimum, -1.37 ft June 1.

02293090 POPASH CREEK AT LEETANA ROAD NR NORTH FORT MYERS, FL—Continued

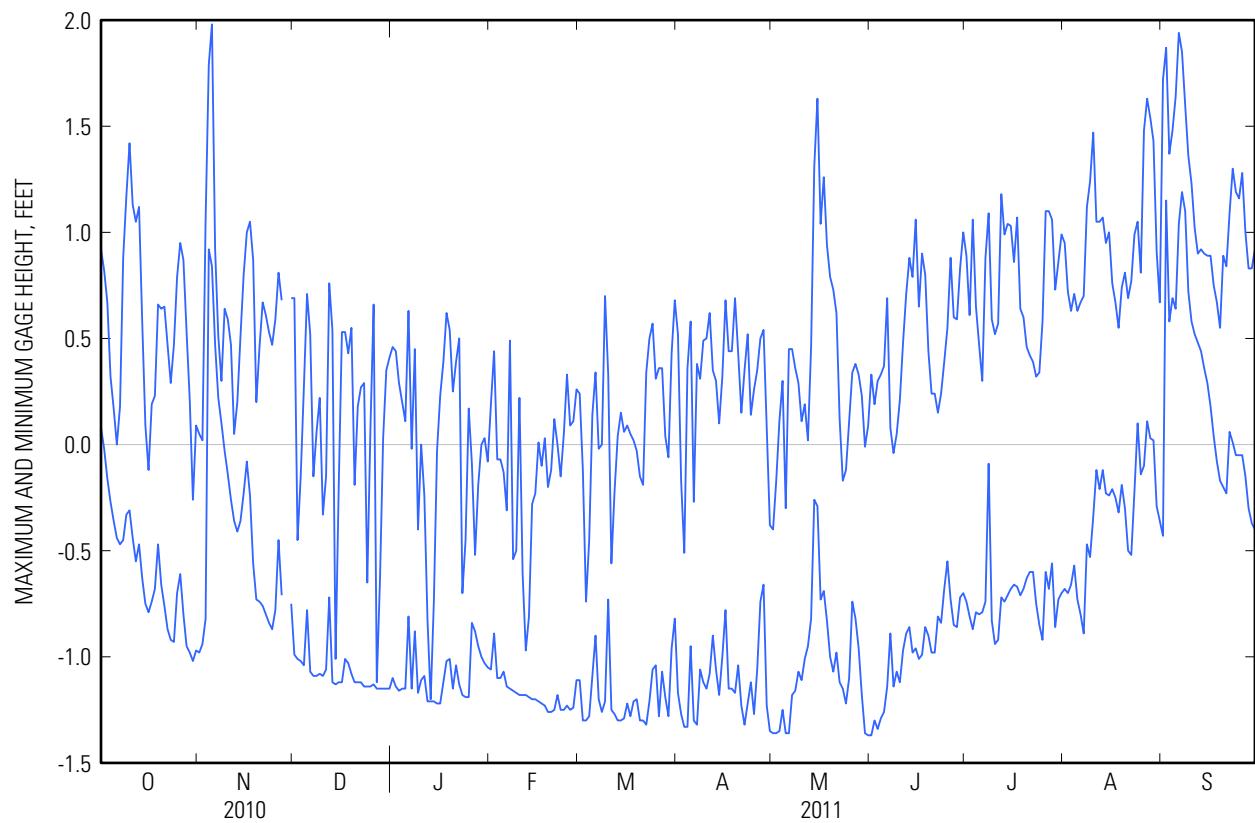
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	0.92	0.08	0.05	-0.98	0.69	-0.99	0.46	-1.10	0.19	-1.06	0.24	-1.11
2	0.82	-0.02	0.02	-0.94	-0.45	-1.01	0.44	-1.14	0.44	-0.89	-0.12	-1.30
3	0.67	-0.16	1.06	-0.82	-0.15	-1.02	0.29	-1.16	-0.07	-1.10	-0.74	-1.30
4	0.32	-0.27	1.79	0.92	0.27	-1.04	0.20	-1.15	-0.07	-1.10	-0.45	-1.28
5	0.17	-0.36	1.98	0.84	0.71	-0.78	0.11	-1.15	-0.13	-1.07	0.14	-1.09
6	0.00	-0.44	0.92	0.47	0.52	-1.07	0.63	-0.81	-0.31	-1.14	0.34	-0.90
7	0.18	-0.47	0.51	0.22	-0.15	-1.09	-0.02	-1.15	0.49	-1.15	-0.02	-1.20
8	0.88	-0.45	0.30	0.10	0.06	-1.09	0.45	-0.88	-0.54	-1.16	0.00	-1.26
9	1.17	-0.33	0.64	-0.03	0.22	-1.08	-0.40	-1.17	-0.50	-1.17	0.70	-1.21
10	1.42	-0.31	0.59	-0.14	-0.33	-1.09	0.00	-1.11	0.22	-1.18	0.33	-0.73
11	1.13	-0.44	0.47	-0.26	-0.15	-1.06	-0.24	-1.09	-0.61	-1.18	-0.56	-1.25
12	1.05	-0.55	0.05	-0.36	0.76	-0.72	-0.83	-1.21	-0.97	-1.18	-0.22	-1.27
13	1.12	-0.47	0.20	-0.41	0.54	-1.12	-1.20	-1.21	-0.81	-1.19	0.04	-1.30
14	0.58	-0.63	0.51	-0.36	-1.01	-1.13	-0.74	-1.21	-0.28	-1.20	0.15	-1.30
15	0.09	-0.75	0.80	-0.23	-0.19	-1.12	-0.03	-1.22	-0.23	-1.20	0.06	-1.29
16	-0.12	-0.79	1.00	-0.08	0.53	-1.12	0.23	-1.22	0.01	-1.21	0.09	-1.22
17	0.19	-0.74	1.05	-0.24	0.53	-1.01	0.39	-1.12	-0.10	-1.22	0.05	-1.28
18	0.23	-0.68	0.87	-0.56	0.43	-1.03	0.62	-1.02	0.03	-1.23	0.02	-1.21
19	0.66	-0.47	0.20	-0.73	0.55	-1.08	0.54	-1.01	-0.20	-1.26	-0.03	-1.20
20	0.64	-0.66	0.46	-0.74	-0.19	-1.12	0.25	-1.15	-0.12	-1.26	-0.15	-1.30
21	0.65	-0.76	0.67	-0.76	0.18	-1.12	0.39	-1.04	0.12	-1.25	-0.19	-1.30
22	0.47	-0.87	0.61	-0.80	0.27	-1.12	0.50	-1.13	0.00	-1.18	0.34	-1.32
23	0.29	-0.92	0.53	-0.84	0.29	-1.14	-0.70	-1.18	-0.15	-1.25	0.50	-1.21
24	0.47	-0.93	0.47	-0.87	-0.65	-1.14	-0.45	-1.19	0.05	-1.25	0.57	-1.06
25	0.79	-0.70	0.59	-0.78	0.08	-1.14	0.17	-1.19	0.33	-1.23	0.31	-1.04
26	0.95	-0.61	0.81	-0.45	0.66	-1.13	-0.09	-0.84	0.09	-1.25	0.36	-1.28
27	0.87	-0.80	0.68	-0.71	-1.12	-1.15	-0.52	-0.88	0.11	-1.24	0.36	-1.07
28	0.53	-0.95	---	---	-0.64	-1.15	-0.19	-0.95	0.26	-1.11	0.04	-1.19
29	0.21	-0.98	---	---	0.03	-1.15	0.00	-1.00	---	---	-0.06	-1.28
30	-0.26	-1.02	0.69	-0.75	0.35	-1.15	0.03	-1.03	---	---	0.43	-0.96
31	0.09	-0.97	---	---	0.41	-1.15	-0.08	-1.05	---	---	0.68	-0.82
Month	1.42	-1.02	---	---	0.76	-1.15	0.63	-1.22	0.49	-1.26	0.70	-1.32

02293090 POPASH CREEK AT LEETANA ROAD NR NORTH FORT MYERS, FL—Continued
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	0.52	-1.17	-0.40	-1.36	0.33	-1.37	0.89	-0.74	0.95	-0.68	1.72	-0.43
2	-0.17	-1.27	-0.17	-1.36	0.19	-1.30	0.61	-0.81	0.72	-0.70	1.87	1.15
3	-0.51	-1.33	0.11	-1.35	0.30	-1.34	1.06	-0.87	0.63	-0.66	1.37	0.58
4	0.36	-1.33	0.30	-1.25	0.33	-1.29	0.65	-0.79	0.71	-0.57	1.48	0.69
5	0.58	-0.95	-0.30	-1.36	0.37	-1.26	0.47	-0.80	0.63	-0.73	1.64	0.64
6	-0.27	-1.30	0.45	-1.36	0.69	-1.14	0.30	-0.79	0.67	-0.80	1.94	1.04
7	0.38	-1.32	0.45	-1.18	0.08	-0.89	0.88	-0.74	0.70	-0.89	1.85	1.19
8	0.31	-1.06	0.36	-1.16	-0.04	-1.14	1.09	-0.09	1.12	-0.47	1.60	1.10
9	0.49	-1.12	0.29	-1.07	0.05	-1.07	0.59	-0.83	1.24	-0.53	1.36	0.72
10	0.50	-1.15	0.11	-1.11	0.21	-1.12	0.52	-0.94	1.47	-0.34	1.23	0.58
11	0.62	-1.08	0.19	-1.01	0.48	-0.97	0.57	-0.92	1.05	-0.12	1.02	0.52
12	0.35	-0.90	0.02	-0.95	0.71	-0.89	1.18	-0.72	1.05	-0.21	0.90	0.48
13	0.30	-1.06	0.46	-0.82	0.88	-0.86	0.99	-0.74	1.07	-0.12	0.92	0.44
14	0.10	-1.18	1.31	-0.26	0.79	-0.98	1.04	-0.71	0.95	-0.23	0.90	0.36
15	0.32	-1.00	1.63	-0.29	1.06	-0.96	1.03	-0.68	1.00	-0.24	0.89	0.29
16	0.68	-0.78	1.04	-0.73	0.65	-1.01	0.86	-0.66	0.76	-0.21	0.89	0.18
17	0.44	-1.15	1.26	-0.69	0.90	-0.99	1.07	-0.67	0.67	-0.25	0.75	0.04
18	0.44	-1.15	0.94	-0.83	0.80	-0.86	0.64	-0.71	0.55	-0.32	0.67	-0.08
19	0.69	-1.17	0.79	-1.00	0.44	-0.90	0.60	-0.68	0.74	-0.19	0.55	-0.17
20	0.43	-1.04	0.73	-1.07	0.24	-0.98	0.46	-0.63	0.81	-0.30	0.89	-0.20
21	0.15	-1.23	0.62	-0.98	0.24	-0.98	0.42	-0.60	0.69	-0.50	0.84	-0.23
22	0.35	-1.32	0.12	-1.12	0.15	-0.81	0.39	-0.60	0.77	-0.52	1.09	0.06
23	0.52	-1.22	-0.17	-1.15	0.24	-0.84	0.32	-0.75	0.99	-0.22	1.30	0.01
24	0.14	-1.12	-0.12	-1.22	0.39	-0.68	0.34	-0.85	1.05	0.10	1.19	-0.05
25	0.26	-1.27	0.11	-1.10	0.55	-0.55	0.58	-0.92	0.81	-0.14	1.16	-0.05
26	0.35	-1.06	0.34	-0.74	0.88	-0.73	1.10	-0.60	1.48	-0.10	1.28	-0.05
27	0.50	-0.74	0.38	-0.82	0.60	-0.85	1.10	-0.68	1.63	0.11	1.00	-0.15
28	0.54	-0.66	0.33	-0.96	0.59	-0.86	1.06	-0.56	1.54	0.03	0.83	-0.30
29	0.08	-1.23	0.23	-1.18	0.83	-0.72	0.73	-0.86	1.43	0.02	0.83	-0.37
30	-0.38	-1.35	-0.01	-1.36	1.00	-0.70	0.86	-0.73	0.91	-0.29	0.92	-0.40
31	---	---	0.09	-1.37	---	---	0.99	-0.70	0.67	-0.36	---	---
Month	0.69	-1.35	1.63	-1.37	1.06	-1.37	1.18	-0.94	1.63	-0.89	1.94	-0.43

02293090 POPASH CREEK AT LEETANA ROAD NR NORTH FORT MYERS, FL—Continued



02293090 POPASH CREEK AT LEETANA ROAD NR NORTH FORT MYERS, FL—Continued

DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	42	2.3	6.6	3.9	4.3	0.99	e0.50	-0.67	-0.47	4.9	1.9	e25
2	38	4.5	6.0	3.7	3.9	0.74	e0.50	-1.2	-0.55	4.4	1.8	e37
3	32	31	6.8	3.1	3.5	0.28	e0.60	-0.57	-0.58	3.8	1.4	e28
4	31	101	6.6	1.3	3.3	0.21	e0.50	-0.36	-0.50	4.5	1.5	e22
5	28	123	7.1	0.78	2.9	0.17	e0.58	-0.30	-0.49	4.7	1.6	e27
6	24	78	5.8	2.6	2.6	0.34	0.35	-0.08	-0.85	5.2	1.1	72
7	20	48	5.0	2.0	2.3	0.20	-0.25	-0.44	-0.82	6.8	1.6	107
8	17	38	5.3	2.2	2.4	-0.02	-0.36	-0.32	-0.51	8.6	4.5	93
9	15	35	5.6	0.55	2.2	0.24	-0.16	0.22	-0.66	7.3	9.3	80
10	14	29	5.2	1.2	2.4	1.0	-0.22	-0.46	-0.78	6.0	19	67
11	12	24	4.8	1.7	2.4	1.3	-0.20	-1.3	-1.0	5.6	e24	61
12	12	21	5.0	0.28	2.4	0.87	-0.01	-1.1	-1.1	5.2	e20	57
13	12	20	4.6	-3.7	2.2	0.81	0.19	-2.1	-0.63	5.1	e21	54
14	11	17	3.7	-3.9	2.0	0.76	-0.18	-2.9	-0.54	4.6	e20	50
15	8.8	13	2.5	1.5	1.9	0.56	-0.65	-2.7	-0.80	3.4	e18	45
16	6.7	17	5.9	1.9	1.8	0.56	-0.61	-0.94	-0.88	3.1	e16	39
17	5.5	17	6.1	1.4	1.7	0.42	-0.06	-0.61	-1.5	2.9	13	32
18	5.2	14	5.1	2.4	1.3	0.22	0.14	-0.57	-1.2	2.5	15	27
19	5.4	8.9	4.7	1.7	1.3	0.11	-0.29	-0.34	-1.1	2.5	13	23
20	5.3	8.9	3.8	1.5	1.7	0.75	-0.22	-0.19	-1.4	2.3	9.9	21
21	4.6	11	4.4	1.2	1.6	1.3	-0.25	-0.40	-0.99	2.6	8.2	20
22	3.9	8.2	4.5	1.4	1.4	0.90	-0.51	-0.65	0.52	3.9	9.1	23
23	4.2	6.0	4.5	1.9	1.0	0.23	-0.89	-0.70	-0.65	4.0	16	28
24	3.8	5.9	2.9	1.7	0.56	0.70	-1.2	-0.34	-0.35	3.6	29	27
25	3.5	5.0	3.0	3.3	0.92	1.1	-0.60	-0.31	2.8	3.1	29	24
26	3.4	e4.5	3.6	9.0	1.2	0.43	-0.77	-0.61	3.6	3.2	23	24
27	3.2	e4.4	1.5	10	1.2	0.20	-0.69	-0.40	2.5	3.1	21	22
28	2.8	e3.8	4.9	7.8	1.1	0.25	-0.68	-0.37	4.3	3.0	22	20
29	2.8	e4.6	6.0	6.0	---	0.24	-0.51	-0.25	5.6	3.0	25	17
30	2.4	e7.0	5.2	5.1	---	0.08	-0.54	-0.14	5.4	2.5	23	15
31	2.3	---	4.8	4.7	---	e0.77	---	-0.31	---	2.2	21	---
Mean	12.3	23.7	4.89	2.52	2.05	0.54	-0.22	-0.69	0.21	4.12	14.2	39.6
Max	42	123	7.1	10	4.3	1.3	0.60	0.22	5.6	8.6	29	107
Min	2.3	2.3	1.5	-3.9	0.56	-0.02	-1.2	-2.9	-1.5	2.2	1.1	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.84	8.82	3.18	1.36	1.02	0.46	-0.10	0.70	0.18	6.62	10.5	45.6
Max	12.3	23.7	4.89	2.52	2.05	0.61	0.02	2.77	0.21	14.0	14.2	51.7
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2008)	(2009)	(2010)	(2011)	(2008)	(2011)	(2010)
Min	1.36	0.09	1.48	0.93	0.32	0.23	-0.22	-0.69	0.14	1.72	6.87	39.6
(WY)	(2010)	(2010)	(2010)	(2008)	(2009)	(2009)	(2011)	(2011)	(2010)	(2010)	(2010)	(2011)

02293090 POPASH CREEK AT LEETANA ROAD NR NORTH FORT MYERS, FL—Continued**SUMMARY STATISTICS**

	Water Year 2011		Water Years 2008 - 2011	
Annual mean	8.57		8.57	
Highest annual mean			8.57	2011
Lowest annual mean			8.57	2011
Highest daily mean	123	Nov 5	264	Aug 23, 2008
Lowest daily mean	-3.9	Jan 14	-3.9	Jan 14, 2011
Annual seven-day minimum	-1.7	May 11	-1.7	May 11, 2011
10 percent exceeds	24		24	
50 percent exceeds	2.9		2.9	
90 percent exceeds	-0.60		-0.60	

