

Water-Data Report 2013

263120081595500 Shell Point Canal near Iona, FL

Southern Florida Basin
Caloosahatchee Subbasin

LOCATION.--Lat 26°31'20", long 81°59'55" referenced to North American Datum of 1983, Lee County, FL, Hydrologic Unit 03090205, located in the Shell Point Canal of the Shell Point Retirement Community, 0.2 mi upstream from the mouth of the Caloosahatchee River, 2.1 mi west of Iona, 12 mi downstream of downtown Fort Myers.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 2007 to April 2013. (Discontinued).

REMARKS.--Records fair, except those estimated daily discharges, which are poor. Streamflow at this site is significantly affected by astronomical tides. Discharge computed from relation of gage height and velocity at Caloosahatchee River at Shell Point near Iona (02293210) and discharge measurements made at Shell Point Canal near Iona (263120081595500) location. 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, and negative discharge (flood tide) to the northeast. Discharge and gage-height 15 minute data are available in the files of the U.S. Geological Survey. Published data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge (unfiltered), 2,320 ft³/s Sept. 10, 2008; maximum negative (unfiltered), 3,030 ft³/s Aug. 27, 2012.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge (unfiltered), 2,180 ft³/s Oct. 16; maximum negative (unfiltered), 2,330 ft³/s Mar. 12.

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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	96	190	20	-76	200	211	115	---	---	---	---	---
2	278	288	58	75	-39	161	149	---	---	---	---	---
3	439	226	23	153	59	112	40	---	---	---	---	---
4	438	193	57	224	-14	-19	151	---	---	---	---	---
5	344	151	100	107	-20	-57	260	---	---	---	---	---
6	344	228	e87	35	39	231	288	---	---	---	---	---
7	370	346	e76	64	45	171	88	---	---	---	---	---
8	384	273	e43	20	199	8.1	45	---	---	---	---	---
9	460	186	e45	18	178	-7.7	113	---	---	---	---	---
10	461	69	e46	43	26	-29	79	---	---	---	---	---
11	433	3.5	e110	39	10	-103	32	---	---	---	---	---
12	366	44	176	28	45	96	133	---	---	---	---	---
13	303	23	257	43	128	364	184	---	---	---	---	---
14	182	49	58	110	279	e246	97	---	---	---	---	---
15	163	107	-52	76	179	e54	162	---	---	---	---	---
16	173	144	-1.2	38	307	e21	202	---	---	---	---	---
17	152	124	43	236	258	e26	91	---	---	---	---	---
18	152	163	97	175	-88	e31	-6.5	---	---	---	---	---
19	225	45	60	-123	7.9	e23	200	---	---	---	---	---
20	333	28	85	-39	147	e37	350	---	---	---	---	---
21	352	121	392	82	84	250	179	---	---	---	---	---
22	232	104	36	260	59	24	172	---	---	---	---	---
23	172	-44	-58	109	54	50	153	---	---	---	---	---
24	196	-43	3.6	47	98	124	35	---	---	---	---	---
25	192	38	-16	40	-51	416	96	---	---	---	---	---
26	113	1.3	176	122	-7.9	324	112	---	---	---	---	---
27	70	44	222	24	169	142	32	---	---	---	---	---
28	94	203	0.83	-53	157	48	e-212	---	---	---	---	---
29	136	124	244	-87	---	23	e-50	---	---	---	---	---
30	229	16	270	-26	---	39	---	---	---	---	---	---
31	143	---	-97	332	---	57	---	---	---	---	---	---
Total	8,025	3,444.8	2,561.23	2,096	2,508.0	3,073.4	---	---	---	---	---	---
Mean	259	115	82.6	67.6	89.6	99.1	---	---	---	---	---	---

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