

Water-Data Report 2006

02290878 BROAD RIVER NEAR THE CUTOFF, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°30'05", long 81°04'37" referenced to North American Datum of 1927, Monroe County, FL, Hydrologic Unit 03090202, Big Lostman's Bay Quadrangle, located on left bank of Broad River between Broad River Bay and the Cutoff, 27 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 2001 to current year.

REVISED RECORDS.--WDR FL-2005-2A, 2001-2004. See REMARKS

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

REMARKS.--Records fair. Daily values are not published for this site. Discharge and gage-height 15 minutes data are available in the files of the U.S. Geological Survey. Published and revised data can also be accessed online at <http://sofia.usgs.gov/>. Gage-height records from the beginning of the period of record through the 2004 water year were revised during publication of 2005 records due to an error in the initial GPS elevations used to establish all elevations at the station.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 6,190 ft³/s Sept. 4, 2002; maximum negative, 11,500 ft³/s Oct. 24, 2005.

GAGE HEIGHT: Maximum gage height, 1.80 ft Oct. 24, 2005; minimum, -2.45 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 5,680 ft³/s Nov. 2; maximum negative, 11,500 ft³/s Oct. 24.

GAGE HEIGHT: Maximum gage height, 1.80ft Oct. 24; minimum, -2.10 ft Jan. 28.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP, BOTTOM): February 2001 to current year.

WATER TEMPERATURE (TOP, BOTTOM): February 2001 to current year.

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

REMARKS.--Salinity (TOP and BOTTOM) record rated fair. Temperature (TOP and BOTTOM) records rated fair. Salinity and temperature sensors located at -2.1 ft NAVD 88 (TOP) and -4.6 ft NAVD 88 (BOTTOM). Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minutes 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, 37.0 ppt May 25, 26, 2005; minimum recorded, 0.2 ppt Oct. 8, 2001; Oct. 13-16, 2003; Sept.29, 2005 and Oct. 9, 10, 21, 2005.

SALINITY (BOTTOM): Maximum recorded, 36.8 ppt May 22, 2001; minimum recorded, 0.2 ppt Oct. 8, 2001, Oct. 13-16, 2003; Sept. 25, 29, 30, 2005 and Oct.9, 10, 15, 16, 21, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 33.6°C Aug. 3, 2002; minimum recorded, 13.0°C Jan. 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.5°C Aug. 3, 2002; minimum recorded, 13.5°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 34.2 ppt May 11; minimum recorded, 0.2 ppt Oct. 9, 10, 21.

SALINITY (BOTTOM): Maximum recorded, 34.0 ppt May 11; minimum recorded, 0.2 ppt Oct. 9, 10, 15, 16, 21.

WATER TEMPERATURE (TOP): Maximum recorded, 32.93°C Sept. 13; minimum recorded, 15.17°C Feb. 14.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.75°C June 16; minimum recorded, 15.2°C Feb. 14.