

Water-Data Report 2011

251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°11'15.05", long 80°23'13.42" referenced to North American Datum of 1927, in T.60 S., R.39 E., Monroe County, FL, Hydrologic Unit 03090202, located on the left bank, approximately 0.2 mi north of Jewfish Creek at U.S. 1, near Key Largo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1998 to September 2011. Discontinued.

REVISED RECORDS.--WDR-US-2006 site 251105080231800: 2001, 2003, 2004, 2005, (unit value discharges only). All updated unit values are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

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

REMARKS.--Records fair. During periods of missing record, values may be higher or lower than the listed extremes. 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 is flow towards Blackwater Sound and negative discharge is flow towards Barnes Sound. 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 are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge (unfiltered), 7,530 ft³/s Oct. 31, 2007; maximum negative (unfiltered), 9,330 ft³/s Aug. 26, 2005.

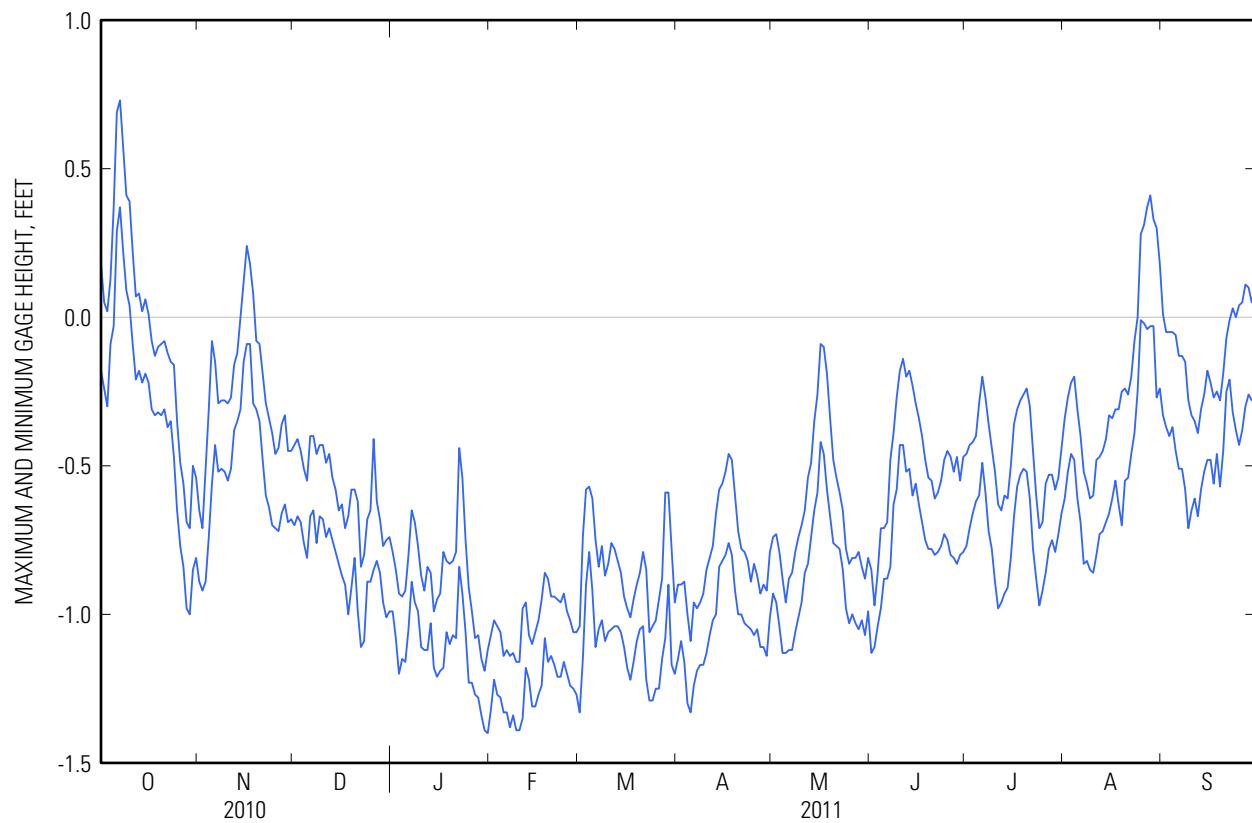
GAGE HEIGHT: Maximum gage height, 1.39 ft Nov. 5, 2001; minimum, -1.57 ft Feb. 15, 2001 and Feb. 11, 2003.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge (unfiltered), 6,420 ft³/s Oct. 6; maximum negative (unfiltered), 4,400 ft³/s May 17.

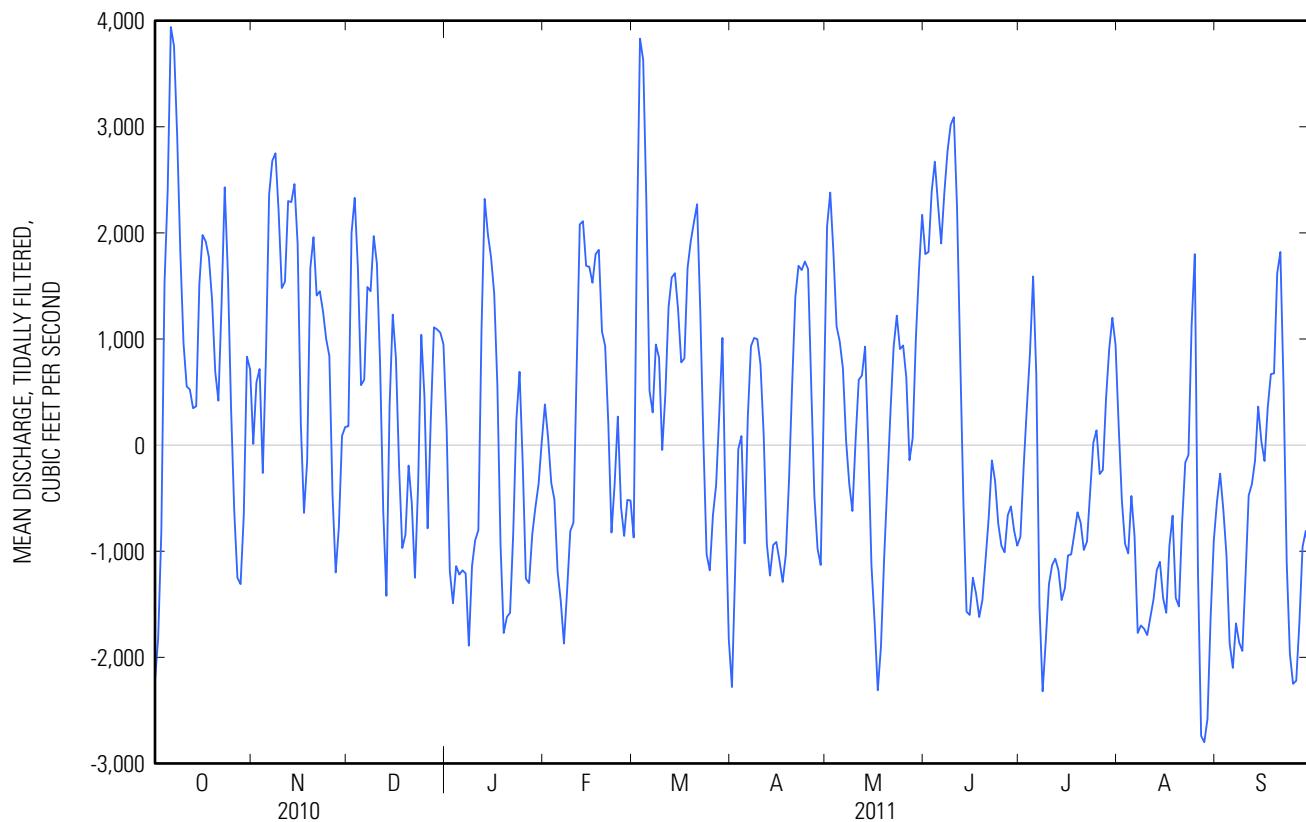
GAGE HEIGHT: Maximum gage height, 0.73 ft Oct. 7; minimum, -1.40 ft Jan. 31.

251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL—Continued



SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011	Water Years 1998 - 2011	
Annual total	66,693.6	43,839.7		
Annual mean	183	120	157	
Highest annual mean			316	2008
Lowest annual mean			74.0	2010
Highest daily mean	4,160	Apr 14	3,940	Oct 6
Lowest daily mean	-3,120	Aug 11	-2,800	Aug 28
Annual seven-day minimum	-2,210	Aug 9	-1,770	Aug 26
10 percent exceeds	2,190		1,960	2,230
50 percent exceeds	78		31	46
90 percent exceeds	-1,710		-1,540	-1,810



251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): February 1998 to May 2007.

SALINITY (BOTTOM): February 1998 to September 2011. Discontinued.

SPECIFIC CONDUCTANCE (BOTTOM): October 2010 September 2011. Discontinued.

WATER TEMPERATURE (TOP): February 1998 to May 2007.

WATER TEMPERATURE (BOTTOM): February 1998 to September 2011. Discontinued.

INSTRUMENTATION.--Water-quality monitor with bottom sensors.

REMARKS.--Salinity (BOTTOM) rated excellent for the entire year. Water temperature (BOTTOM) record is rated excellent for the entire year. Prior to

September 16, 2010 salinity was computed directly from specific conductance using a conversion within the continuous water quality monitor. From September 16, 2010 to September 2011, salinity is computed from corrected 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. The continuous water quality monitor near the surface was permanently removed on May 30, 2007. Salinity and temperature sensor located at -9.33 ft NAVD 88. Salinity and temperature records are available in files of the U.S. Geological Survey. Salinity and temperature 15 minute data can also be accessed online at <http://sofia.usgs.gov/>. Daily values are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 42.6 ppt June 8, 2005; minimum recorded, 8.4 ppt Oct. 21, 1999.

SALINITY (BOTTOM): Maximum recorded, 42.8 ppt June 6-8, 2005; minimum recorded, 9.2 ppt Oct. 21, 1999.

SPECIFIC CONDUCTANCE (BOTTOM): Maximum recorded, 62,000 µS/cm @ 25°C Aug. 12, 14, 2011; minimum recorded, 28,000 µS/cm @ 25°C Oct. 4, 2010.

WATER TEMPERATURE (TOP): Maximum recorded, 34.3°C Aug. 14, 1998; minimum recorded, 13.6°C Jan. 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.4°C June 17, 2010; minimum recorded, 8.9°C Jan. 11, 2010.

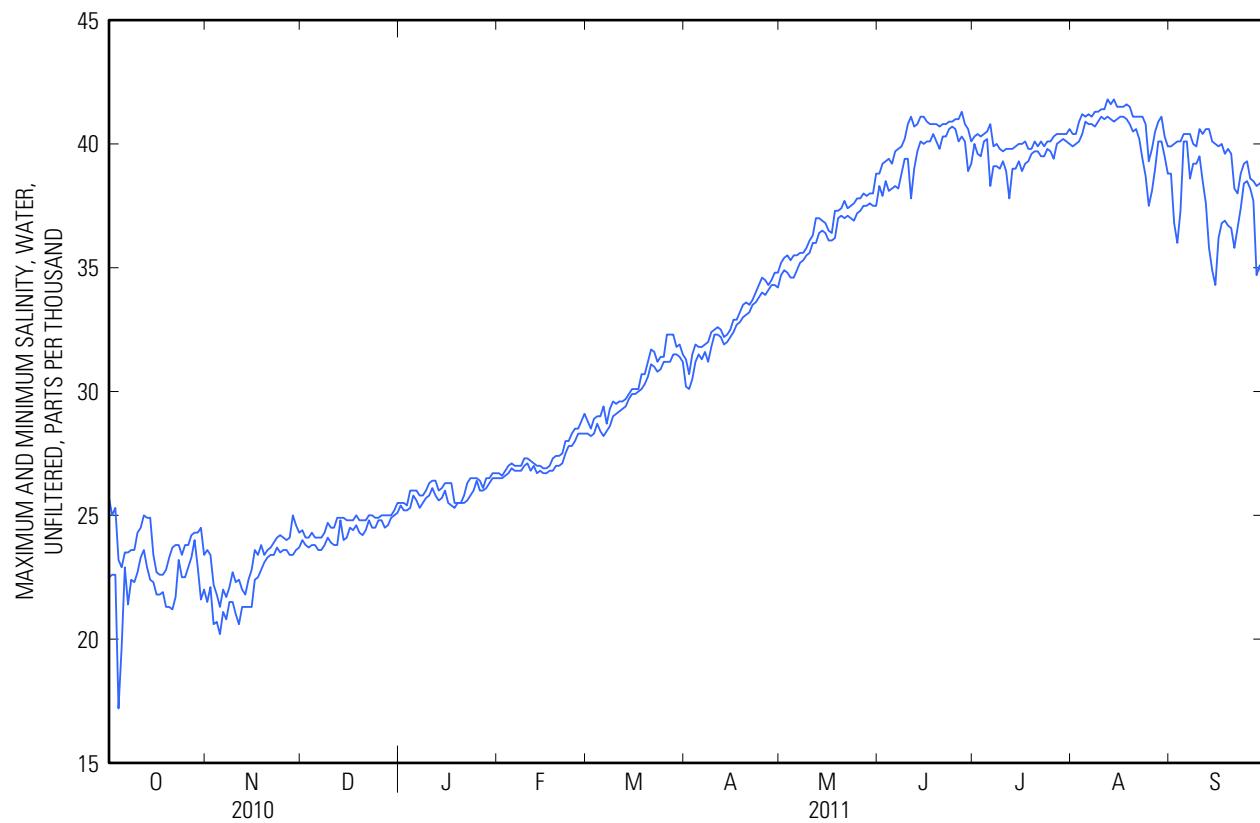
EXTREMES FOR CURRENT YEAR.--

SALINITY (BOTTOM): Maximum recorded, 41.8 ppt Aug. 12, 14; minimum recorded, 17.2 ppt Oct. 4.

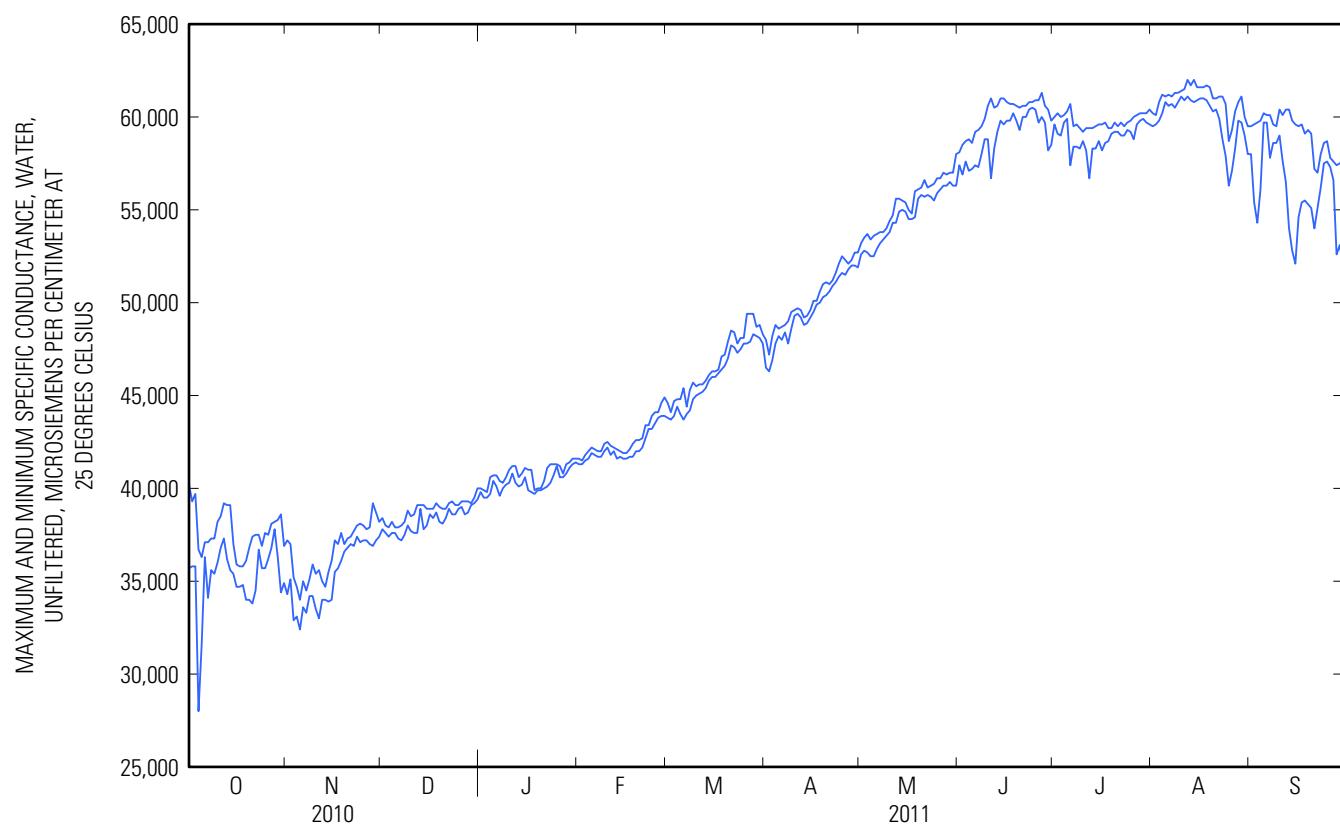
SPECIFIC CONDUCTANCE (BOTTOM): Maximum recorded, 62,000 µS/cm @ 25°C Aug. 12, 14; minimum recorded, 28,000 µS/cm @ 25°C Oct. 4.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.7°C July 16; minimum recorded, 12.2°C Dec. 15.

251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL—Continued



251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL—Continued



251105080231800 JEWFISH CREEK AT U.S. 1, KEY LARGO, FL—Continued

