

Water-Data Report 2011

251355080312800 JOE BAY 2E NEAR KEY LARGO, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°13'57.45", long 80°31'29.52" referenced to North American Datum of 1983, in T.60 S., R.38 E., Miami-Dade County, FL, Hydrologic Unit 03090202, located on the east side of Joe Bay on the left bank, approximately 10 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--Revised unit value discharge for the 2005 and 2006 water years superseding those published in WDR FL-05-2A and WDR-US-2006, site 251355080312800.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter acoustic stage sensor, and vented pressure stage sensor. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records fair. Discharge and gage height records are available in the files of the U.S. Geological Survey. Discharge and gage height 15 minute data can also be accessed online at <http://sofia.usgs.gov/>. Daily values of gage height are available online at <http://waterdata.usgs.gov/nwis>. Daily mean discharge is not published. 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.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 137 ft³/s Sept. 20, 2005; maximum negative, 344 ft³/s Oct. 24, 2005.

GAGE HEIGHT: Maximum gage height, 3.18 ft. Oct. 24, 2005; minimum, -1.68 ft Feb. 6, 2009.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 89 ft³/s Sept. 24; maximum negative, 140 ft³/s July 17.

GAGE HEIGHT: Maximum gage height, 0.75 ft Oct. 1; minimum gage height, -1.52 ft Feb. 13.

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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	0.75	0.58	-0.44	-0.50	-0.15	-0.39	-0.65	-0.75	-0.96	-1.10	-0.73	-0.86
2	0.58	0.48	-0.47	-0.57	-0.39	-0.71	-0.63	-0.67	-0.90	-0.97	-0.85	-1.15
3	0.48	0.36	-0.37	-0.64	-0.71	-0.89	-0.66	-0.76	-0.91	-0.96	-1.08	-1.38
4	0.40	0.22	-0.13	-0.40	-0.81	-0.94	-0.73	-0.77	-0.86	-0.93	-1.22	-1.36
5	0.25	0.07	-0.04	-0.28	-0.57	-0.83	-0.71	-0.78	-0.76	-0.89	-1.11	-1.28
6	0.09	-0.12	-0.27	-0.49	-0.58	-0.73	-0.41	-0.72	-0.79	-0.84	-0.90	-1.11
7	0.02	-0.07	-0.49	-0.71	-0.73	-0.82	-0.56	-0.71	-0.62	-0.86	-0.90	-1.01
8	0.12	0.01	-0.70	-0.81	-0.70	-0.83	-0.41	-0.59	-0.69	-0.93	-0.83	-0.91
9	0.24	0.12	-0.61	-0.78	-0.69	-0.87	-0.49	-0.65	-0.93	-1.02	-0.79	-0.87
10	0.31	0.24	-0.39	-0.61	-0.78	-0.93	-0.64	-0.68	-0.92	-1.00	-0.57	-0.85
11	0.28	0.21	-0.35	-0.43	-0.59	-0.78	-0.68	-0.74	-1.00	-1.16	-0.76	-1.03
12	0.24	0.15	-0.40	-0.54	-0.34	-0.61	-0.73	-1.06	-1.15	-1.36	-0.97	-1.13
13	0.23	0.18	-0.43	-0.52	-0.26	-0.61	-1.06	-1.31	-1.36	-1.52	-1.06	-1.12
14	0.19	0.16	-0.30	-0.44	-0.59	-0.80	-1.30	-1.47	-1.37	-1.48	-1.07	-1.16
15	0.16	0.05	-0.08	-0.30	-0.80	-0.88	-1.25	-1.38	-1.37	-1.45	-1.07	-1.13
16	0.05	-0.08	0.14	-0.08	-0.69	-0.83	-1.16	-1.29	-1.29	-1.40	-1.03	-1.11
17	-0.07	-0.21	0.18	0.14	-0.63	-0.69	-0.76	-1.18	-1.19	-1.32	-1.03	-1.14
18	-0.16	-0.24	0.18	0.06	-0.41	-0.64	-0.64	-0.88	-1.08	-1.22	-1.10	-1.19
19	-0.14	-0.22	0.07	-0.15	-0.45	-0.55	-0.48	-0.64	-1.05	-1.14	-1.12	-1.22
20	-0.06	-0.14	-0.13	-0.27	-0.50	-0.64	-0.51	-0.55	-1.01	-1.13	-1.08	-1.22
21	-0.04	-0.10	-0.21	-0.32	-0.63	-0.69	-0.31	-0.53	-0.83	-1.02	-1.08	-1.26
22	-0.05	-0.20	-0.27	-0.37	-0.66	-0.73	-0.30	-0.53	-0.75	-0.83	-1.12	-1.22
23	-0.20	-0.37	-0.33	-0.44	-0.69	-0.76	-0.53	-0.70	-0.77	-0.92	-1.03	-1.12
24	-0.26	-0.37	-0.44	-0.48	-0.76	-0.91	-0.67	-0.78	-0.86	-0.96	-0.85	-1.03
25	-0.27	-0.36	-0.35	-0.48	-0.62	-0.82	-0.61	-0.77	-0.77	-0.89	-0.85	-0.96
26	-0.23	-0.30	-0.21	-0.36	-0.35	-0.72	-0.55	-0.71	-0.80	-0.86	-0.82	-0.91
27	-0.26	-0.32	-0.14	-0.22	-0.66	-0.76	-0.70	-0.87	-0.82	-0.87	-0.73	-0.82
28	-0.32	-0.43	-0.17	-0.24	-0.75	-0.89	-0.87	-1.04	-0.77	-0.88	-0.67	-0.83
29	-0.41	-0.50	-0.23	-0.36	-0.89	-0.95	-1.03	-1.09	---	---	-0.69	-0.83
30	-0.42	-0.55	-0.25	-0.32	-0.79	-0.90	-1.05	-1.15	---	---	-0.65	-0.77
31	-0.50	-0.56	---	---	-0.73	-0.80	-1.07	-1.13	---	---	-0.58	-0.72
Month	0.75	-0.56	0.18	-0.81	-0.15	-0.95	-0.30	-1.47	-0.62	-1.52	-0.57	-1.38

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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	-0.40	-0.65	-0.75	-0.94	-1.14	-1.25	-0.30	-0.34	---	---	0.34	0.24
2	-0.56	-0.69	-0.93	-1.03	-1.14	-1.30	-0.32	-0.40	-0.21	-0.34	0.25	0.16
3	-0.69	-0.89	-1.01	-1.06	-1.22	-1.36	-0.35	-0.41	-0.13	-0.21	0.19	0.13
4	-0.82	-0.87	-0.98	-1.09	-1.24	-1.43	-0.35	-0.46	-0.11	-0.16	0.23	0.12
5	-0.60	-0.82	-0.98	-1.06	-1.23	-1.34	-0.42	-0.51	-0.15	-0.31	0.27	0.20
6	-0.81	-1.02	-0.91	-1.03	-1.05	-1.23	-0.29	-0.52	-0.13	-0.31	0.30	0.21
7	-0.96	-1.01	-0.82	-0.92	-0.93	-1.07	0.08	-0.29	-0.12	-0.26	0.23	0.13
8	-0.97	-1.03	-0.70	-0.83	-0.86	-0.95	0.04	-0.02	-0.14	-0.24	0.16	0.10
9	-0.98	-1.04	-0.67	-0.77	-0.87	-0.98	-0.02	-0.09	-0.21	-0.30	0.12	0.02
10	-0.91	-1.01	-0.70	-0.78	-0.85	-0.99	-0.08	-0.19	-0.20	-0.29	0.04	-0.04
11	-0.81	-0.91	-0.67	-0.77	-0.73	-0.91	-0.16	-0.25	-0.17	-0.31	-0.04	-0.15
12	-0.64	-0.81	-0.56	-0.74	-0.47	-0.73	-0.24	-0.31	-0.18	-0.25	-0.09	-0.19
13	-0.52	-0.67	-0.58	-0.67	-0.28	-0.47	-0.27	-0.33	-0.19	-0.24	-0.05	-0.19
14	-0.53	-0.65	-0.43	-0.59	-0.20	-0.32	-0.25	-0.31	-0.19	-0.24	-0.12	-0.17
15	-0.48	-0.58	-0.16	-0.44	-0.18	-0.28	-0.23	-0.29	0.06	-0.20	-0.10	-0.14
16	-0.38	-0.50	-0.12	-0.26	-0.23	-0.33	-0.18	-0.25	0.00	-0.04	-0.08	-0.14
17	-0.33	-0.44	-0.06	-0.18	-0.24	-0.28	-0.04	-0.23	-0.02	-0.07	-0.12	-0.20
18	-0.38	-0.46	-0.09	-0.20	-0.25	-0.33	-0.11	-0.25	-0.03	-0.10	-0.17	-0.24
19	-0.44	-0.55	-0.20	-0.32	-0.33	-0.41	-0.13	-0.19	0.16	-0.08	-0.20	-0.25
20	-0.55	-0.71	-0.32	-0.44	-0.33	-0.46	-0.12	-0.18	0.12	0.04	-0.20	-0.29
21	-0.71	-0.88	-0.44	-0.56	-0.41	-0.48	-0.15	-0.20	0.06	0.01	-0.16	-0.24
22	-0.85	-0.98	-0.54	-0.68	-0.46	-0.50	-0.17	-0.29	0.03	-0.02	0.05	-0.20
23	-0.96	-1.02	-0.68	-0.79	-0.43	-0.48	-0.24	-0.37	0.09	-0.01	0.19	0.04
24	-0.99	-1.05	-0.77	-0.89	-0.27	-0.44	-0.35	-0.48	0.08	-0.01	0.26	0.11
25	-1.01	-1.09	-0.86	-0.94	-0.30	-0.42	-0.44	-0.53	0.04	-0.08	0.27	0.14
26	-0.89	-1.03	-0.78	-0.89	-0.29	-0.35	-0.36	-0.48	0.30	0.03	0.34	0.26
27	-0.71	-0.90	-0.72	-0.81	-0.31	-0.53	-0.31	-0.40	0.51	0.29	0.39	0.27
28	-0.64	-0.74	-0.74	-0.81	-0.33	-0.48	---	---	0.55	0.41	0.29	0.21
29	-0.63	-0.74	-0.78	-0.92	-0.22	-0.48	---	---	0.61	0.49	0.24	0.20
30	-0.66	-0.81	-0.87	-1.04	-0.26	-0.32	---	---	0.51	0.39	0.27	0.20
31	---	---	-1.00	-1.20	---	---	---	---	0.51	0.33	---	---
Month	-0.33	-1.09	-0.06	-1.20	-0.18	-1.43	---	---	---	---	0.39	-0.29

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

2011	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	34.9	29.0	11.1	8.01	-0.28	-0.02	-4.27	-5.32	-11.7	---	---	20.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2011, BY WATER YEAR (WY)

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Mean	28.2	24.1	18.4	10.3	3.03	-1.77	-1.60	-3.73	9.78	30.7	27.6	18.1

SUMMARY STATISTICS

	Calendar Year 2010	Water Years 2001 - 2011
Annual mean	19.6	12.5

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: May 1999 to current year.

SPECIFIC CONDUCTANCE: October 2010 to current year.

WATER TEMPERATURE: May 1999 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity and specific conductance record rated excellent. Water temperature record rated excellent with exception of Oct. 1 to Feb. 25 and Apr. 21 to Sept. 30; rated good Feb. 26 to Apr. 20. Elevation of the salinity and water temperature sensor is approximately -2.75 ft NAVD 88. Prior to September 15, 2010 salinity was computed directly from specific conductance using a conversion within the continuous water quality monitor. From September 15, 2010 to current, salinity is computed from corrected from specific conductance data using a rating in the NWIS database. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and water temperature records are available in files of the U.S. Geological Survey. Salinity and water temperature 15 minute data can also be accessed online at <http://sofia.usgs.gov/>. Daily values of salinity and water temperature are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY: Maximum recorded, 45.5 ppt May 28, June 1, 2005; minimum recorded, 0.2 ppt Oct. 26, 1999, Sept. 13, 14, 2003, Sept. 29, 30, 2010, and Oct. 1-8, 2010.

SPECIFIC CONDUCTANCE: Maximum recorded, 62,200 $\mu\text{S}/\text{cm}$ @ 25°C June 26, 27, 2011; minimum recorded, 450 $\mu\text{S}/\text{cm}$ @ 25°C Oct. 1-3, 2010.

WATER TEMPERATURE: Maximum recorded, 37.0°C June 30, 1999; minimum recorded, 5.8°C Jan. 11, 2010.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 42.0 ppt June 26, 27; minimum recorded, 0.2 ppt Oct. 1-8.

SPECIFIC CONDUCTANCE: Maximum recorded, 62,200 $\mu\text{S}/\text{cm}$ @ 25°C June 26, 27; minimum recorded, 450 $\mu\text{S}/\text{cm}$ @ 25°C Oct. 1-3.

WATER TEMPERATURE: Maximum recorded, 36.4 °C Aug. 4, 5; minimum recorded, 9.5 °C Dec. 15.

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SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
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	0.2	0.2	0.4	0.4	10.5	0.8	16.7	11.8	9.7	1.9	19.3	18.7
2	0.2	0.2	0.4	0.4	0.9	0.6	15.9	12.0	9.7	8.5	18.9	14.7
3	0.2	0.2	0.4	0.4	0.6	0.6	14.4	11.6	11.1	8.3	18.4	13.9
4	0.2	0.2	0.4	0.4	0.7	0.6	13.2	11.3	11.1	10.2	17.3	15.7
5	0.2	0.2	0.4	0.4	1.1	0.6	13.0	10.9	10.7	9.9	17.4	17.0
6	0.2	0.2	0.4	0.3	1.1	0.7	11.4	10.9	10.4	9.3	17.8	17.2
7	0.2	0.2	0.4	0.3	0.7	0.7	11.5	8.8	10.5	9.5	18.3	17.4
8	0.3	0.2	0.4	0.3	4.3	0.7	12.0	11.3	10.1	4.7	19.1	18.2
9	0.7	0.3	0.3	0.3	4.9	0.7	13.0	10.3	10.4	3.0	20.4	18.9
10	1.8	0.3	0.4	0.3	6.0	0.7	17.1	9.8	10.4	8.4	20.6	20.2
11	2.2	0.3	0.4	0.3	6.7	5.9	16.1	11.2	10.5	7.0	20.5	18.3
12	0.4	0.3	0.4	0.4	6.7	6.3	14.8	5.0	9.7	3.4	20.5	17.4
13	0.3	0.3	0.4	0.4	6.9	4.8	11.8	4.7	10.7	3.4	20.4	18.9
14	0.3	0.3	0.4	0.4	4.8	1.7	12.0	5.2	10.7	10.1	20.3	18.5
15	0.3	0.3	6.9	0.4	7.3	1.2	12.7	11.7	10.9	10.0	19.8	19.3
16	0.3	0.3	17.0	2.7	8.0	5.3	13.0	12.3	11.5	10.6	19.9	19.1
17	0.4	0.3	19.9	14.1	11.5	7.7	13.9	9.8	19.3	11.5	20.2	19.0
18	0.4	0.3	19.7	4.2	12.9	8.5	13.1	10.3	19.5	16.6	20.4	18.8
19	0.4	0.4	7.0	1.2	9.5	6.7	13.5	11.4	18.9	17.6	20.5	19.3
20	0.4	0.4	1.3	0.7	8.0	1.9	13.8	10.4	18.2	16.9	20.6	19.3
21	0.4	0.4	1.3	0.6	8.8	1.6	13.6	12.0	17.4	16.9	20.6	18.9
22	0.4	0.4	0.9	0.6	8.6	2.5	13.8	8.9	---	---	20.7	19.9
23	0.4	0.4	0.7	0.6	8.3	2.8	8.9	2.3	---	---	20.8	20.6
24	0.4	0.4	0.6	0.5	7.7	1.2	2.4	1.7	---	---	21.0	20.7
25	0.4	0.4	1.0	0.5	9.0	7.6	10.8	1.5	---	---	21.7	21.0
26	0.4	0.4	7.6	0.9	8.9	6.3	10.4	1.2	18.3	17.6	22.2	21.6
27	0.4	0.4	8.7	7.5	6.3	3.3	1.2	0.9	18.9	17.9	22.9	22.2
28	0.5	0.4	8.2	3.1	9.0	2.1	1.0	0.8	19.4	18.4	23.4	22.4
29	0.5	0.5	3.4	1.3	9.8	3.3	0.9	0.8	---	---	23.6	20.3
30	0.5	0.4	10.4	1.3	9.9	9.3	1.3	0.9	---	---	23.7	20.9
31	0.5	0.4	---	---	17.0	9.4	5.1	1.2	---	---	24.2	23.6
Month	2.2	0.2	19.9	0.3	17.0	0.6	17.1	0.8	---	---	24.2	13.9

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SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
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	25.0	24.1	24.1	23.4	36.7	36.1	37.0	26.8	---	---	29.1	23.8
2	25.0	23.5	25.8	23.9	36.9	36.3	37.8	27.3	23.6	22.9	28.3	14.9
3	23.6	22.0	28.4	25.0	37.4	36.7	36.4	26.8	23.9	23.3	25.0	19.1
4	23.9	21.5	29.1	26.9	37.6	37.1	36.7	28.5	35.8	23.9	24.6	15.5
5	24.8	23.9	29.6	27.6	38.3	37.5	30.3	27.2	36.2	23.4	17.0	14.3
6	24.8	21.7	29.9	29.4	38.2	37.8	37.2	27.4	32.7	22.5	16.4	13.5
7	24.8	22.4	30.1	29.8	38.5	37.8	36.8	31.4	32.2	25.6	18.0	13.0
8	24.7	23.1	30.3	29.9	38.6	38.0	32.8	24.1	29.7	17.9	17.4	3.8
9	24.9	23.7	30.4	30.0	39.1	38.5	24.1	17.0	24.3	13.9	8.2	2.1
10	25.1	24.5	30.8	30.4	39.4	38.8	17.0	13.1	24.4	12.0	2.2	1.5
11	25.3	25.0	31.1	30.7	39.7	39.3	13.1	11.1	21.5	9.8	1.5	1.3
12	25.5	25.2	31.5	31.0	39.9	39.7	11.1	9.7	22.6	9.2	1.8	1.3
13	25.9	25.4	32.0	31.2	39.9	39.5	14.7	8.3	24.0	7.7	9.3	1.1
14	26.6	25.8	32.4	32.0	39.9	39.6	27.5	8.8	21.7	6.4	1.1	1.0
15	27.0	26.5	33.1	32.2	40.2	39.7	29.3	20.4	21.1	6.6	8.6	1.0
16	27.6	26.8	34.1	33.1	40.5	40.0	29.4	27.3	21.2	14.7	12.1	1.3
17	28.8	27.3	34.7	34.1	40.8	40.4	27.9	26.7	21.0	5.4	1.6	1.0
18	29.2	28.8	35.1	34.6	40.8	40.4	27.2	22.9	21.2	4.5	1.4	1.0
19	29.6	29.1	35.3	34.9	41.1	40.7	26.9	21.6	20.3	7.2	1.5	1.0
20	29.5	28.6	34.9	33.3	41.1	40.8	26.5	25.3	20.6	6.4	2.1	1.3
21	28.7	28.3	33.5	32.9	41.3	40.8	25.8	11.7	19.5	2.6	11.3	1.6
22	28.5	28.1	33.3	32.9	41.7	41.2	15.5	8.1	19.5	2.4	13.2	10.5
23	28.6	28.2	33.5	33.1	41.9	41.4	8.2	6.4	19.1	2.7	10.5	9.5
24	28.7	28.0	34.1	33.5	41.7	41.4	6.5	4.8	18.2	1.4	9.8	7.7
25	28.8	28.4	34.4	34.0	41.8	41.7	5.0	4.1	14.1	1.2	8.9	5.3
26	28.7	28.3	34.7	34.3	42.0	41.8	23.1	4.3	14.1	12.6	9.6	8.2
27	29.1	28.5	35.0	34.6	42.0	41.7	23.5	21.7	14.8	12.8	11.1	8.7
28	29.7	29.0	35.3	35.0	41.8	38.6	---	---	18.3	14.8	12.2	9.8
29	30.3	29.7	35.4	35.1	38.6	31.8	---	---	19.3	17.6	12.6	2.1
30	30.2	23.6	35.8	35.3	31.8	27.5	---	---	31.7	18.2	11.5	1.9
31	---	---	36.3	35.7	---	---	---	---	29.0	22.4	---	---
Month	30.3	21.5	36.3	23.4	42.0	27.5	---	---	---	---	29.1	1.0

Water-Data Report 2011

251355080312800 JOE BAY 2E NEAR KEY LARGO, FL—Continued
**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
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	470	450	930	890	17,800	1,550	27,200	19,800	16,500	3,600	31,100	30,200
2	470	450	910	880	1,720	1,300	26,100	20,100	16,600	14,700	30,500	24,300
3	460	450	910	850	1,310	1,260	23,800	19,500	18,800	14,300	29,800	23,100
4	470	460	850	810	1,410	1,260	21,900	19,100	18,800	17,300	28,100	25,800
5	480	470	840	770	2,170	1,310	21,700	18,400	18,100	16,900	28,300	27,600
6	510	480	770	750	2,270	1,360	19,200	18,500	17,600	15,900	28,900	27,900
7	530	510	760	750	1,460	1,360	19,300	15,200	17,800	16,300	29,600	28,300
8	550	530	770	750	7,730	1,390	20,200	19,000	17,200	8,510	30,700	29,400
9	1,450	550	750	750	8,740	1,410	21,600	17,500	17,700	5,590	32,700	30,400
10	3,540	600	760	750	10,600	1,420	27,800	16,700	17,700	14,500	32,900	32,400
11	4,200	630	780	750	11,700	10,500	26,400	18,900	17,800	12,200	32,800	29,600
12	890	610	780	760	11,700	11,100	24,400	8,940	16,600	6,330	32,800	28,200
13	650	610	800	770	12,100	8,690	19,900	8,500	18,100	6,230	32,600	30,400
14	690	650	820	790	8,690	3,240	20,100	9,380	18,100	17,200	32,500	29,900
15	730	690	12,100	820	12,800	2,400	21,200	19,600	18,400	17,100	31,800	31,100
16	740	720	27,700	5,050	13,800	9,540	21,700	20,600	19,400	17,900	31,900	30,800
17	760	730	31,900	23,400	19,400	13,300	23,100	16,700	31,000	19,400	32,400	30,600
18	790	750	31,600	7,680	21,500	14,700	21,800	17,500	31,300	27,100	32,600	30,300
19	780	760	12,300	2,400	16,300	11,800	22,400	19,200	30,500	28,500	32,800	31,100
20	830	770	2,470	1,460	13,900	3,560	22,900	17,700	29,500	27,500	32,900	31,100
21	810	790	2,540	1,270	15,200	3,140	22,500	20,200	28,200	27,500	32,900	30,500
22	830	810	1,840	1,220	14,800	4,760	22,900	15,300	---	---	33,100	32,000
23	840	820	1,360	1,160	14,300	5,150	15,300	4,380	---	---	33,200	33,000
24	850	830	1,220	1,140	13,300	2,310	4,520	3,260	---	---	33,500	33,100
25	890	850	2,060	1,130	15,500	13,200	18,200	2,990	---	---	34,600	33,500
26	920	890	13,200	1,780	15,300	11,100	17,700	2,410	29,600	28,500	35,200	34,400
27	940	920	14,900	13,000	11,100	6,100	2,420	1,850	30,500	29,000	36,200	35,200
28	970	940	14,100	5,730	15,500	4,060	1,990	1,670	31,200	29,800	37,000	35,500
29	980	960	6,280	2,590	16,700	6,160	1,820	1,690	---	---	37,200	32,500
30	960	940	17,600	2,590	16,900	16,000	2,550	1,730	---	---	37,400	33,400
31	960	930	---	---	27,700	16,100	9,090	2,330	---	---	38,100	37,200
Month	4,200	450	31,900	750	27,700	1,260	27,800	1,670	---	---	38,100	23,100

251355080312800 JOE BAY 2E NEAR KEY LARGO, FL—Continued
**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
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	39,300	37,900	38,000	37,000	55,200	54,500	55,600	41,700	---	---	44,900	37,600
2	39,300	37,100	40,300	37,700	55,500	54,700	56,700	42,400	37,200	36,300	43,800	24,500
3	37,200	35,000	44,000	39,300	56,200	55,200	54,800	41,700	37,700	36,800	39,300	30,700
4	37,700	34,200	45,000	41,900	56,400	55,800	55,300	44,100	54,100	37,700	38,700	25,400
5	38,900	37,700	45,600	42,900	57,400	56,300	46,600	42,300	54,600	36,900	27,600	23,600
6	39,000	34,600	46,100	45,400	57,200	56,700	55,900	42,600	49,900	35,700	26,800	22,400
7	39,000	35,600	46,400	45,900	57,600	56,700	55,400	48,100	49,200	40,100	29,100	21,600
8	38,800	36,500	46,600	46,100	57,800	57,000	50,000	37,900	45,800	29,000	28,200	6,900
9	39,100	37,400	46,700	46,200	58,400	57,700	37,900	27,600	38,200	23,000	14,100	3,960
10	39,400	38,600	47,300	46,700	58,800	58,100	27,600	21,800	38,400	20,200	4,200	2,980
11	39,700	39,300	47,700	47,200	59,200	58,700	21,800	18,700	34,200	16,700	2,980	2,560
12	40,000	39,500	48,200	47,600	59,500	59,200	18,700	16,600	35,800	15,800	3,490	2,480
13	40,500	39,800	49,000	47,900	59,500	58,900	24,200	14,400	37,800	13,400	16,000	2,170
14	41,500	40,400	49,500	49,000	59,500	59,100	42,800	15,200	34,600	11,200	2,270	2,000
15	42,000	41,400	50,400	49,200	59,900	59,200	45,200	32,700	33,700	11,600	14,800	2,010
16	42,900	41,800	51,800	50,400	60,300	59,600	45,400	42,400	33,800	24,200	20,300	2,550
17	44,500	42,500	52,600	51,800	60,600	60,200	43,300	41,600	33,500	9,700	3,190	2,050
18	45,100	44,500	53,100	52,400	60,700	60,200	42,300	36,300	33,800	8,120	2,700	1,970
19	45,600	45,000	53,400	52,900	61,000	60,500	41,900	34,400	32,500	12,600	2,960	2,020
20	45,500	44,300	52,900	50,700	61,000	60,700	41,400	39,700	32,900	11,200	4,060	2,560
21	44,400	43,800	50,900	50,100	61,300	60,700	40,400	19,600	31,400	4,870	19,000	3,050
22	44,100	43,600	50,700	50,100	61,800	61,200	25,400	14,000	31,300	4,530	22,000	17,800
23	44,300	43,700	51,000	50,400	62,100	61,500	14,100	11,200	30,800	5,020	17,800	16,300
24	44,400	43,400	51,800	50,900	61,800	61,500	11,400	8,660	29,400	2,800	16,700	13,400
25	44,600	44,000	52,200	51,600	62,000	61,800	8,930	7,410	23,400	2,460	15,300	9,420
26	44,400	43,800	52,600	52,000	62,200	62,000	36,500	7,830	23,300	21,100	16,400	14,100
27	45,000	44,100	53,000	52,400	62,200	61,900	37,100	34,500	24,400	21,300	18,800	15,000
28	45,800	44,800	53,400	53,000	62,000	57,800	---	---	29,600	24,400	20,500	16,700
29	46,600	45,800	53,500	53,100	57,800	48,700	---	---	31,000	28,600	21,000	4,070
30	46,500	37,200	54,100	53,400	48,700	42,700	---	---	48,500	29,400	19,400	3,730
31	---	---	54,700	53,900	---	---	---	---	44,800	35,600	---	---
Month	46,600	34,200	54,700	37,000	62,200	42,700	---	---	---	---	44,900	1,970

251355080312800 JOE BAY 2E NEAR KEY LARGO, FL—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
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	29.2	26.1	29.4	26.6	26.4	23.4	21.1	18.6	23.2	21.7	28.0	24.6
2	30.2	26.8	28.3	26.3	23.4	19.5	22.0	20.5	24.7	22.4	26.8	24.3
3	30.7	27.5	27.0	25.6	19.9	16.7	23.8	21.9	26.4	23.9	25.2	22.1
4	29.9	27.2	26.2	24.9	20.3	16.8	23.8	22.9	26.3	24.4	23.7	20.0
5	27.9	25.7	25.6	21.7	20.6	18.1	24.4	23.3	26.5	24.2	23.6	19.7
6	27.4	24.5	21.7	18.1	20.6	17.0	24.2	22.2	26.3	24.6	26.2	22.1
7	25.8	22.9	19.0	15.5	17.0	13.6	22.4	19.5	27.2	25.1	26.6	23.4
8	26.9	22.9	18.6	17.6	15.8	12.4	20.3	18.2	26.6	24.2	27.1	23.6
9	27.0	24.3	21.5	17.4	15.9	13.2	21.3	18.6	24.8	21.1	26.5	23.6
10	28.1	25.5	23.2	19.6	15.7	11.9	22.1	20.3	25.7	23.7	26.2	24.0
11	29.0	25.9	24.0	21.2	17.9	15.7	24.9	22.1	25.3	24.6	24.4	20.8
12	27.8	26.2	23.9	21.4	19.4	17.0	24.8	18.2	24.8	19.2	22.8	19.2
13	29.1	25.7	23.3	21.2	18.7	15.6	18.2	14.0	19.2	15.6	24.0	21.2
14	28.2	27.1	23.8	21.4	15.6	11.6	18.1	15.2	20.3	18.1	24.1	21.3
15	28.4	25.7	25.8	22.3	14.1	9.5	19.8	17.6	20.8	19.3	24.6	21.6
16	27.8	24.4	26.6	23.0	15.9	13.2	20.7	18.2	22.0	19.1	25.8	21.9
17	27.7	24.2	28.0	25.6	17.8	14.0	20.6	19.8	24.1	20.2	26.6	22.6
18	27.5	24.9	27.6	26.3	19.0	17.4	22.4	20.1	25.2	22.2	26.8	23.1
19	28.7	25.2	26.4	22.9	21.0	18.3	25.0	22.1	25.9	23.3	26.4	22.0
20	28.2	26.3	24.4	21.9	20.5	17.4	25.8	24.0	25.3	23.7	26.1	22.0
21	28.9	26.1	25.4	22.7	20.0	16.8	25.7	23.8	26.1	22.6	26.8	23.1
22	28.8	26.3	24.8	23.3	21.3	18.2	24.8	20.3	---	---	26.1	22.4
23	27.4	25.8	25.5	22.9	20.9	19.1	20.3	15.4	---	---	27.4	23.1
24	29.0	25.5	26.0	23.5	20.3	17.3	19.8	17.0	---	---	27.9	23.7
25	29.1	26.6	25.4	24.0	21.8	19.4	22.2	19.5	---	---	28.2	23.7
26	29.0	27.0	25.5	24.4	20.7	17.3	22.8	21.1	26.4	24.0	28.8	25.0
27	29.1	27.3	26.2	24.6	17.3	15.0	21.8	18.8	28.0	24.9	29.1	24.8
28	30.4	27.6	26.5	25.1	15.6	11.5	19.6	16.3	27.5	24.7	30.1	26.0
29	30.2	27.7	25.9	24.4	15.1	13.0	18.6	14.9	---	---	29.8	25.3
30	29.3	27.1	26.3	24.3	16.8	14.8	20.1	16.3	---	---	30.0	26.8
31	28.7	26.8	---	---	19.5	16.7	22.2	18.8	---	---	29.6	27.1
Month	30.7	22.9	29.4	15.5	26.4	9.5	25.8	14.0	---	---	30.1	19.2

251355080312800 JOE BAY 2E NEAR KEY LARGO, FL—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
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	28.4	26.3	30.5	25.6	31.4	26.8	30.8	28.3	---	---	33.0	32.0
2	28.7	25.5	29.9	26.4	31.1	26.7	30.7	29.1	34.1	31.4	32.9	32.0
3	30.5	27.0	29.9	26.3	31.1	26.6	31.2	28.4	34.1	31.5	33.4	31.8
4	29.3	26.2	30.4	27.3	30.8	26.7	31.5	29.8	36.4	31.7	33.2	30.6
5	29.0	25.7	30.3	27.5	31.6	26.6	33.0	29.3	36.4	34.0	32.6	30.4
6	27.8	25.3	30.0	27.0	30.1	26.9	31.6	29.9	35.2	31.9	33.3	30.5
7	28.6	25.8	31.2	27.0	30.7	27.0	30.3	27.6	34.2	32.7	33.8	32.3
8	29.7	26.3	31.4	28.0	29.8	26.7	30.4	28.4	33.0	29.9	33.8	31.7
9	29.9	26.4	31.6	27.6	28.8	26.4	32.5	29.1	31.4	28.9	34.0	31.1
10	30.5	26.5	30.9	27.4	29.7	26.2	34.8	29.3	30.9	29.6	34.2	30.9
11	30.7	26.8	31.6	27.3	30.6	26.8	33.8	30.0	30.1	28.6	34.1	30.3
12	31.0	27.3	29.7	28.1	31.8	28.7	34.6	30.3	31.0	29.2	32.1	30.1
13	28.8	27.0	30.6	27.7	33.0	29.5	35.1	30.8	33.6	29.8	32.9	29.3
14	28.4	24.4	30.9	27.8	33.3	30.3	35.3	31.2	34.2	30.4	31.4	28.6
15	29.8	25.8	29.3	27.2	32.7	30.1	36.0	34.3	33.0	31.6	33.0	28.1
16	30.4	27.2	28.5	26.0	32.3	29.6	36.2	35.0	32.7	31.2	33.3	30.9
17	31.0	28.2	28.4	26.0	33.2	29.8	35.1	33.0	33.8	32.1	32.6	28.7
18	30.2	27.4	30.0	26.1	33.5	30.3	34.3	33.0	33.4	30.6	31.8	28.7
19	30.1	27.7	30.7	27.5	33.1	30.7	34.4	32.4	33.1	31.2	32.5	28.8
20	29.7	26.6	32.1	28.7	32.0	30.5	34.4	32.5	31.9	29.9	32.2	29.3
21	29.7	25.6	32.7	28.8	32.1	30.2	35.3	33.1	33.1	29.8	31.2	29.2
22	29.2	25.5	33.1	28.8	32.1	29.7	34.5	31.7	33.5	30.8	30.6	28.8
23	29.0	25.5	31.4	28.0	33.6	29.6	34.5	30.6	33.1	31.2	31.5	28.0
24	29.2	25.6	31.3	27.1	32.8	30.4	35.0	30.3	33.0	30.7	31.2	29.6
25	30.5	25.9	31.1	27.6	33.0	29.8	35.0	30.8	32.2	28.7	31.0	29.6
26	31.6	27.0	30.4	27.4	31.9	29.8	33.4	30.6	31.4	29.1	29.8	28.3
27	31.9	27.8	30.4	27.8	31.2	29.5	33.3	31.9	31.5	29.3	30.1	27.9
28	31.8	28.1	30.8	28.1	31.0	29.1	---	---	30.9	29.7	31.6	30.0
29	32.4	28.4	30.9	27.8	30.2	28.2	---	---	30.8	29.2	31.6	30.9
30	30.9	27.4	30.6	27.6	30.1	26.8	---	---	32.4	30.6	31.8	30.8
31	---	---	30.9	27.4	---	---	---	---	32.4	30.7	---	---
Month	32.4	24.4	33.1	25.6	33.6	26.2	---	---	---	---	34.2	27.9