

Water-Data Report 2006

251816080232200 CARD SOUND CANAL NEAR HOMESTEAD, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°18'18", long 80°23'23" referenced to North American Datum of 1983, T.59 S., R.39 E., Miami-Dade County, FL, Hydrologic Unit 03090202, located approximately 1 mi upstream of the mouth, approximately 12 mi northeast of Key Largo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

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

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

REMARKS.--Record rated good. No daily values have been published for this site. Rainfall data not published, but available in files of the U.S. Geological Survey. 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, 853 ft³/s Sept. 21, 2005; maximum negative, 887 ft³/s Sept. 20, 2005.

GAGE HEIGHT: Maximum gage height, 1.99 ft Sept. 20, 2005, minimum, -1.66 ft Feb. 24, 2006.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 792 ft³/s Oct. 24, 2005; maximum negative, 846 ft³/s Oct. 24, 2005.

GAGE HEIGHT: Maximum gage height, 1.01 ft Oct. 24, 2005, minimum, -1.66 ft Feb. 24, 2006.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP AND BOTTOM): October 2003 to current year

TEMPERATURE (TOP AND BOTTOM): October 2003 to current year

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

REMARKS.--During periods of missing record, values may be higher or lower than the extremes recorded. Salinity (TOP) record rated excellent. Salinity (BOTTOM) record is rated excellent except for the following period: July 18 through Sept. 13, rated good. Temperature (TOP) record rated excellent. Temperature (BOTTOM) record is rated excellent except for the following period: July 18 through Sept. 13, rated good. Salinity and temperature sensors located at -2.02 ft NAVD 88 (TOP) and -4.03 ft NAVD 88(BOTTOM). 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, 40.7 ppt June 6, 2004; minimum recorded, 0.5 ppt Aug 27, 2005.

SALINITY (BOTTOM): Maximum recorded, 42.0 ppt July 15, 2004; minimum recorded, 0.3 ppt Feb. 27, 2004.

TEMPERATURE (TOP): Maximum recorded, 38.2°C July 11, 2004; minimum recorded, 14.1°C Feb. 12, 2005.

TEMPERATURE (BOTTOM): Maximum recorded, 38.4°C July 11, 2004; minimum recorded, 14.4°C Feb. 12, 2005.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 38.5 ppt May 13, 15, 16; minimum recorded, 1.0 ppt Sept. 5, 6.

SALINITY (BOTTOM): Maximum recorded, 38.4 ppt May 14-16; minimum recorded, 1.0 ppt Sept. 5, 6.

TEMPERATURE (TOP): Maximum recorded, 34.2°C May 22; minimum recorded, 17.2°C Mar. 27.

TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C June 23; minimum recorded, 17.8°C Feb. 14.