

Water-Data Report 2011

022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, FL

Southern Florida Basin
Caloosahatchee Subbasin

LOCATION.--Lat 26°43'47.8", long 81°42'06.7" referenced to North American Datum of 1983, Lee County, FL, Hydrologic Unit 03090205, Olga Quadrangle, located on the west bank, approximately 200 yards south of S.R. 78, 900 yards from the mouth, 0.7 mi northeast of the town of Olga, 1 mi west of Franklin Locks (S-79).

DRAINAGE AREA.--67.4 mi²,

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR-US-2010 site 022929176: 2008, 2009, (gage-height daily values and extremes revised to NAVD88 datum).

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

REMARKS.--Records fair, except for days 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 (ebb tide) is generally to the southwest direction, 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/>. 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), 1,600 ft³/s Aug. 19, 2008; maximum negative (unfiltered), 314 ft³/s June 24, 2009.

GAGE HEIGHT: Maximum gage height, 2.74 ft Aug. 23, 2008; minimum, -2.89 ft Jan. 21, 2008. See REVISED RECORDS.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge (unfiltered), 532 ft³/s Sept. 6; maximum negative (unfiltered), 185 ft³/s Aug. 12.

GAGE HEIGHT: Maximum gage height, 2.11 ft Sept. 6; minimum, -2.57 ft Jan. 13.

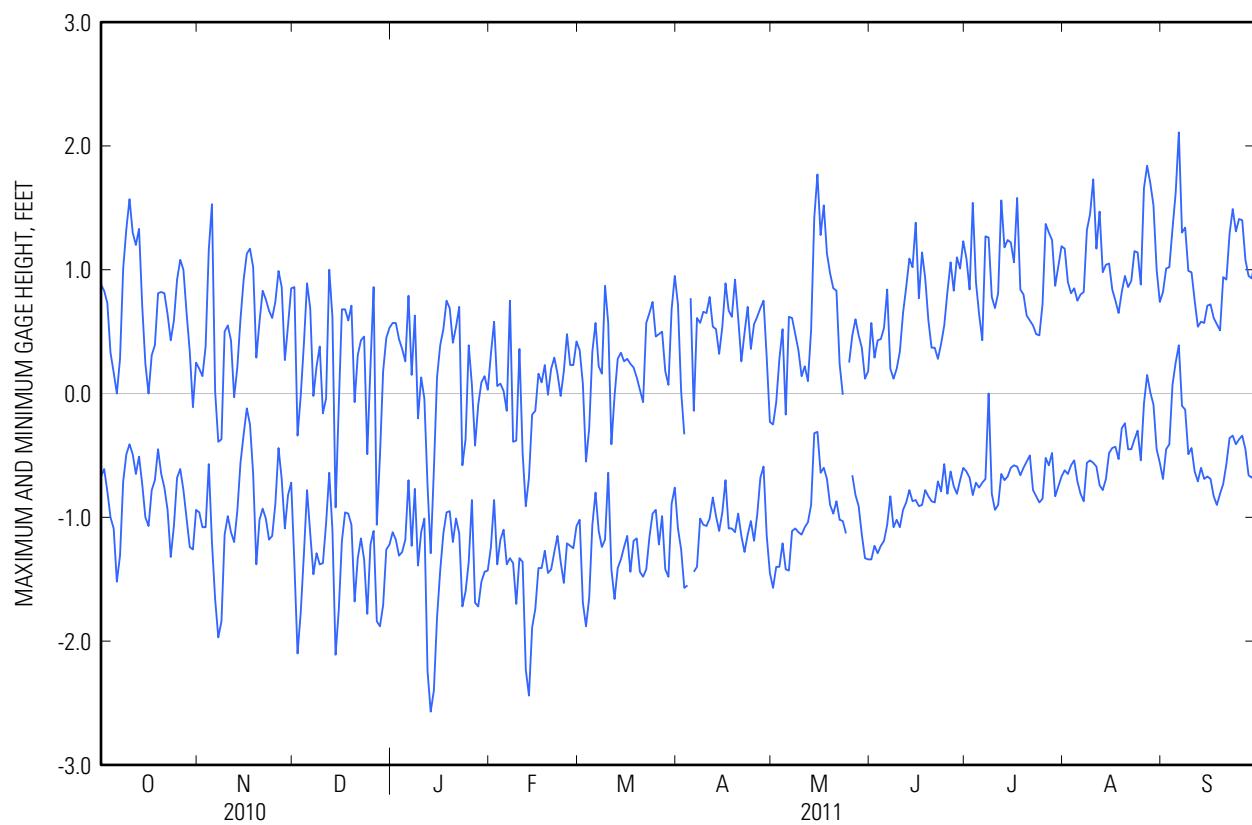
022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, FL—Continued
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	0.88	-0.67	0.20	-0.96	0.86	-1.37	0.57	-1.12	0.32	-1.24	0.35	-1.02
2	0.83	-0.61	0.14	-1.08	-0.34	-2.10	0.57	-1.18	0.58	-0.86	0.08	-1.69
3	0.73	-0.79	0.38	-1.08	-0.02	-1.77	0.44	-1.31	0.06	-1.38	-0.55	-1.88
4	0.33	-1.00	1.16	-0.57	0.40	-1.30	0.36	-1.28	0.08	-1.18	-0.28	-1.65
5	0.17	-1.09	1.53	-1.20	0.89	-0.78	0.26	-1.18	0.02	-1.10	0.34	-1.06
6	0.00	-1.52	0.02	-1.66	0.69	-1.13	0.79	-0.70	-0.14	-1.38	0.57	-0.80
7	0.28	-1.31	-0.39	-1.97	-0.02	-1.46	0.15	-1.23	0.75	-1.33	0.22	-1.11
8	1.01	-0.71	-0.37	-1.84	0.22	-1.29	0.63	-0.77	-0.39	-1.37	0.16	-1.24
9	1.33	-0.49	0.50	-1.14	0.38	-1.38	-0.20	-1.39	-0.38	-1.70	0.87	-1.18
10	1.57	-0.41	0.55	-0.99	-0.16	-1.37	0.13	-1.12	0.36	-1.33	0.57	-0.64
11	1.30	-0.49	0.43	-1.12	-0.04	-1.05	-0.04	-1.01	-0.48	-1.36	-0.41	-1.42
12	1.20	-0.65	-0.03	-1.20	1.00	-0.64	-0.74	-2.24	-0.91	-2.23	-0.02	-1.66
13	1.33	-0.51	0.21	-0.95	0.62	-1.10	-1.29	-2.57	-0.68	-2.44	0.28	-1.41
14	0.71	-0.73	0.60	-0.56	-0.92	-2.11	-0.62	-2.40	-0.17	-1.89	0.33	-1.34
15	0.24	-1.00	0.92	-0.33	-0.10	-1.75	0.13	-1.81	-0.14	-1.74	0.26	-1.24
16	0.00	-1.07	1.13	-0.12	0.68	-1.19	0.39	-1.43	0.16	-1.41	0.28	-1.15
17	0.31	-0.78	1.17	-0.25	0.68	-0.96	0.52	-1.13	0.09	-1.41	0.24	-1.44
18	0.39	-0.70	1.02	-0.65	0.59	-0.97	0.75	-0.96	0.23	-1.27	0.21	-1.19
19	0.81	-0.45	0.29	-1.38	0.71	-1.06	0.69	-0.95	-0.01	-1.45	0.13	-1.17
20	0.82	-0.65	0.58	-1.02	-0.07	-1.68	0.41	-1.20	0.20	-1.42	0.03	-1.44
21	0.81	-0.76	0.83	-0.93	0.31	-1.33	0.54	-1.01	0.29	-1.28	-0.07	-1.48
22	0.64	-0.94	0.76	-1.01	0.43	-1.17	0.70	-1.13	0.16	-1.15	0.57	-1.42
23	0.43	-1.32	0.67	-1.18	0.46	-1.34	-0.58	-1.72	-0.02	-1.36	0.65	-1.16
24	0.59	-1.07	0.61	-1.15	-0.49	-1.78	-0.37	-1.60	0.18	-1.53	0.74	-0.97
25	0.92	-0.68	0.74	-0.89	0.22	-1.22	0.39	-1.36	0.48	-1.21	0.46	-0.94
26	1.08	-0.61	0.99	-0.44	0.86	-1.11	0.07	-0.86	0.23	-1.23	0.48	-1.22
27	1.00	-0.78	0.86	-0.69	-1.06	-1.84	-0.42	-1.69	0.23	-1.25	0.50	-0.99
28	0.65	-1.01	0.27	-1.09	-0.50	-1.88	-0.09	-1.72	0.42	-1.07	0.18	-1.42
29	0.34	-1.24	0.55	-0.82	0.18	-1.71	0.09	-1.52	---	---	0.07	-1.48
30	-0.11	-1.26	0.85	-0.72	0.45	-1.26	0.14	-1.44	---	---	0.68	-0.89
31	0.25	-0.94	---	---	0.53	-1.22	0.03	-1.43	---	---	0.95	-0.76
Month	1.57	-1.52	1.53	-1.97	1.00	-2.11	0.79	-2.57	0.75	-2.44	0.95	-1.88

022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, 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	0.72	-1.09	-0.25	-1.57	0.57	-1.34	1.09	-0.63	1.17	-0.62	0.82	-0.69
2	0.02	-1.26	-0.07	-1.40	0.29	-1.23	0.84	-0.68	0.90	-0.65	1.01	-0.45
3	-0.33	-1.57	0.28	-1.40	0.43	-1.29	1.54	-0.82	0.81	-0.58	1.02	-0.41
4	---	-1.55	0.52	-1.21	0.44	-1.23	0.90	-0.72	0.85	-0.54	1.33	0.07
5	0.77	---	-0.17	-1.42	0.53	-1.19	0.64	-0.76	0.75	-0.71	1.62	0.25
6	-0.14	-1.44	0.62	-1.43	0.84	-1.06	0.43	-0.72	0.80	-0.81	2.11	0.39
7	0.61	-1.40	0.61	-1.11	0.20	-0.83	1.27	-0.69	0.82	-0.87	1.30	-0.10
8	0.57	-1.01	0.48	-1.09	0.12	-1.08	1.26	0.00	1.32	-0.56	1.34	-0.13
9	0.66	-1.06	0.35	-1.12	0.20	-1.02	0.78	-0.81	1.45	-0.54	0.99	-0.49
10	0.65	-1.07	0.14	-1.14	0.34	-1.08	0.69	-0.94	1.73	-0.56	0.98	-0.44
11	0.78	-1.01	0.22	-1.08	0.65	-0.94	0.81	-0.90	1.17	-0.59	0.75	-0.63
12	0.54	-0.84	0.10	-1.04	0.86	-0.88	1.56	-0.65	1.47	-0.74	0.54	-0.71
13	0.52	-0.99	0.51	-0.90	1.09	-0.78	1.18	-0.70	0.98	-0.78	0.58	-0.60
14	0.32	-1.11	1.42	-0.32	1.02	-0.87	1.24	-0.67	1.04	-0.69	0.57	-0.69
15	0.54	-0.96	1.77	-0.31	1.38	-0.86	1.22	-0.60	1.05	-0.48	0.71	-0.67
16	0.89	-0.70	1.28	-0.64	0.77	-0.91	1.06	-0.58	0.84	-0.44	0.72	-0.69
17	0.67	-1.09	1.52	-0.60	1.14	-0.90	1.58	-0.59	0.75	-0.43	0.61	-0.83
18	0.62	-1.09	1.13	-0.69	0.93	-0.78	0.84	-0.66	0.65	-0.53	0.56	-0.90
19	0.92	-1.12	0.97	-0.90	0.59	-0.83	0.80	-0.60	0.82	-0.28	0.51	-0.81
20	0.61	-0.97	0.85	-0.97	0.37	-0.87	0.63	-0.55	0.95	-0.24	0.94	-0.73
21	0.26	-1.15	0.83	-0.87	0.37	-0.88	0.59	-0.50	0.86	-0.45	0.92	-0.57
22	0.49	-1.28	0.24	-1.02	0.28	-0.71	0.55	-0.78	0.91	-0.45	1.29	-0.36
23	0.70	-1.14	-0.01	-1.03	0.40	-0.79	0.48	-0.83	1.15	-0.37	1.49	-0.34
24	0.36	-1.03	---	-1.13	0.55	-0.57	0.47	-0.88	1.14	-0.30	1.31	-0.41
25	0.56	-1.19	0.25	---	0.82	-0.81	0.72	-0.85	0.88	-0.54	1.41	-0.37
26	0.62	-0.98	0.47	-0.66	1.06	-0.63	1.37	-0.52	1.66	-0.08	1.40	-0.34
27	0.69	-0.68	0.60	-0.82	0.83	-0.75	1.30	-0.58	1.84	0.15	1.08	-0.45
28	0.75	-0.59	0.47	-0.91	1.10	-0.81	1.24	-0.48	1.70	0.01	0.95	-0.66
29	0.29	-1.15	0.37	-1.14	1.01	-0.70	0.87	-0.83	1.52	-0.09	0.93	-0.68
30	-0.23	-1.45	0.12	-1.33	1.23	-0.60	1.03	-0.75	1.00	-0.45	1.07	-0.65
31	---	---	0.18	-1.34	---	---	1.19	-0.67	0.74	-0.56	---	---
Month	---	---	---	---	1.38	-1.34	1.58	-0.94	1.84	-0.87	2.11	-0.90

022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, FL—Continued



022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, FL—Continued

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

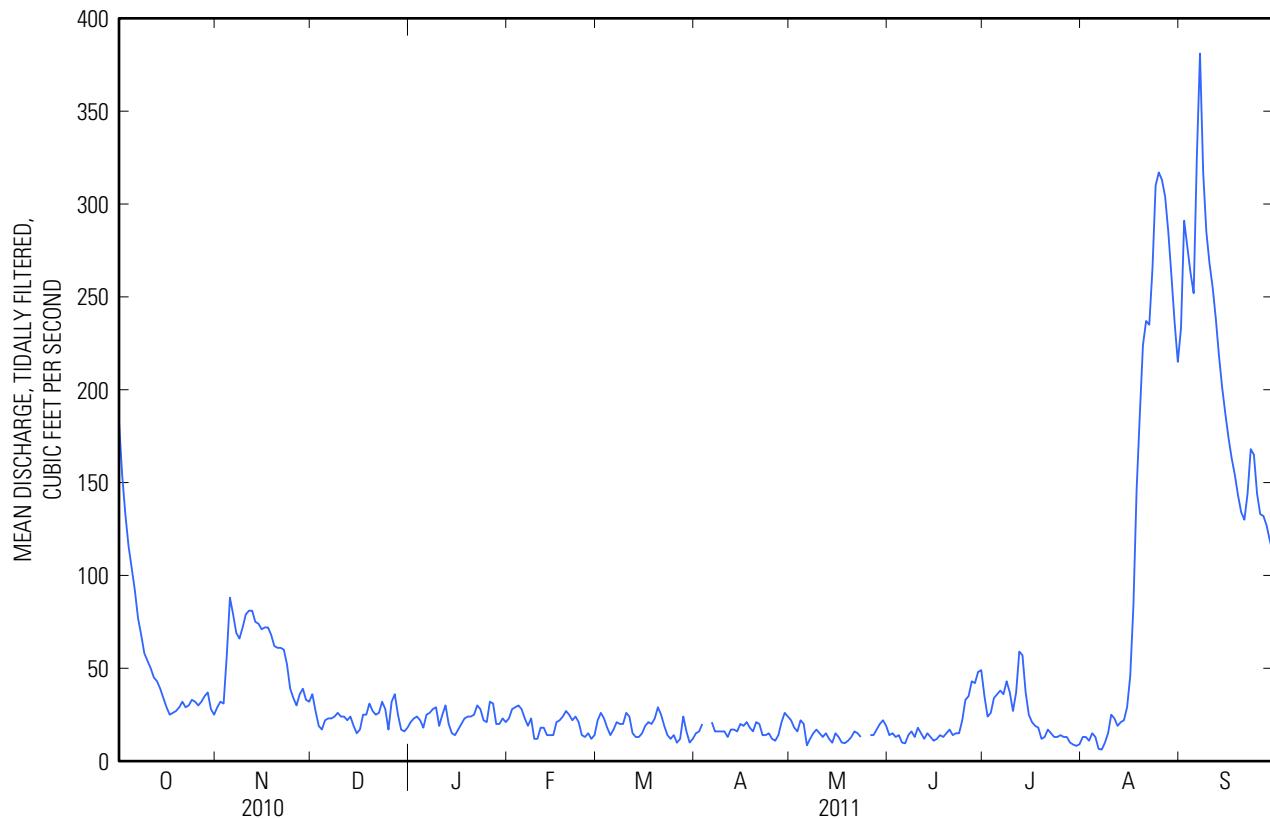
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	183	29	36	21	23	22	15	22	14	35	13	233
2	154	32	27	23	28	26	16	18	15	24	13	291
3	133	31	19	24	29	23	e20	16	13	26	11	277
4	116	57	17	22	30	18	---	22	14	34	15	263
5	104	88	22	18	28	14	---	20	10	36	13	252
6	92	79	23	25	23	17	e21	8.5	9.6	38	6.6	325
7	77	69	23	26	19	21	16	12	14	36	6.2	381
8	68	66	24	28	23	20	16	15	16	43	9.9	317
9	58	72	26	29	12	20	16	17	13	37	15	285
10	54	79	24	19	12	26	16	15	18	27	25	268
11	50	81	24	e25	18	24	13	13	15	37	23	255
12	45	81	22	e30	18	15	17	15	12	59	19	238
13	43	75	24	e20	14	13	17	12	15	57	21	218
14	39	74	19	e15	14	13	16	9.9	13	37	22	201
15	34	71	15	e14	14	15	20	15	11	25	29	187
16	29	72	17	17	21	19	19	13	12	21	46	174
17	25	72	25	20	22	21	21	10	14	19	84	163
18	26	68	25	23	24	20	18	9.7	13	18	146	154
19	27	62	31	24	27	23	16	11	15	12	186	143
20	29	61	27	24	25	29	21	13	17	13	224	134
21	32	61	25	25	22	25	20	16	14	17	237	130
22	29	60	26	30	24	19	14	15	15	15	235	144
23	30	52	32	28	21	14	14	e13	15	13	265	168
24	33	39	28	22	14	12	15	---	22	13	310	165
25	32	34	17	21	13	14	12	---	33	14	317	144
26	30	30	32	32	15	9.9	11	e14	35	13	313	133
27	32	36	36	31	12	12	14	14	43	13	304	132
28	35	39	25	20	14	24	21	17	42	10	285	127
29	37	33	17	20	---	16	26	20	48	8.9	261	119
30	28	32	16	23	---	10	24	22	49	8.2	236	112
31	25	---	18	21	---	12	---	19	---	9.1	215	---
Total	1,729	1,735	742	720	559	566.9	---	---	589.6	768.2	3,905.7	6,133
Mean	55.8	57.8	23.9	23.2	20.0	18.3	---	---	19.7	24.8	126	204
Max	183	88	36	32	30	29	---	---	49	59	317	381
Min	25	29	15	14	12	9.9	---	---	9.6	8.2	6.2	112

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	55.7	31.7	19.4	16.4	14.4	17.4	23.8	24.9	15.7	60.4	226	187
Max	70.6	57.8	23.9	23.2	20.0	25.4	48.7	59.9	21.9	121	471	230
(WY)	(2009)	(2011)	(2011)	(2011)	(2011)	(2010)	(2010)	(2010)	(2010)	(2008)	(2008)	(2010)
Min	40.6	17.1	15.7	12.6	11.0	11.2	6.14	5.42	8.02	24.8	90.8	133
(WY)	(2010)	(2010)	(2008)	(2009)	(2010)	(2009)	(2009)	(2009)	(2009)	(2011)	(2010)	(2009)

022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, FL—Continued**SUMMARY STATISTICS**

Water Years 2008 - 2011		
Annual mean	48.4	
Highest annual mean	48.4	2009
Lowest annual mean	48.4	2009
Highest daily mean	1,170	Aug 23, 2008
Lowest daily mean	-2.6	Mar 8, 2010
Annual seven-day minimum	1.4	Mar 4, 2010
10 percent exceeds	135	
50 percent exceeds	16	
90 percent exceeds	4.0	



022929176 TELEGRAPH CREEK AT STATE HIGHWAY AT OLGA, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP, BOTTOM): November 2007 to September 2010. Discontinued.

WATER TEMPERATURE (TOP, BOTTOM): November 2007 to September 2010. Discontinued.

REMARKS.--Salinity and water temperature sensors located at surface (TOP) and -3.55 ft NAVD88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Salinity and water temperature 15 minute data are available in files of the U.S. Geological Survey. 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 (TOP): Maximum recorded, 20.0 ppt, June 8, 2008; minimum recorded, 0.0 ppt, July 10, 2008, Sept. 30, 2008, Aug. 13, 14, 21, 22, 2009, Sept. 16, 2009, Sept. 27-29, 2010.

SALINITY (BOTTOM): Maximum recorded, 21.8 ppt, June 7, 2008; minimum recorded, 0.0 ppt, several days during Aug., 2008, Sept. 1-5, 2008, Aug. 13, 14, 2009, Sept. 16, 2009, Sept. 27-30, 2010.

WATER TEMPERATURE (TOP): Maximum recorded, 34.2 °C July 10, 2010; minimum recorded, 9.5 °C Jan. 11, 2010.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.0 °C July 29, 2010; minimum recorded, 9.9 °C Jan. 11, 2010.