

Water-Data Report 2011

**251032080473400 Alligator Creek near Garfield Bight, FL**

Southern Florida Basin  
Everglades Subbasin

LOCATION.--Lat 25°10'32", long 80°47'34" referenced to North American Datum of 1983, Miami-Dade County, FL, Hydrologic Unit 03090202, Northeast part of Garfield Bight, approximately 8.5 mi east northeast of the marina located in Flamingo.

DRAINAGE AREA.--Indeterminate.

**SURFACE-WATER RECORDS**

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

GAGE.--Acoustic Doppler velocity meter with up-looking acoustic depth sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Record poor. During periods of missing record, values may be higher or lower than the listed extremes. Positive flow is westerly towards Garfield Bight. The discharge for this station is more affected by wind than astronomical tides. Discharge at wind-driven sites may require a different filter (subtidal) than the Godin low-pass filter. Daily mean discharge is not published. Mean monthly discharge tables for the period of record are published. Mean monthly discharge tables only include months with a complete record of daily mean discharges. Discharge and gage height records are available in the files of the U.S. Geological Survey. Discharge and gage height 15 minute data and mean monthly discharge data can also be accessed online at <http://sofia.usgs.gov/>. Gage height daily values are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 157 ft<sup>3</sup>/s Sept. 29, 2010; maximum negative, 177 ft<sup>3</sup>/s Feb. 13, 2008.

GAGE HEIGHT: Maximum gage height, 1.53 ft Aug. 19, 2008; minimum, -1.75 ft Apr. 29, 2009.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 147 ft<sup>3</sup>/s Oct. 2, 5; maximum negative, 132 ft<sup>3</sup>/s Aug. 26.

GAGE HEIGHT: Maximum gage height, 0.44 ft Aug. 28; minimum, -1.63 ft Mar. 4.

## 251032080473400 Alligator Creek near Garfield Bight, FL—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

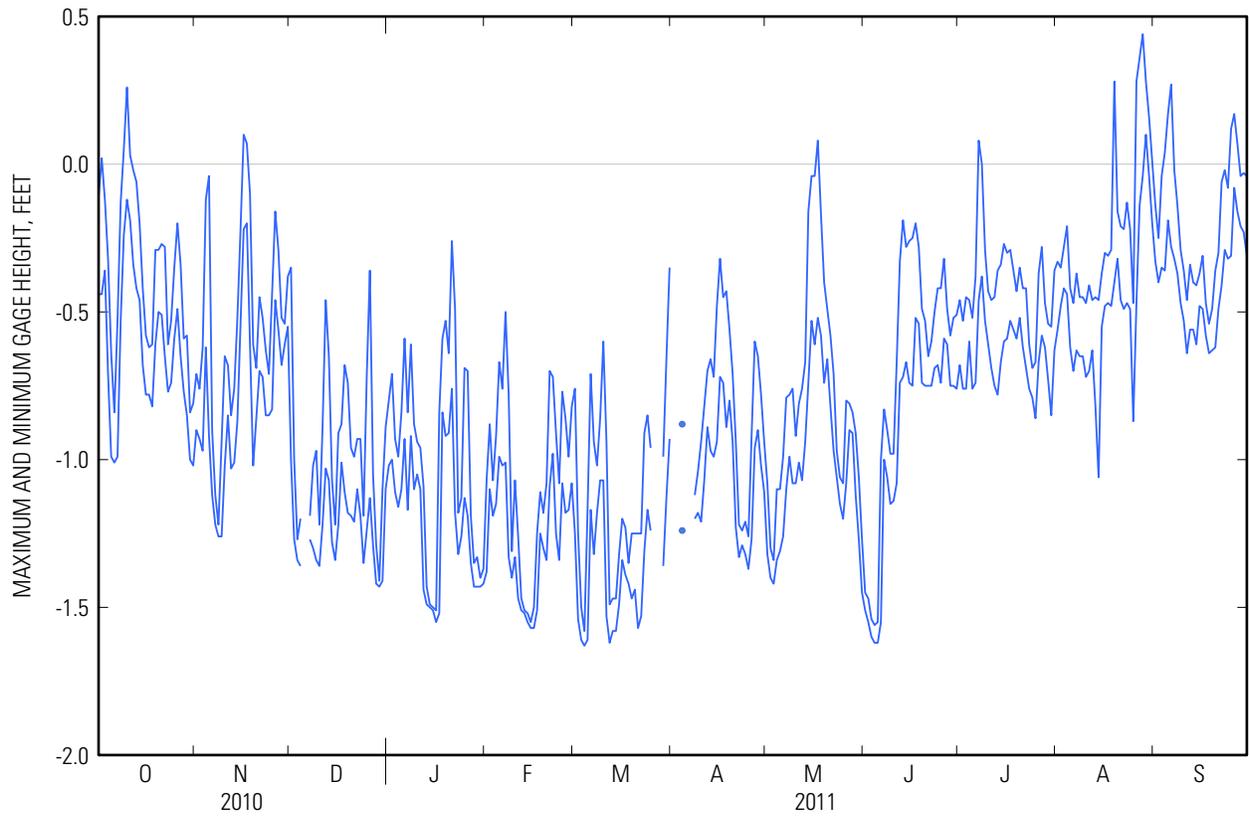
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
<b>1</b>	-0.11	-0.44	-0.71	-0.90	-0.35	-1.00	-0.80	-1.02	-1.07	-1.38	-0.76	-1.25
<b>2</b>	0.02	-0.44	-0.76	-0.93	-1.00	-1.27	-0.71	-1.00	-0.88	-1.10	-1.25	-1.54
<b>3</b>	-0.12	-0.36	-0.62	-0.97	-1.27	-1.34	-0.93	-1.11	-1.07	-1.19	-1.50	-1.61
<b>4</b>	-0.32	-0.71	-0.12	-0.62	-1.20	-1.36	-0.99	-1.16	-0.92	-1.15	-1.58	-1.63
<b>5</b>	-0.64	-0.99	-0.04	-0.92	---	---	-0.84	-1.10	-0.67	-0.99	-1.17	-1.61
<b>6</b>	-0.84	-1.01	-0.90	-1.12	---	---	-0.59	-0.93	-0.76	-1.02	-0.71	-1.17
<b>7</b>	-0.53	-0.99	-1.12	-1.22	-1.19	-1.27	-0.84	-1.17	-0.50	-1.01	-0.94	-1.32
<b>8</b>	-0.13	-0.53	-1.22	-1.26	-1.02	-1.30	-0.61	-0.92	-0.78	-1.33	-1.02	-1.18
<b>9</b>	0.05	-0.24	-0.94	-1.26	-0.97	-1.34	-0.88	-1.10	-1.31	-1.40	-0.86	-1.07
<b>10</b>	0.26	-0.12	-0.65	-1.02	-1.22	-1.36	-0.94	-1.05	-1.07	-1.33	-0.60	-1.07
<b>11</b>	0.03	-0.19	-0.68	-0.85	-0.89	-1.22	-0.96	-1.10	-1.26	-1.47	-0.94	-1.53
<b>12</b>	-0.02	-0.34	-0.85	-1.03	-0.46	-1.03	-1.09	-1.44	-1.47	-1.51	-1.49	-1.62
<b>13</b>	-0.06	-0.42	-0.76	-1.01	-0.65	-1.07	-1.43	-1.49	-1.51	-1.52	-1.47	-1.58
<b>14</b>	-0.20	-0.46	-0.52	-0.87	-1.07	-1.28	-1.49	-1.50	-1.52	-1.55	-1.47	-1.58
<b>15</b>	-0.42	-0.68	-0.22	-0.54	-1.22	-1.34	-1.50	-1.51	-1.55	-1.57	-1.32	-1.49
<b>16</b>	-0.58	-0.78	0.10	-0.22	-0.91	-1.22	-1.51	-1.55	-1.50	-1.57	-1.20	-1.34
<b>17</b>	-0.62	-0.78	0.07	-0.20	-0.88	-1.01	-0.84	-1.52	-1.25	-1.51	-1.23	-1.39
<b>18</b>	-0.61	-0.82	-0.10	-0.61	-0.68	-1.11	-0.59	-0.84	-1.11	-1.25	-1.35	-1.42
<b>19</b>	-0.29	-0.61	-0.61	-1.02	-0.74	-1.18	-0.53	-0.92	-1.18	-1.30	-1.25	-1.47
<b>20</b>	-0.29	-0.50	-0.69	-0.86	-0.96	-1.19	-0.64	-0.91	-1.08	-1.34	-1.25	-1.44
<b>21</b>	-0.27	-0.51	-0.45	-0.70	-0.99	-1.21	-0.26	-0.76	-0.70	-1.09	-1.25	-1.57
<b>22</b>	-0.28	-0.65	-0.52	-0.72	-0.93	-1.10	-0.49	-1.18	-0.72	-0.98	-1.25	-1.53
<b>23</b>	-0.61	-0.77	-0.63	-0.85	-0.93	-1.19	-1.18	-1.32	-0.91	-1.25	-0.91	-1.31
<b>24</b>	-0.53	-0.74	-0.71	-0.85	-1.19	-1.35	-1.13	-1.26	-1.08	-1.34	-0.85	-1.17
<b>25</b>	-0.35	-0.59	-0.44	-0.83	-0.72	-1.24	-0.69	-1.13	-0.77	-1.08	-0.96	-1.24
<b>26</b>	-0.20	-0.49	-0.16	-0.46	-0.36	-1.13	-0.70	-1.19	-0.86	-1.18	---	---
<b>27</b>	-0.34	-0.65	-0.29	-0.56	-1.05	-1.29	-1.19	-1.35	-0.99	-1.17	---	---
<b>28</b>	-0.59	-0.77	-0.52	-0.68	-1.29	-1.42	-1.35	-1.43	-0.82	-1.08	---	---
<b>29</b>	-0.58	-0.85	-0.54	-0.61	-1.41	-1.43	-1.33	-1.43	---	---	-0.99	-1.36
<b>30</b>	-0.84	-1.00	-0.38	-0.55	-1.10	-1.41	-1.40	-1.43	---	---	-0.66	-1.13
<b>31</b>	-0.81	-1.02	---	---	-0.89	-1.10	-1.37	-1.42	---	---	-0.35	-0.93
<b>Month</b>	0.26	-1.02	0.10	-1.26	---	---	-0.26	-1.55	-0.50	-1.57	---	---

## 251032080473400 Alligator Creek near Garfield Bight, 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	---	---	-1.08	-1.32	-1.45	-1.51	-0.46	-0.68	-0.33	-0.56	-0.14	-0.33
2	---	---	-1.30	-1.40	-1.47	-1.55	-0.53	-0.76	-0.35	-0.48	-0.25	-0.40
3	---	---	-1.34	-1.42	-1.54	-1.60	-0.45	-0.76	-0.28	-0.42	-0.04	-0.35
4	-0.88	-1.24	-1.10	-1.34	-1.56	-1.62	-0.46	-0.60	-0.21	-0.44	0.04	-0.36
5	---	---	-1.10	-1.31	-1.55	-1.62	-0.52	-0.76	-0.42	-0.62	0.17	-0.19
6	---	---	-0.99	-1.26	-1.00	-1.55	-0.38	-0.74	-0.47	-0.70	0.27	-0.28
7	---	---	-0.79	-1.10	-0.83	-1.00	0.08	-0.46	-0.37	-0.63	-0.02	-0.32
8	-1.12	-1.20	-0.78	-0.99	-0.90	-1.06	0.00	-0.38	-0.45	-0.65	-0.14	-0.37
9	-1.04	-1.18	-0.76	-1.08	-0.98	-1.15	-0.29	-0.53	-0.45	-0.65	-0.29	-0.47
10	-0.94	-1.21	-0.92	-1.08	-0.98	-1.14	-0.43	-0.61	-0.47	-0.72	-0.36	-0.53
11	-0.82	-1.07	-0.81	-1.01	-0.67	-1.08	-0.46	-0.69	-0.41	-0.70	-0.46	-0.64
12	-0.70	-0.89	-0.76	-1.07	-0.33	-0.74	-0.45	-0.75	-0.46	-0.63	-0.34	-0.56
13	-0.66	-0.97	-0.67	-0.94	-0.19	-0.72	-0.36	-0.78	-0.45	-0.82	-0.40	-0.56
14	-0.72	-0.99	-0.16	-0.74	-0.28	-0.67	-0.34	-0.67	-0.46	-1.06	-0.41	-0.61
15	-0.48	-0.94	-0.04	-0.53	-0.26	-0.74	-0.27	-0.60	-0.37	-0.55	-0.37	-0.48
16	-0.32	-0.72	-0.04	-0.61	-0.25	-0.75	-0.30	-0.59	-0.30	-0.48	-0.31	-0.49
17	-0.45	-0.74	0.08	-0.52	-0.20	-0.52	-0.29	-0.53	-0.31	-0.47	-0.47	-0.58
18	-0.43	-0.89	-0.17	-0.58	-0.28	-0.54	-0.36	-0.56	-0.29	-0.48	-0.54	-0.64
19	-0.56	-0.80	-0.40	-0.74	-0.49	-0.74	-0.43	-0.59	0.28	-0.40	-0.49	-0.63
20	-0.71	-0.94	-0.49	-0.66	-0.53	-0.75	-0.35	-0.52	-0.16	-0.32	-0.36	-0.62
21	-0.94	-1.23	-0.58	-0.82	-0.65	-0.75	-0.42	-0.62	-0.21	-0.46	-0.30	-0.49
22	-1.22	-1.33	-0.71	-0.97	-0.60	-0.75	-0.42	-0.69	-0.22	-0.49	-0.06	-0.41
23	-1.24	-1.29	-0.97	-1.06	-0.50	-0.69	-0.61	-0.76	-0.13	-0.47	-0.02	-0.29
24	-1.21	-1.32	-1.06	-1.15	-0.42	-0.68	-0.69	-0.79	-0.22	-0.49	-0.08	-0.32
25	-1.26	-1.37	-1.08	-1.20	-0.42	-0.74	-0.67	-0.86	-0.47	-0.87	0.12	-0.31
26	-0.92	-1.27	-0.80	-1.08	-0.32	-0.59	-0.37	-0.67	0.28	-0.47	0.17	-0.08
27	-0.60	-0.96	-0.81	-0.90	-0.49	-0.61	-0.28	-0.58	0.36	-0.14	0.07	-0.16
28	-0.65	-0.90	-0.84	-0.91	-0.58	-0.75	-0.47	-0.62	0.44	-0.04	-0.04	-0.21
29	-0.78	-1.02	-0.91	-1.12	-0.52	-0.75	-0.54	-0.73	0.28	0.10	-0.03	-0.23
30	-0.94	-1.11	-1.06	-1.27	-0.51	-0.76	-0.55	-0.85	0.16	-0.04	-0.04	-0.31
31	---	---	-1.27	-1.45	---	---	-0.36	-0.63	0.01	-0.20	---	---
Month	---	---	0.08	-1.45	-0.19	-1.62	0.08	-0.86	0.44	-1.06	0.27	-0.64

251032080473400 Alligator Creek near Garfield Bight, FL—Continued



## 251032080473400 Alligator Creek near Garfield Bight, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND  
MONTHLY MEAN VALUES

2007	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	---	---	0.13	---	---	---	20.7

DISCHARGE, CUBIC FEET PER SECOND  
MONTHLY MEAN VALUES

2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	56.7	20.9	5.33	-1.24	-3.02	-3.42	-20.8	-20.4	-9.89	-21.5	23.7	30.8

## SUMMARY STATISTICS

	Water Year 2008	Water Years 2007 - 2008
Annual mean	4.79	4.79

DISCHARGE, CUBIC FEET PER SECOND  
MONTHLY MEAN VALUES

2009	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	56.5	22.9	26.6	11.0	-2.50	-27.3	-18.2	-40.1	2.71	49.0	17.3	39.7

## SUMMARY STATISTICS

	Calendar Year 2008	Water Year 2009	Water Years 2007 - 2009
Annual mean	6.75	11.6	8.18

DISCHARGE, CUBIC FEET PER SECOND  
MONTHLY MEAN VALUES

2010	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	24.9	7.72	34.4	25.6	---	13.8	-5.32	-12.4	-10.1	-4.71	---	---

## SUMMARY STATISTICS

	Calendar Year 2009	Water Years 2007 - 2010
Annual mean	8.30	8.18

251032080473400 Alligator Creek near Garfield Bight, FL—Continued

**DISCHARGE, CUBIC FEET PER SECOND  
MONTHLY MEAN VALUES**

<b>2011</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	65.7	29.3	---	25.3	13.4	---	---	-23.7	-30.0	0.74	-10.9	23.6

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2011, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	51.0	20.2	22.1	15.2	2.57	-5.66	-14.8	-19.3	-11.8	5.88	10.0	28.7

**SUMMARY STATISTICS**

<b>Water Years 2007 - 2011</b>	
<b>Annual mean</b>	8.18