

Water-Data Report 2007

251549080251200 MANATEE BAY CREEK NEAR HOMESTEAD, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°15'51", long 80°25'12" referenced to North American Datum of 1983, T.59 S., R.39 E., Miami-Dade County, FL, Hydrologic Unit 03090202, located approximately 300 ft upstream of mouth, 9.5 mi north of Key Largo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2003 to current year.

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

REMARKS.--Record rated as good. No daily values have been published for this site. Discharge and gage height 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.--

DISCHARGE: Maximum positive discharge, 2490 ft³/s Oct. 24, 2005; maximum negative, 1780 ft³/s Oct. 24, 2005.

GAGE HEIGHT: Maximum gage height, 2.27 ft Sept. 20, 2005; minimum, -1.96 ft Oct. 24, 2005.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 463 ft³/s Sept. 9; maximum negative, 603 ft³/s June 14.

GAGE HEIGHT: Maximum gage height, 0.83 ft May 22; minimum, -1.48 ft Feb. 27 and Apr. 15.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): October 2003 to August 2006.

SALINITY (BOTTOM): October 2003 to current year.

TEMPERATURE (TOP): October 2003 to August 2006.

TEMPERATURE (BOTTOM): October 2003 to current year.

INSTRUMENTATION.--Water-quality monitor bottom sensor.

REMARKS.--During periods of missing record, values may be higher or lower than the extremes recorded. Salinity (BOTTOM) record rated excellent for the entire water year. Temperature (BOTTOM) rated excellent except for the following period: Oct. 1 to 17, Oct. 22 to Nov. 7, and May 23 to July 3, rated good. 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, 44.7 ppt July 18, 2004; minimum recorded, 0.1 ppt Sept. 5, 2004.

SALINITY (BOTTOM): Maximum recorded, 44.6 ppt July 18, 19, 2004; minimum recorded, 2.4 ppt Aug. 31, Sept. 1, 2005.

TEMPERATURE (TOP): Maximum recorded, 36.4°C July 29, 2005 and Aug. 4, 2005; minimum recorded, 12.6°C Feb. 14, 2006.

TEMPERATURE (BOTTOM): Maximum recorded, 36.2°C Aug. 4, 2005; minimum recorded, 12.7°C Feb. 14, 2006.

EXTREMES FOR CURRENT YEAR.--

SALINITY (BOTTOM): Maximum recorded, 37.4 ppt May 24,; minimum recorded, 5.8 ppt June 30.

TEMPERATURE (BOTTOM): Maximum recorded, 35.8°C July 13; minimum recorded, 13.3°C Feb. 19.