

Water-Data Report 2007

**251433080265000 WEST HIGHWAY CREEK, FL**

Southern Florida Basin  
Everglades Subbasin

LOCATION.--Lat 25°14'33", long 80°26'50" referenced to North American Datum of 1927, Miami-Dade County, FL, Hydrologic Unit 03090202, located approximately 150 ft upstream of the mouth on the right bank, approximately 6 mi northwest of Key Largo.

DRAINAGE AREA.--Indeterminate.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1996 to current year.

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

REMARKS.--Records good. Daily values are not published for this site. Discharge and gage height 15 minute data, are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 826 ft<sup>3</sup>/s Aug. 6, 2007; maximum negative, -1,160 ft<sup>3</sup>/s Oct. 24, 2005.

GAGE HEIGHT: Maximum gage height, 2.59 ft Oct. 24, 2005; minimum, -1.64 ft Mar. 30, 1996.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 826 ft<sup>3</sup>/s Aug. 6; maximum negative, -388 ft<sup>3</sup>/s June 16.

GAGE HEIGHT: Maximum gage height, 0.44 ft June 16; minimum, -1.23 ft Feb. 8.

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**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--

SALINITY (TOP, BOTTOM): February 1996 to current year.

WATER TEMPERATURE (TOP, BOTTOM): February 1996 to current year.

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

REMARKS.--Salinity (TOP) record rated excellent. Salinity (BOTTOM) record rated excellent. Temperature (TOP) record rated excellent. Temperature (BOTTOM) record excellent except for the following periods: Oct. 1-16 rated good. Salinity and temperature sensors located at -1.85 ft NAVD 88 (TOP) and -3.75 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and 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/>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 42.4 ppt May 31, June 1, 2005; minimum recorded, 0.2 ppt occurred on many days during the months of July-Oct. during the 1996, 1997, 1999, and 2001 water years.

SALINITY (BOTTOM): Maximum recorded, 42.7 ppt June 1, 2005; minimum recorded, 0.2 ppt occurred on many days during the months of July-Oct. during the 1996, 1997, 1999, and 2001 water years.

WATER TEMPERATURE (TOP): Maximum recorded, 35.8°C July 12, 2000; minimum recorded, 9.7°C Jan. 19-20, 1997.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.1°C July 25, 26, 1999; minimum recorded, 9.7°C Jan. 19, 1997.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 36.4 ppt May 21; minimum recorded, 0.5 ppt Jul. 2,3, 8-15, 17-20, 25-27, Aug. 7-9.

SALINITY (BOTTOM): Maximum recorded, 36.8 ppt May 31, and Jun. 1; minimum recorded, 0.5 ppt Jul. 2,3, 5, 8-20, 25-27, Aug. 7-9, Sept. 30.

WATER TEMPERATURE (TOP): Maximum recorded, 35.1°C July. 20; minimum recorded, 12.7°C Feb. 19.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 35.2°C July. 20; minimum recorded, 12.8°C Feb. 19.

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**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--October 2004 to current year.

INSTRUMENTATION.--Unshielded standard 8 in. diameter tipping bucket precipitation gage with 0.01 in. resolution.

REMARKS.--Records excellent. During periods of missing record, values may be higher or lower than the listed extremes.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily precipitation, 6.97 in. Aug. 26, 2005.

EXTREMES FOR CURRENT YEAR.—Maximum daily precipitation, 3.84 in. Feb. 12.