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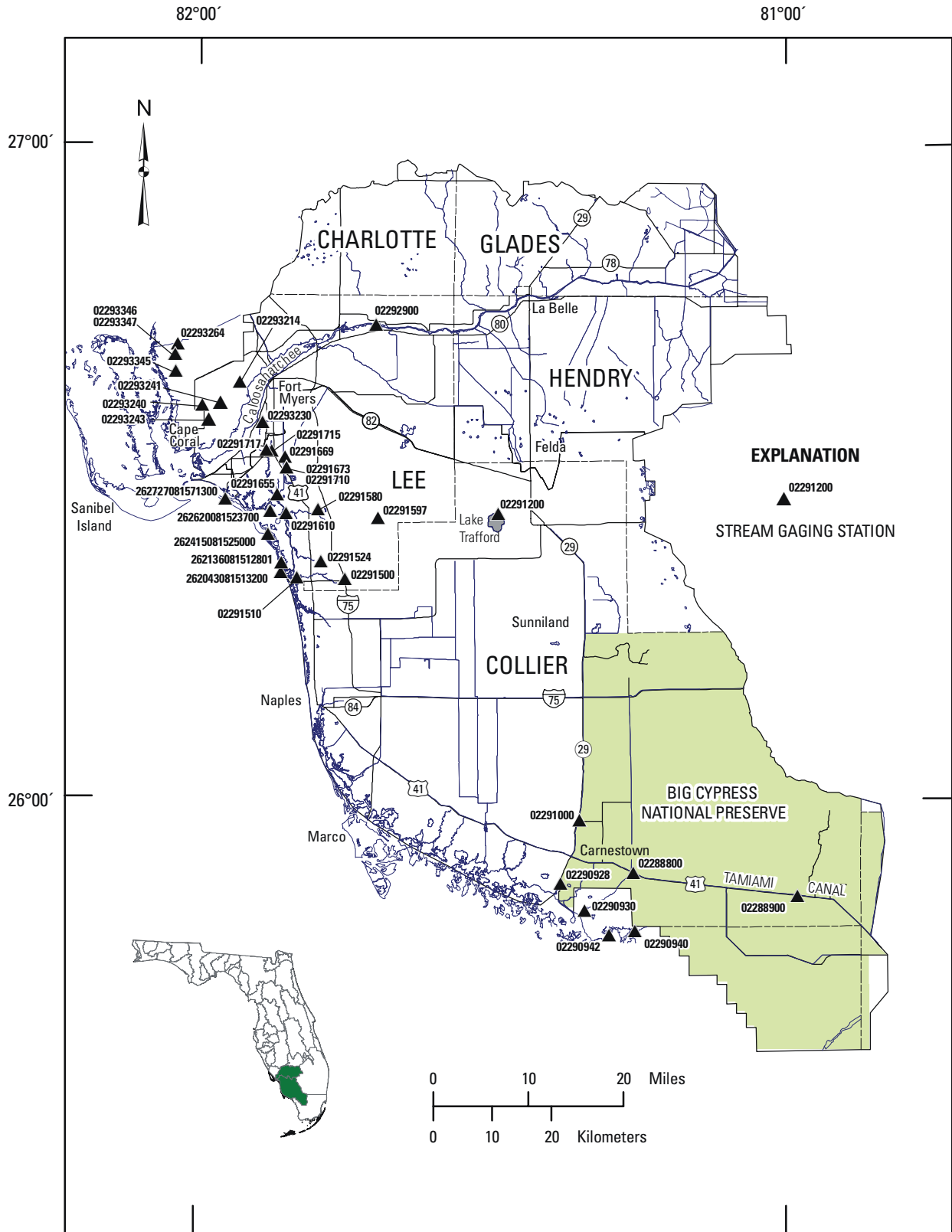


Figure 22. Location of gaging stations in the Big Cypress Swamp and southwestern coastal area, the Caloosahatchee River, Lake Trafford, Charlotte Harbor, and the coastal area.

022908205 NORTH RIVER UPSTREAM OF CUTOFF NEAR FLAMINGO, FL

LOCATION.--Lat 25°20'19", long 80°54'48", T.59 S., R.34 E., Monroe County, Harney River Quadrangle, Hydrologic Unit 03090202, right bank, 0.3 mi northeast of the Cutoff, 13.5 mi northwest of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1999 to current year. January 12, 1999, to March 14, 2001, operated and maintained by the USGS/Tampa Office. March 15, 2001, to current year operated and maintained by the USGS/Ft. Lauderdale Office.

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 fair. 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, 1,810 ft³/s Aug. 26,27, 2005; maximum negative, 3,540 ft³/s Aug. 26, 2005.
GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 5, 2004; minimum, -2.04 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 1,810 ft³/s Aug. 26,27; maximum negative, 3,540 ft³/s Aug. 26.
GAGE HEIGHT: Maximum gage height, 1.25 ft Aug. 26; minimum, -1.87 ft July 9.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP AND BOTTOM): March 15, 2001 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): March 15, 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Feb. 28 to Mar. 31, rated good. Salinity (BOTTOM) record rated excellent except for the following period: Mar. 12-31, rated good. Temperature (TOP AND BOTTOM) records rated good. Salinity and temperature sensors located at -2.0 ft NAVD 88 (TOP) and -3.4 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. 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, 33.6 ppt May 23, 24, 2001; minimum recorded, 0.2 ppt Sept. 30, 2001, Oct. 1-3, 2001, Sept. 26, 30, 2003, Oct. 1-8, 2003, Sept. 21-30, 2005.
SALINITY (BOTTOM): Maximum recorded, 34.0 ppt May 23, 2001; minimum recorded, 0.2 ppt Sept. 30, 2001, Oct. 13, 2001, Sept. 30, 2003, Oct. 1-8, 2003, Sept. 21-30, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 34.2°C June 12, 2001; minimum recorded, 11.6°C Jan. 25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C June 12, 2001; minimum recorded, 11.6°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 29.4 ppt May 25; minimum recorded, 0.2 ppt Sept. 21-30.
SALINITY (BOTTOM): Maximum recorded, 29.8 ppt June 1; minimum recorded, 0.2 ppt Sept. 21-30.
WATER TEMPERATURE (TOP): Maximum recorded, 33.5°C June 18; minimum recorded, 14.6°C Jan. 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.3°C June 18; minimum recorded, 14.7°C Dec. 16.

022908295 BOTTLE CREEK AT ROOKERY BRANCH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°28'05", long 80°51'16", in NW $\frac{1}{4}$ sec.6, T.53 S., R.31 E., Miami-Dade County, Hydrologic Unit 03090202, Pa- Hay-Okee Lookout Tower Quadrangle, right bank of Bottle Creek (tributary of Rookery Branch) east of Rookery Mound, 22 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2002 to current year.

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

REMARKS.--Records poor. 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. During periods of missing record values may be higher or lower than the listed extremes. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 56 ft³/s Sept. 29, 2005; maximum negative, 11 ft³/s May 21, 24, 2005.

GAGE HEIGHT: Maximum gage height, 2.04 ft Sept. 22, 2005; minimum, -1.30 ft May 12, 2002.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 56 ft³/s Sept. 29; maximum negative, 11 ft³/s May 21, 24.

GAGE HEIGHT: Maximum gage height, 2.04 ft Sept. 22; minimum, -1.23 ft Apr. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: October 2003 to current year.

WATER TEMPERATURE: February 2002 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Specific conductance record rated excellent. Temperature record rated good. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes. Sensor located at -0.75 ft NAVD 88. Specific conductance 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.--

SPECIFIC CONDUCTANCE: Maximum recorded, 14,400 microsiemens May 27, 2005; minimum recorded, 284 microsiemens, July 11, 2004.

WATER TEMPERATURE: Maximum recorded, 36.0°C July 23, 2005; minimum recorded, 10.2°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 14,400 microsiemens, May 27; minimum recorded, 306 microsiemens, Oct. 1.

WATER TEMPERATURE: Maximum recorded, 36.0°C July 23; minimum recorded, 12.7°C Feb. 12.

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA
252019080544800 UPSTREAM NORTH RIVER NEAR FLAMINGO, FL

LOCATION.--Lat 25°20'19", long 80°54'48", T.56 S., R.32 E., Monroe County, Hydrologic Unit 03090202, in Everglades National Park.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter and a YSI 600 XL w/pressure sensor. Datum of gage is 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, 103 ft³/s Sept. 21, 2005; maximum negative, 94 ft³/s Sept. 5, 2004.

GAGE HEIGHT: Maximum gage height, 1.01 ft Sept. 6, 2004; minimum, -1.93 ft Mar. 26, 2004.

EXTREMES FOR FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 103 ft³/s Sept. 21; maximum negative, 70 ft³/s Aug. 26.

GAGE HEIGHT: Maximum gage height, 0.97 ft Aug. 26; minimum, -1.81 ft Jan. 19.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

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

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

REMARKS.--Salinity (TOP AND BOTTOM) records rated excellent. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -0.75 ft NAVD 88 (TOP) and -3.44 ft NAVD 88 (BOTTOM). Salinity and temperature 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.--

SALINITY (TOP): Maximum recorded, 28.3 ppt May 26, 27, 2005; minimum recorded, 0.15 ppt Sept. 21, 2005.

SALINITY (BOTTOM): Maximum recorded, 28.8 ppt May 26, 2005; minimum recorded, 0.14 ppt Oct. 1, 2, 2003.

WATER TEMPERATURE (TOP): Maximum recorded, 36.9°C June 23, 24, 2004; minimum recorded, 9.40°C Jan. 18, 2005.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 37.0°C June 23, 2004; minimum recorded, 9.43°C Jan. 18, 2005.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 28.3 ppt May 26, 27; minimum recorded, 0.15 ppt Sept. 21.

SALINITY (BOTTOM): Maximum recorded, 28.8 ppt May 26; minimum recorded, 0.15 ppt Sept. 21.

WATER TEMPERATURE (TOP): Maximum recorded, 36.2°C July 5, 6; minimum recorded, 9.40°C Jan. 18.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 36.3°C July 5, 6; minimum recorded, 9.43°C Jan. 18.

252230081021300 SHARK RIVER NEAR GUNBOAT ISLAND NEAR FLAMINGO, FL

LOCATION.--Lat 25°22'30", long 81°02'12", T.58 S., R.33 E., Monroe County, Harney River Quadrangle, Hydrologic Unit 03090202, left bank, 0.3 mi north of Gunboat Island, 18 mi northwest of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Record poor. Daily values are not 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, 9,820 ft³/s Oct. 16, 2001; maximum negative, 12,600 ft³/s Sept. 5, 2004.

GAGE HEIGHT: Maximum gage height, 1.82 ft Sept. 5, 2004; minimum, -3.21 ft Feb. 14, 2003, Mar. 4, 2005.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 9,430 ft³/s Sept. 20; maximum negative, 10,400 ft³/s Aug. 19.

GAGE HEIGHT: Maximum gage height, 1.18 ft Aug. 26; minimum, -3.21 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: March 2001 to current year.

WATER TEMPERATURE: March 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. Salinity and temperature sensors located at -3.3 ft NAVD 88. During periods of missing record, values may be higher or lower than the listed extremes. 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: Maximum recorded, 34.9 ppt June 1, 2005; minimum recorded, 0.3 ppt Sept. 24, 2005.

WATER TEMPERATURE: Maximum recorded, 33.1°C Aug. 4, 2002; minimum recorded, 14.4°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 34.9 ppt June 1; minimum recorded, 0.3 ppt Sept. 24.

WATER TEMPERATURE: Maximum recorded, 32.1°C July 5; minimum recorded, 16.1°C Jan. 25.

252551081050900 HARNEY RIVER NEAR FLAMINGO, FL

LOCATION.--Lat 25°25'51", long 81°05'09", Monroe County, Hydrologic Unit 03090202, in Everglades National Park, approximately 300 ft upstream of the Harney River chickee on the left bank.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 2003 to current year.

GAGE HEIGHT: 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.--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, 10300 ft³/s Sept. 17, 2005; maximum negative, 10600 ft³/s Sept. 9, 2004.

GAGE HEIGHT: Maximum gage height, 1.64 ft Sept. 9, 2004; minimum, -3.89 ft Mar. 4, 2005.

EXTREMES FOR FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 10300 ft³/s Sept. 17; maximum negative, 9890 ft³/s Sept. 17.

GAGE HEIGHT: Maximum gage height, 1.11 ft Sept. 17; minimum, -3.89 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

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

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

REMARKS.--Salinity (TOP) record rated good except for the following periods: Dec. 18-31, Jan. 1-28, rated fair. Salinity (BOTTOM) record rated good except for the period: Dec. 11-18, rated fair. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 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.--

SALINITY (TOP): Maximum recorded, 35.9 ppt May 24, 2005; minimum recorded, 0.45 ppt Sept. 24, 2005.

SALINITY (BOTTOM): Maximum recorded, 35.7 ppt May 25, 26, 2005; minimum recorded, 0.46 ppt Sept. 24, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 32.9°C Sept. 13, 2005; minimum recorded, 15.5°C Dec. 23, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.9°C Sept. 13, 2005; minimum recorded, 15.6°C Dec. 23, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 35.9 ppt May 24; minimum recorded, 0.45 ppt Sept. 24.

SALINITY (BOTTOM): Maximum recorded, 35.7 ppt May 25, 26; minimum recorded, 0.46 ppt Sept. 24.

WATER TEMPERATURE (TOP): Maximum recorded, 32.9°C Sept. 13; minimum recorded, 15.6°C Jan. 26.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.9°C Sept. 13; minimum recorded, 15.7°C Jan. 26.

253047080555600 UPSTREAM BROAD RIVER NEAR EVERGLADES CITY, FL

LOCATION.--Lat 25°30'47", long 80°55'56", T.56 S., R.32 E., Monroe County, Hydrologic Unit 03090202, Big Lostman's Bay Quadrangle, right bank of Broad River, upstream of Camp Lonesome, 27 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

GAGE HEIGHT: September 2003 to current year.

DISCHARGE: September 2003 to current year.

GAGE.--Satellite data collection platform with shallow-vented pressure transducer 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 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 244 ft³/s Sept. 22, 2005; maximum negative, 106 ft³/s June 1, 2005.

GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 22, 2005; minimum, -1.88 ft Mar. 4, 2005.

EXTREMES FOR FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge 244 ft³/s Sept. 22; maximum negative, 106 ft³/s June 1.

GAGE HEIGHT: Maximum gage height, 1.47 ft Sept. 22; minimum, -1.88 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): October 2003 to current year.

SALINITY (BOTTOM): September 2003 to current year.

WATER TEMPERATURE (TOP): October 2003 to current year.

WATER TEMPERATURE (BOTTOM): September 2003 to current year.

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

REMARKS.--Salinity (TOP AND BOTTOM) record rated excellent. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensor located at -0.75 ft NAVD 88 (TOP), from water surface in floating mount, and -3.33 ft NAVD 88 (BOTTOM). Salinity and temperature 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.--

SALINITY (TOP): Maximum recorded, 20.8 ppt June 1, 2005; minimum recorded, 0.1 ppt Sept. 20-22, 2005.

SALINITY (BOTTOM): Maximum recorded, 20.9 ppt June 1, 2005; minimum recorded, 0.1 ppt Sept. 20, 21, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C July 22, 2005; minimum recorded, 11.7°C Dec. 21, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0°C July 22, 23, 2005; minimum recorded, 11.7°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 20.8 ppt June 1; minimum recorded, 0.1 ppt Sept. 20-22.

SALINITY (BOTTOM): Maximum recorded, 20.9 ppt June 1; minimum recorded, 0.1 ppt Sept. 20, 21.

WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C July 22; minimum recorded, 12.2°C Jan. 24.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0°C July 22, 23; minimum recorded, 11.8°C Jan 24.

253357080594100 UPSTREAM LOSTMAN'S RIVER NEAR EVERGLADES RIVER, FL

LOCATION.--Lat 25°33'57", long 80°59'41", T.56 S., R.32 E., Monroe County, Hydrologic Unit 03090202, Big Lostman's Bay Quadrangle, right bank of Lostman's River Creek, 30 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

GAGE HEIGHT: September 2003 to current year.
DISCHARGE: September 2003 to current year.

GAGE.--Satellite data collection platform with shallow-vented pressure transducer 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 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, 156 ft³/s July 9, 2005; maximum negative, 57 ft³/s May 25, June 1, 2005.
GAGE HEIGHT: Maximum gage height, 1.89 ft Sept. 6, 2004; minimum, -1.11 ft Mar. 4, 2005.

EXTREMES FOR FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 156 ft³/s July 9; maximum negative, 57 ft³/s May 25, June 1.
GAGE HEIGHT: Maximum gage height, 1.76 ft Sept. 22; minimum, -1.11 ft Mar. 4.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): November 2003 to current year.
SALINITY (BOTTOM): September 2003 to current year.
WATER TEMPERATURE (TOP): November 2003 to current year.
WATER TEMPERATURE (BOTTOM): September 2003 to current year.

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

REMARKS.--Salinity (TOP) record rated excellent except for the following period: Dec. 1 to Jan. 5, rated good. Salinity (BOTTOM) record rated excellent except for the following period: Mar. 4 to 17, rated good. Temperature (TOP AND BOTTOM) records rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -0.75 ft NAVD 88 (TOP), from water surface in floating mount, and -2.08 ft NAVD 88 (BOTTOM). Salinity and temperature 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.--

SALINITY (TOP): Maximum recorded, 27.2 ppt June 1, 2005; minimum recorded, 0.1 ppt Sept. 8, 2004, Sept. 20-24, 2005.
SALINITY (BOTTOM): Maximum recorded, 27.4 ppt June 1, 2005; minimum recorded, 0.1 ppt Oct. 1-3, 13, 14, 2003, Sept. 21-23, 2005.
WATER TEMPERATURE (TOP): Maximum recorded, 32.6°C June 1, 2004; minimum recorded, 11.7°C Dec. 21, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 32.6°C June 1, 2004; minimum recorded, 11.7°C Dec. 21, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 27.2 ppt June 1; minimum recorded, 0.1 ppt Sept. 20-24.
SALINITY (BOTTOM): Maximum recorded, 27.4 ppt June 1; minimum recorded, 0.1 ppt Sept. 21-23.
WATER TEMPERATURE (TOP): Maximum recorded, 31.6°C Sept. 12; minimum recorded, 13.2°C Jan 25.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 31.6°C Sept. 1, 11, 12; minimum recorded, 13.2°C Jan. 25.

02290878 BROAD RIVER NEAR THE CUTOFF, FL

LOCATION.--Lat 25°30'05", long 81°04'37", T.56 S., R.32 E., Monroe County, Big Lostman's Bay Quadrangle, Hydrologic Unit 03090202, located on left bank of Broad River between Broad River Bay and the Cutoff, 27 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

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 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, 6,190 ft³/s Sept. 4, 2002; maximum negative, 6,000 ft³/s Sept. 14, 2001.
GAGE HEIGHT: Maximum gage height, 1.43 ft Sept. 5, 2004; minimum, -2.45 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 5,920 ft³/s Aug. 26; maximum negative, 5,370 ft³/s Feb. 8.
GAGE HEIGHT: Maximum gage height, 1.00 ft Sept. 16; minimum, -2.14 ft Mar. 4.

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 excellent. Temperature (TOP and BOTTOM) records rated good. 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 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, 37.0 ppt May 25, 26, 2005; minimum recorded, 0.2 ppt Oct. 8, 2001; Oct. 1, 13-16, 2003; Sept. 29, 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.
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, 37.0 ppt May 25, 26; minimum recorded, 0.2 ppt Sept. 29.
SALINITY (BOTTOM): Maximum recorded, 36.7 ppt May 25; minimum recorded, 0.2 ppt Sept. 25, 29, 30.
WATER TEMPERATURE (TOP): Maximum recorded, 33.1°C June 18; minimum recorded, 15.1°C Jan. 15.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.0°C June 18; minimum recorded, 15.1°C Jan. 25.

02290888 CHATHAM RIVER NEAR THE WATSON PLACE, FL

LOCATION.--Lat 25°42'33", long 81°14'60", T.55 S., R.31 E., Monroe County, Hydrologic Unit 03090202, right bank, 200 yards southwest of Watson Place, approximately 3 mi from the Gulf of Mexico, 10 mi south of Chokoloskee.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage was changed to North American Vertical Datum of 1988 (NAVD88), and the MP was changed to 5.574 ft during the 2005 water year.

REMARKS.--Records good. 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. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 11,800 ft³/s Sept. 14, 2001; maximum negative, 18,800 ft³/s Sept. 14, 2001.
GAGE HEIGHT: Maximum gage height, 2.40 ft Sept. 14, 2001; minimum, -2.44 ft Dec. 16, 2004.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 9,440 ft³/s Oct. 15; maximum negative, -13,200 ft³/s Feb. 10.
GAGE HEIGHT: Maximum gage height, 1.43 ft Sept. 16, 17; minimum, -2.44 ft Dec. 16.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

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

REMARKS.--Salinity (TOP) record are rated fair due to fouling data correction of 4.3% on March 16, 2005, and a 10 days of missing data from June 21, 2005 to July 1, 2005 due to probe malfunction. Salinity (BOTTOM) record are rated fair due to fouling data correction of 10.8 % on April 29, 2005, a fouling correction of 12.1% on Sept. 8, 2005 and 10 days of missing data from June 21, 2005 to July 1, 2005 due to probe malfunction. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at 2.306 ft based on NAVD88 (TOP) and -4.406 ft based on NAVD88 (BOTTOM). During times of missing record, values may have been 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, 42.4 ppt Apr.27, 2001, and May 3, 2001. Minimum recorded, 1.3 ppt Aug. 14, 2003.
SALINITY (BOTTOM): Maximum recorded, 42.9 ppt May 1, 2001; minimum recorded, 1.7 ppt Aug. 14, 2003.
WATER TEMPERATURE (TOP): Maximum recorded, 33.91°C July 26, 2005. Minimum recorded, 12.1°C Jan.25, 2003.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.09°C July 26, 2005; minimum recorded, 12.2°C Jan.25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 39.0 ppt May 31; minimum recorded, 2.9 ppt July 17-19.
SALINITY (BOTTOM): Maximum recorded, 39.8 ppt April 29; minimum recorded, 3.0 ppt July 17-19.
WATER TEMPERATURE (TOP): Maximum recorded, 33.91°C July 26; minimum recorded, 14.9°C Jan. 20.
WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.09°C July 26; minimum recorded, 14.95°C Jan. 20.

02290918 LOSTMAN'S RIVER BELOW SECOND BAY, FL

LOCATION.--Lat 25°33'20", long 81°09'53", T.56 S., R.31 E., Monroe County, Hydrologic Unit 03090202, left bank of Lostman's River between First Bay and Second Bay, 3 mi from the mouth, 22 mi southeast of Chokoloskee Island.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: March 2001 to current year.

GAGE HEIGHT: March 2001 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 fair. 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, 23,300 ft³/s Sept. 18, 2001; maximum negative, 39,000 ft³/s Sept. 14, 2001.

GAGE HEIGHT: Maximum gage height, 2.36 ft Sept. 14, 2001; minimum, -2.50 ft Mar. 6, 2002.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 21,300 ft³/s Sept. 17; maximum negative, 31,100 ft³/s June 1.

GAGE HEIGHT: Maximum gage height, 1.55 ft Sept. 17; minimum, -2.25 ft Jan. 18.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

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

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

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

REMARKS.--Salinity (TOP) record rated good except for the following periods: Nov. 22 to Dec. 4, rated fair; Dec. 5 to Jan. 5, rated poor. Salinity (BOTTOM) record rated good except for the following periods: Mar. 27 to Apr. 13, rated fair; Apr. 14-28, rated poor. Temperature (TOP and BOTTOM) record rated good. Data can also be accessed online at <http://sofia.usgs.gov/>. Daily values are not published for this site. Salinity and temperature sensors located at -2.8 ft NAVD 88 (TOP) and -5.1 ft NAVD 88 (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data, are available in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 40.2 ppt Apr. 26, 2001; minimum recorded, 0.4 ppt Oct. 27, 2001, Oct. 5-7, 16-17, 2004.

SALINITY (BOTTOM): Maximum recorded, 40.8 ppt Apr. 26, 2001; minimum recorded, 0.4 ppt Oct. 10, 2001, Oct. 5-7, 17, 2004, Sept. 24-26, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 33.9°C July 25, 2005; minimum recorded, 12.6°C Jan. 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.8°C July 25, 2005; minimum recorded, 12.6°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 37.5 ppt May 25, 26; minimum recorded, 0.4 ppt Sept. 24-27, 29, 30.

SALINITY (BOTTOM): Maximum recorded, 38.2 ppt May 31; minimum recorded, 0.4 ppt Sept. 24-26.

WATER TEMPERATURE (TOP): Maximum recorded, 33.9°C July 25; minimum recorded, 15.1°C Jan. 20.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.8°C July 25; minimum recorded, 15.1°C Jan. 20.

02290928 BARRON RIVER AT EVERGLADES CITY, FL

LOCATION.--Lat 25°52'11", long 81°22'57", NE $\frac{1}{4}$ sec 12, T.53 S., R.30 E., Collier County, Hydrologic Unit 03090204, left bank, 100 ft east of State Road 29, 1 mi north of Everglades City, 3 mi south of US Highway 41.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

REMARKS.--During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. Gage height 15 minute data, is 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.--

GAGE HEIGHT: Maximum gage height, 2.01 ft Sept. 26, 2004; minimum, -2.44 ft Jan. 24, 2005.

EXTREMES FOR CURRENT YEAR.--

GAGE HEIGHT: Maximum gage height, 1.41 ft Sept. 16; minimum, -2.44 ft Jan. 24.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: September 2001 to current year.

WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature sensors located at -2.4 ft NAVD 88. Salinity and temperature 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.--

SALINITY: Maximum recorded, 39.2 ppt May 30 and June 1, 2002; minimum recorded, 0.2 ppt occurred on many days during multiple years.

WATER TEMPERATURE: Maximum recorded, 33.6°C June 23, 2004 and July 24, 2005; minimum recorded, 12.7°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 37.9 ppt May 31; minimum recorded, 0.2 ppt occurred on multiple days during the months of June, July, Aug. and Sept.

WATER TEMPERATURE: Maximum recorded, 33.6°C July 24; minimum recorded, 15.0°C Dec. 16.

02290930 TURNER RIVER NEAR CHOKOLOSKEE ISLAND, FL

LOCATION.--Lat 25°49'43", long 81°20'30", T.53 S., R.30 E., Collier County, Hydrologic Unit 03090204, on right bank 0.8 mi northeast of river mouth, 1.3 mi northeast of Chokoloskee.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is 10 ft arbitrary.

REMARKS.--Daily values are not published for this site. Gage height 15 minute data is available in files of the U.S. Geological Survey. During periods of missing record, values may have be higher or lower than the listed extremes. Data can also be accessed online at <http://sofia.usgs.gov/>.

EXTREMES FOR PERIOD OF RECORD.--

GAGE HEIGHT: Maximum gage height, 7.29 ft Sept. 26, 2004; minimum, 1.66 ft Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--

GAGE HEIGHT: Maximum gage height, 6.52 ft Sept. 17; minimum, 1.76 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: September 2001 to current year.

WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity records rated excellent except for the following periods: June 6-25, rated good. Temperature records rated good. Salinity and temperature sensors located at 2.8 ft, relative to arbitrary datum. Daily values are not published for this site. During periods of missing record, values may have be higher or lower than the listed extremes. 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: Maximum recorded, 39.2 ppt May 30, 31, June 1, 2005; minimum recorded, 0.5 ppt Oct. 6, 2003.

WATER TEMPERATURE: Maximum recorded, 34.4 °C July 24, 2005; minimum recorded, 11.4°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 39.2 ppt May 30, 31; June 1; minimum recorded, 0.8 ppt Aug. 15.

WATER TEMPERATURE: Maximum recorded, 34.4 °C July 24; minimum recorded, 13.9°C Dec. 16.

02290940 NEW RIVER AT SUNDAY BAY, FL

LOCATION.--Lat 25°47'51", long 81°15'20", T.53 S., R.31 E., Monroe County, Hydrologic Unit 03090204, located 0.5 mi from the river mouth, 7 mi southeast of Chokoloskee Island.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is arbitrary.

REMARKS.--Daily values are not published for this site. Gage height 15 minutes data, are available in files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>. During periods of missing record values may be higher or lower than the listed extremes.

EXTREMES FOR PERIOD OF RECORD.--

GAGE HEIGHT: Maximum gage height, 5.60 ft Sept. 14, 2001; minimum, 1.01 ft Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--

GAGE HEIGHT: Maximum gage height, 4.61 ft Sept. 16,17; minimum, 1.32 ft Jan. 17.

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- SALINITY (TOP, BOTTOM):May 2001 to current year. WATER TEMPERATURE (TOP, BOTTOM):May 2001 to current year.

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

REMARKS.--Salinity (TOP) record rated excellent except for the following period: Feb. 26 to Mar. 16, rated good. Salinity (BOTTOM) record rated excellent. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at 2.0 ft (TOP) and -0.5 ft (BOTTOM), relative to arbitrary datum. 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, 43.8 ppt May 20, 2001; minimum recorded, 0.1 ppt Sept. 29, 30, 2001, Mar. 5, 2001, Sept. 30, 2003, and Oct. 1-10, 2003.

SALINITY (BOTTOM): Maximum recorded, 43.7 ppt May 20, 2001; minimum recorded, 0.1 ppt Sept. 30, 2003, Oct. 1-10, 2003.

WATER TEMPERATURE (TOP): Maximum recorded, 34.6°C July 16, 2004; minimum recorded, 11.0°C Jan. 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.6°C July 16, 2004; minimum recorded, 11.5°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 39.0 ppt May 31 and June 1; minimum recorded, 0.2 ppt Sept. 23-30.

SALINITY (BOTTOM): Maximum recorded, 38.3 ppt May 31 and June 1; minimum recorded, 0.2 ppt Sept. 23-30.

WATER TEMPERATURE (TOP): Maximum recorded, 32.8°C June 18; minimum recorded, 14.9°C Feb. 13.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 33.1°C July 6; minimum recorded, 15.0°C Feb. 13.

02290942 LOPEZ RIVER NEAR THE LOPEZ CAMPSITE, FL

LOCATION.--Lat 25°47'29", long 81°17'59", T.54 S., R.30 E., Monroe County, Hydrologic Unit 03090204, 0.5 mi northeast of campsite, 2 mi northeast of the river mouth, 4.8 mi from Chokoloskee Island.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

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

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

REMARKS.--During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. 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.--

GAGE HEIGHT: Maximum gage height, 2.50 ft Sept. 14, 2001; minimum, -2.75 ft Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--

GAGE HEIGHT: Maximum gage height, 1.29 ft Sept. 16; minimum, -2.47 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: September 2001 to current year.

WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity records rated good. Temperature records rated good. Salinity and temperature sensors are located at -2.48 ft NAVD 88. During periods of missing record, values may have be higher or lower than the listed extremes. Daily values are not published for this site. 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: Maximum recorded, 43.5 ppt Apr. 30, and May 1,2001; minimum recorded, 0.44 ppt Oct. 5, 6, 2003.

WATER TEMPERATURE: Maximum recorded, 33.9 °C June 13, 2001, June 13, 2001, June 26, 2004; minimum recorded, 12.3°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 39.4 ppt May 31; minimum recorded, 0.8 ppt July 4, 5, 9, 16, 17, 18.

WATER TEMPERATURE: Maximum recorded, 33.8 °C July 24; minimum recorded, 15.1°C, Jan. 19.

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL

LOCATION.--Lat 25°57'28", long 81°21'19", in NW ¼ sec.7, T.52 S., R.30 E., Collier County, Hydrologic Unit 03090204, on right bank 40 ft upstream from control structure No. 6, 0.7 mi north of Copeland, 7 mi north of town of Everglades City, and 7.5 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July to December 1951 (discharge measurements only), January 1952 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). Prior to January 24, 1952, non-recording gage.

REMARKS.--Records poor. Zero flow for numerous days, during many water years. Flow regulated by operation of control structure at, above, and below station. Overbank flow not included in discharge figures. Records prior to January 1952 are available in files of the U.S. Geological Survey.

ANNUAL MEAN and ANNUAL SUMMARY STATISTICS.--Figures represent 50 complete years of discharge (1952-87, 1989-94, 1996, 1998-2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 7.07 ft Aug. 26, 1995; minimum, 0.21 ft May 18, 1962 and May 18, 1972.

EXTREME FOR STAGES FOR CURRENT YEAR.--Maximum gage height, 6.05 ft June 28; minimum, 1.39 ft May 31, June 1.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.30	5.07	4.09	3.16	2.82	2.23	2.29	1.91	1.42	---	---	5.56
2	5.29	5.04	4.05	3.15	2.78	2.14	2.27	1.90	1.48	---	5.60	5.61
3	5.28	5.00	4.01	3.13	2.76	2.12	2.24	1.88	1.61	---	5.58	5.68
4	5.28	4.96	3.97	3.10	2.74	2.21	2.21	1.85	1.87	---	5.55	5.77
5	5.28	4.98	3.92	3.08	2.72	2.23	2.18	1.84	2.00	---	5.53	5.81
6	5.27	4.95	3.88	3.06	2.70	2.21	2.15	1.83	2.03	---	5.54	5.83
7	5.27	4.90	3.85	3.04	2.68	2.19	2.14	1.81	2.09	---	5.55	5.82
8	5.25	4.85	3.83	3.01	2.65	2.21	2.37	1.77	2.44	---	5.68	5.80
9	5.23	4.81	3.79	2.99	2.63	2.31	2.49	1.75	2.73	---	5.74	5.76
10	5.23	4.78	3.78	2.96	2.61	2.58	2.46	1.73	4.08	---	5.76	5.72
11	5.23	4.75	3.87	2.93	2.58	2.57	2.40	1.71	4.88	---	5.81	5.69
12	5.24	4.73	3.77	2.91	2.55	2.52	2.35	1.69	4.99	---	5.84	5.70
13	5.23	4.70	3.71	2.88	2.53	2.48	2.31	1.68	5.13	---	5.85	5.65
14	5.23	4.67	3.68	3.02	2.51	2.43	2.27	1.67	5.18	---	5.85	5.60
15	5.29	4.64	3.62	3.37	2.48	2.40	2.23	1.66	5.22	---	5.85	5.56
16	5.29	4.59	3.57	3.38	2.46	2.36	2.18	1.64	5.28	---	5.84	5.52
17	5.27	4.56	3.54	3.32	2.44	2.41	2.15	1.62	5.34	---	5.82	5.49
18	5.25	4.53	3.51	3.27	2.42	2.81	2.12	1.61	5.37	---	5.79	5.47
19	5.24	4.48	3.47	3.23	2.39	2.78	2.10	1.60	5.42	---	5.77	5.46
20	5.26	4.44	3.43	3.20	2.36	2.70	2.08	1.59	5.54	---	5.77	5.46
21	5.25	4.39	3.40	3.17	2.34	2.64	2.07	1.57	5.72	---	5.73	5.60
22	5.23	4.35	3.37	3.14	2.32	2.58	2.05	1.56	5.77	---	5.68	5.73
23	5.22	4.31	3.34	3.12	2.30	2.55	2.02	1.54	5.85	---	5.64	5.74
24	5.20	4.30	3.32	3.08	2.28	2.58	2.00	1.53	5.89	---	5.60	5.71
25	5.19	4.33	3.31	3.04	2.28	2.55	1.99	1.51	5.88	---	5.58	5.67
26	5.18	4.28	3.30	3.00	2.30	2.51	1.97	1.49	5.88	---	5.59	5.64
27	5.23	4.22	3.26	2.97	2.30	2.47	1.96	1.48	6.01	---	5.63	5.60
28	5.25	4.24	3.22	2.94	2.30	2.44	1.97	1.46	6.03	---	5.63	5.56
29	5.20	4.17	3.20	2.90	---	2.40	1.96	1.45	6.02	---	5.60	5.53
30	5.15	4.13	3.17	2.87	---	2.35	1.93	1.42	5.98	---	5.58	5.52
31	5.10	---	3.17	2.85	---	2.32	---	1.41	---	---	5.55	---
TOTAL	162.41	138.15	111.40	95.27	70.23	75.28	64.91	51.16	133.13	---	---	169.26
MEAN	5.24	4.61	3.59	3.07	2.51	2.43	2.16	1.65	4.44	---	---	5.64
MAX	5.30	5.07	4.09	3.38	2.82	2.81	2.49	1.91	6.03	---	---	5.83
MIN	5.10	4.13	3.17	2.85	2.28	2.12	1.93	1.41	1.42	---	---	5.46

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	72	53	38	33	18	18	10	3.7	e139	e95	85
2	94	72	52	38	32	15	17	10	4.4	e134	94	86
3	93	71	52	37	32	15	16	9.7	5.8	e129	93	89
4	93	70	51	37	32	17	16	9.2	9.5	e124	92	94
5	92	70	50	37	31	17	15	8.9	12	e118	91	98
6	92	70	50	36	30	17	14	8.8	12	e113	92	99
7	92	69	49	36	30	16	14	8.5	13	e108	92	98
8	90	68	48	35	29	17	19	7.9	20	e106	98	95
9	89	67	48	35	28	19	21	7.6	25	e119	102	91
10	89	66	48	35	28	25	21	7.5	50	e118	104	88
11	89	66	49	34	27	24	20	7.2	67	e115	109	86
12	89	65	48	34	26	23	18	6.9	71	e115	111	86
13	89	65	47	34	25	22	18	6.8	77	e112	111	84
14	88	64	46	36	25	22	17	6.5	80	e110	111	83
15	94	63	45	41	24	21	16	6.5	83	e114	111	82
16	94	63	44	41	24	20	15	6.2	87	e116	109	81
17	92	62	44	40	23	21	14	6.0	92	e115	107	80
18	90	61	43	39	23	28	14	5.8	94	e111	104	79
19	90	61	43	39	22	28	13	5.7	98	e108	101	79
20	91	60	42	38	21	26	13	5.6	107	e106	101	78
21	90	59	41	38	20	25	13	5.3	121	e103	97	81
22	89	58	41	38	20	24	12	5.2	126	e101	93	84
23	88	57	41	37	19	23	12	5.0	134	e99	90	84
24	87	57	40	37	19	24	11	4.8	137	e98	88	83
25	86	58	40	36	19	23	11	4.6	135	e101	87	82
26	85	57	40	35	19	22	11	4.5	135	e98	87	82
27	87	55	39	35	19	22	11	4.3	148	e98	88	81
28	85	56	39	35	19	21	11	4.2	150	e104	88	80
29	82	55	38	34	---	20	11	4.0	148	e101	87	79
30	78	54	38	34	---	19	10	3.7	144	e96	86	79
31	75	---	38	33	---	18	---	3.6	---	e95	85	---
TOTAL	2,756	1,891	1,387	1,132	699	652	442	200.5	2,389.4	3,424	3,004	2,556
MEAN	88.9	63.0	44.7	36.5	25.0	21.0	14.7	6.47	79.6	110	96.9	85.2
MAX	94	72	53	41	33	28	21	10	150	139	111	99
MIN	75	54	38	33	19	15	10	3.6	3.7	95	85	78
AC-FT	5,470	3,750	2,750	2,250	1,390	1,290	877	398	4,740	6,790	5,960	5,070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2005, BY WATER YEAR (WY)

MEAN	140	108	83.6	71.6	62.2	52.9	36.0	28.1	69.9	109	135	153
MAX	231	248	220	218	200	225	192	173	196	239	230	233
(WY)	(1960)	(1960)	(1960)	(1958)	(1958)	(1970)	(1958)	(1958)	(1969)	(1970)	(1982)	(1973)
MIN	13.4	5.09	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.21	5.25
(WY)	(1990)	(1991)	(1989)	(1989)	(1989)	(1989)	(1989)	(1989)	(1985)	(1989)	(1989)	(1989)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1952 - 2005

ANNUAL TOTAL	22,071.8	20,532.9	
ANNUAL MEAN	60.3	56.3	88.2
HIGHEST ANNUAL MEAN			189
LOWEST ANNUAL MEAN			3.52
HIGHEST DAILY MEAN	132	Sep 7	292
LOWEST DAILY MEAN	5.4	Jun 3	0.00**
ANNUAL SEVEN-DAY MINIMUM	5.8	Jun 2	0.00**
MAXIMUM PEAK FLOW			292
MAXIMUM PEAK STAGE			6.57
ANNUAL RUNOFF (AC-FT)	43,780	40,730	63,890
10 PERCENT EXCEEDS	100	106	194
50 PERCENT EXCEEDS	56	48	75
90 PERCENT EXCEEDS	17	11	6.6

e Estimated

** Many days during water years 1952, 1953, 1975, 1982, 1989, 1990, 1996.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02291200 LAKE TRAFFORD NEAR IMMOKALEE, FL

LOCATION.--Lat 26°26'08", long 81°29'25", in NW ¼ sec.35, T.46 S., R.28 E., Collier County, Hydrologic Unit 03090204, at county boat ramp dock, on north side of lake and 4.2 mi west of Immokalee.

SURFACE AREA.--1,485 acres.

DRAINAGE AREA.--27 mi², approximately.

PERIOD OF RECORD.--March 1941 to current year. Records of elevations prior to October 1960 are available in files of the U.S. Geological Survey.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 6, 1960, gage was located at sites in the immediate vicinity at same datum. May 15, 1962, to September 30, 1962, auxiliary nonrecording gage in canal at county boat landing, 0.3 mi southeast. October 1, 1962, to November 25, 1968, nonrecording gage at same site and datum. Gage relocated March 30, 1988, because of excessive aquatic growth in ditch causing erroneous record at low stage.

REMARKS.--Lake is landlocked except above an elevation of about 21 ft, when there is overflow to the south into Corkscrew Swamp.

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum elevation, 22.79 ft Sept. 23, 1947; minimum, 15.90 ft estimated, June 6-10, 1962.

EXTREME STAGES FOR CURRENT YEAR.--Maximum elevation, 21.46 ft July 13; minimum, 18.84 ft May 30.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.80	20.23	19.84	19.61	19.35	19.21	19.67	19.30	18.99	21.10	20.99	20.73
2	20.77	20.22	19.83	19.60	19.35	19.19	19.69	19.29	19.18	21.08	21.04	20.72
3	20.75	20.20	19.81	19.59	19.34	19.16	19.68	19.26	19.41	21.05	21.06	20.74
4	20.73	20.19	19.80	19.59	19.32	19.21	19.66	19.25	19.65	21.02	21.04	20.75
5	20.70	20.17	19.78	19.58	19.30	19.21	19.64	19.29	19.74	20.98	21.05	20.73
6	20.68	20.14	19.78	19.58	19.29	19.19	19.63	19.32	19.81	20.95	21.03	20.72
7	20.65	20.12	19.77	19.58	19.28	19.19	19.63	19.30	19.88	20.91	21.06	20.71
8	20.63	20.10	19.77	19.57	19.27	19.20	19.69	19.28	20.08	20.94	21.10	20.69
9	20.60	20.08	19.77	19.55	19.27	19.26	19.67	19.27	20.15	21.31	21.10	20.68
10	20.59	20.06	19.77	19.54	19.26	19.36	19.64	19.25	20.32	21.41	21.11	20.70
11	20.57	20.05	19.75	19.53	19.23	19.37	19.62	19.22	20.55	21.41	21.15	20.67
12	20.57	20.04	19.73	19.52	19.21	19.36	19.61	19.20	20.61	21.41	21.13	20.65
13	20.55	20.03	19.72	19.51	19.20	19.36	19.61	19.17	20.65	21.46	21.10	20.62
14	20.53	20.01	19.70	19.52	19.20	19.35	19.59	19.15	20.68	21.44	21.07	20.59
15	20.51	19.99	19.66	19.52	19.19	19.35	19.55	19.14	20.70	21.43	21.04	20.56
16	20.48	19.98	19.65	19.51	19.18	19.36	19.52	19.13	20.70	21.39	21.02	20.54
17	20.44	19.96	19.64	19.49	19.18	19.46	19.49	19.10	20.69	21.37	20.99	20.51
18	20.42	19.96	19.64	19.47	19.15	19.66	19.48	19.07	20.67	21.33	20.96	20.48
19	20.42	19.95	19.63	19.46	19.12	19.66	19.46	19.05	20.64	21.29	20.93	20.43
20	20.46	19.93	19.61	19.46	19.11	19.67	19.45	19.03	20.64	21.30	20.90	20.41
21	20.44	19.92	19.60	19.45	19.10	19.69	19.43	19.02	20.66	21.29	20.87	20.46
22	20.42	19.91	19.59	19.45	19.09	19.70	19.42	19.00	20.75	21.25	20.85	20.48
23	20.39	19.90	19.59	19.45	19.09	19.71	19.41	19.00	20.98	21.22	20.84	20.48
24	20.38	19.90	19.60	19.43	19.09	19.71	19.37	18.98	21.03	21.19	20.82	20.45
25	20.36	19.90	19.60	19.42	19.14	19.72	19.34	18.96	21.08	21.19	20.78	20.42
26	20.34	19.87	19.66	19.41	19.16	19.72	19.34	18.93	21.09	21.15	20.75	20.40
27	20.32	19.87	19.62	19.41	19.24	19.73	19.36	18.91	21.09	21.11	20.80	20.39
28	20.29	19.87	19.61	19.39	19.23	19.72	19.35	18.88	21.09	21.06	20.84	20.37
29	20.28	19.85	19.61	19.39	---	19.70	19.33	18.85	21.11	21.02	20.82	20.36
30	20.27	19.84	19.60	19.39	---	19.69	19.32	18.84	21.11	21.00	20.79	20.46
31	20.24	---	19.61	19.37	---	19.68	---	18.88	---	20.99	20.76	---
TOTAL	635.58	600.24	610.34	604.34	537.94	603.55	585.65	592.32	613.73	657.05	649.79	616.90
MEAN	20.50	20.01	19.69	19.49	19.21	19.47	19.52	19.11	20.46	21.20	20.96	20.56
MAX	20.80	20.23	19.84	19.61	19.35	19.73	19.69	19.32	21.11	21.46	21.15	20.75
MIN	20.24	19.84	19.59	19.37	19.09	19.16	19.32	18.84	18.99	20.91	20.75	20.36

02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°20'07", long 81°44'59", in SW ¼ sec.31, T.47 S., R.26 E., Lee County, Hydrologic Unit 03090204, on left bank, 4 ft downstream of bridge on Orr Road, 0.3 mi north of Bonita Beach Road, 2.0 mi east of U.S. Highway 41 at Bonita Springs, and 7.4 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1940 to November 1954, February 1987 to current year.

GAGE.--Satellite data collection platform with a water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929. May 1940 to November 1954, water-stage recorder at wooden control on right bank, 1.5 mi east of Bonita Springs (lat 26°20'05", long 81°45'20"). Prior to September 10, 1941, staff gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Days of no flows for the period of record only occurred during the period of May 27 to June 3, 1940.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete water years of discharge (1941-54, 1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.84	4.59	3.26	3.09	2.99	2.93	3.59	2.96	2.86	9.59	9.29	6.72
2	7.79	4.51	3.25	3.09	2.99	2.92	3.50	2.95	3.01	9.50	9.31	6.54
3	7.76	4.43	3.24	3.09	2.99	2.92	3.40	2.94	3.63	9.32	9.21	6.51
4	7.74	4.38	3.22	3.08	3.01	2.94	3.30	2.93	5.25	9.09	9.15	7.06
5	7.73	4.32	3.22	3.07	2.99	2.94	3.22	2.93	5.90	8.88	9.20	6.81
6	7.69	4.20	3.21	3.06	2.99	2.93	3.15	2.92	6.67	8.72	9.26	6.63
7	7.64	4.13	3.20	3.05	2.99	2.93	3.12	2.91	6.71	8.54	9.26	6.45
8	7.57	4.07	3.20	3.05	2.99	2.93	3.22	2.90	6.66	8.45	9.39	6.24
9	7.46	4.00	3.20	3.04	3.01	2.97	3.23	2.89	6.65	9.63	9.33	6.09
10	7.31	3.94	3.20	3.03	2.97	3.01	3.17	2.89	7.28	10.29	9.21	5.92
11	7.17	3.87	3.20	3.03	2.94	3.03	3.11	2.88	8.73	10.48	9.04	5.76
12	7.10	3.80	3.19	3.03	2.94	3.06	3.09	2.87	9.22	10.54	8.84	5.61
13	6.96	3.76	3.18	3.03	2.94	3.07	3.07	2.85	9.39	10.50	8.68	5.47
14	6.80	3.69	3.18	3.03	2.92	3.06	3.06	2.84	9.22	10.45	8.47	5.32
15	6.63	3.65	3.17	3.03	2.91	3.05	3.04	2.84	9.06	10.43	8.27	5.16
16	6.38	3.60	3.15	3.03	2.91	3.04	3.03	2.83	8.86	10.55	8.07	5.00
17	6.15	3.55	3.13	3.03	2.91	3.11	3.03	2.82	8.60	10.82	7.92	4.85
18	5.98	3.51	3.13	3.02	2.91	3.94	3.12	2.82	8.27	10.66	7.68	4.70
19	5.84	3.47	3.12	3.02	2.90	4.13	3.05	2.82	7.92	10.41	7.47	4.55
20	5.70	3.42	3.11	3.01	2.89	4.11	3.02	2.81	7.66	10.14	7.20	4.48
21	5.55	3.39	3.10	3.01	2.89	4.13	3.01	2.79	7.71	9.82	6.96	4.74
22	5.46	3.35	3.09	3.01	2.89	4.13	3.01	2.79	7.84	9.59	6.76	4.85
23	5.36	3.33	3.10	3.02	2.89	4.11	3.02	2.78	8.45	9.36	6.70	4.90
24	5.25	3.32	3.10	3.01	2.88	4.26	3.01	2.79	8.59	9.02	6.70	5.57
25	5.18	3.33	3.11	3.01	2.89	4.27	3.00	2.80	8.70	8.85	6.65	5.48
26	5.10	3.31	3.16	3.00	2.90	4.19	2.99	2.78	8.82	8.72	6.52	5.48
27	5.00	3.30	3.11	3.00	2.92	4.08	2.99	2.78	9.29	8.68	6.65	5.62
28	4.89	3.31	3.10	3.00	2.94	4.00	2.99	2.75	9.49	8.82	7.14	5.45
29	4.81	3.29	3.10	3.00	---	3.87	2.98	2.72	9.73	9.10	7.21	5.46
30	4.73	3.28	3.10	3.00	---	3.77	2.97	2.71	9.65	8.96	7.12	5.43
31	4.66	---	3.10	2.99	---	3.68	---	2.75	---	9.15	6.94	---
TOTAL	197.23	112.10	97.93	93.96	82.29	107.51	93.49	88.04	229.82	297.06	249.60	168.85
MEAN	6.36	3.74	3.16	3.03	2.94	3.47	3.12	2.84	7.66	9.58	8.05	5.63
MAX	7.84	4.59	3.26	3.09	3.01	4.27	3.59	2.96	9.73	10.82	9.39	7.06
MIN	4.66	3.28	3.09	2.99	2.88	2.92	2.97	2.71	2.86	8.45	6.52	4.48

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA
 02291500 IMPERIAL RIVER NEAR BONITA SPRINGS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	68	21	17	14	13	30	14	12	476	441	197
2	287	64	20	16	14	13	27	13	15	465	444	184
3	284	60	20	16	14	13	24	13	33	445	432	182
4	283	58	20	16	15	13	21	13	101	419	426	224
5	282	56	19	16	14	13	19	13	140	396	431	204
6	279	51	19	16	14	13	18	13	194	380	438	190
7	274	48	19	16	14	13	17	13	197	360	438	177
8	268	46	19	16	14	13	20	12	193	351	454	162
9	258	43	19	15	15	14	20	12	192	481	446	152
10	245	41	19	15	14	15	18	12	244	563	433	141
11	233	39	19	15	13	15	17	12	381	587	414	131
12	227	36	19	15	13	16	16	12	434	595	392	121
13	216	35	19	15	13	16	16	12	453	590	375	113
14	203	33	19	15	13	16	16	11	434	583	354	105
15	190	31	18	15	13	15	15	11	416	581	334	96
16	172	30	18	15	13	15	15	11	394	597	314	88
17	156	29	17	15	13	17	15	11	366	632	299	80
18	145	27	17	15	13	42	17	11	333	610	277	72
19	136	26	17	15	12	48	15	11	299	578	259	66
20	127	25	17	15	12	48	15	11	276	543	236	63
21	118	24	17	15	12	48	15	10	281	503	216	75
22	112	23	17	15	12	48	15	10	293	477	200	80
23	107	22	17	15	12	48	15	10	351	449	196	83
24	101	22	17	15	12	53	15	10	365	412	196	119
25	97	22	17	15	12	54	15	10	377	393	192	113
26	93	22	18	15	12	50	14	10	390	379	183	114
27	87	22	17	14	13	46	14	10	442	375	192	122
28	82	22	17	14	13	43	14	9.7	465	390	231	112
29	78	21	17	14	---	39	14	9.1	493	420	236	113
30	74	21	17	14	---	35	14	8.9	484	405	229	111
31	71	---	17	14	---	32	---	9.6	---	425	215	---
TOTAL	5,577	1,067	563	469	368	877	516	348.3	9,048	14,860	9,923	3,790
MEAN	180	35.6	18.2	15.1	13.1	28.3	17.2	11.2	302	479	320	126
MAX	292	68	21	17	15	54	30	14	493	632	454	224
MIN	71	21	17	14	12	13	14	8.9	12	351	183	63
AC-FT	11,060	2,120	1,120	930	730	1,740	1,020	691	17,950	29,470	19,680	7,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	254	86.7	38.3	32.3	26.4	24.0	16.6	9.05	54.1	161	225	319
MAX	1,097	387	219	185	184	226	207	55.4	331	569	709	1,178
(WY)	(1996)	(1996)	(1988)	(1995)	(1998)	(1998)	(1941)	(1941)	(1947)	(1992)	(1995)	(1995)
MIN	7.01	1.73	1.51	1.25	0.82	0.86	0.74	0.72	0.61	1.84	20.8	61.5
(WY)	(1951)	(1943)	(1943)	(1951)	(1949)	(1949)	(1949)	(1950)	(1951)	(1944)	(1942)	(1990)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1940 - 2005

ANNUAL TOTAL	39,265.5	47,406.3	
ANNUAL MEAN	107	130	104
HIGHEST ANNUAL MEAN			273
LOWEST ANNUAL MEAN			24.1
HIGHEST DAILY MEAN	782	Aug 31	632
LOWEST DAILY MEAN	8.1	Jun 22	8.9
ANNUAL SEVEN-DAY MINIMUM	8.2	Jun 18	9.6
MAXIMUM PEAK FLOW			636
MAXIMUM PEAK STAGE			10.85
INSTANTANEOUS LOW FLOW			8.8
ANNUAL RUNOFF (AC-FT)	77,880	94,030	75,680
10 PERCENT EXCEEDS	440	422	310
50 PERCENT EXCEEDS	21	29	21
90 PERCENT EXCEEDS	8.4	13	1.3

** Many days during wate year 1940.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02291510 IMPERIAL RIVER NEAR THE MOUTH AT BONITA SHORES, FL

LOCATION.--Lat 26°20'12", long 81°49'53", T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, right bank, 0.5 mi from mouth of river, 2 mi north of Bonita Beach.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 2002 to September 2005. Discontinued.

GAGE HEIGHT: January 2002 to September 2005. Discontinued.

GAGE.--Acoustic Doppler velocity meter with acoustic stage sensor. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. 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, 951 ft³/s Sept. 20, 2002; maximum negative, 1,090 ft³/s Sept. 26, 2004.

GAGE HEIGHT: Maximum gage height, 3.07 ft Sept. 26, 2004; minimum, -1.35 ft Dec. 28, 2004 and Jan. 20, 2005.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 884 ft³/s Dec. 26; maximum negative, 807 ft³/s Dec. 25.

GAGE HEIGHT: Maximum gage height, 2.10 ft July 10; minimum, -1.35 ft Dec. 28 and Jan 20.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: January 2002 to September 2005. Discontinued.

WATER TEMPERATURE: January 2002 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: Oct. 4-21, Oct. 28-31, Nov. 1-11, Nov. 30, Dec. 1-10, Dec. 21-31, Jan. 1-14, Mar. 6-16, Apr. 3-21, Apr. 24-30, May 1-5, May 22-31, June 1-12, June 21-27, rated good; Nov.12-18, Jan. 15-27, May 6-14, June 13-17, June 28-30, July 1, 2, rated fair; May 15-18, July 3-18, rated poor. Temperature record rated good. Salinity and temperature sensor located 2 ft below NGVD. 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: Maximum recorded, 34.0 ppt June 12, 2002; minimum recorded, 0.0 ppt occurred on several days during the months of June and July 2005.

WATER TEMPERATURE: Maximum recorded, 34.3°C July 16, 2002; minimum recorded, 12.0°C Jan. 19, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 32.4 ppt Jan. 12; minimum recorded, 0.0 ppt occurred on several days during the months of June and July.

WATER TEMPERATURE: Maximum recorded, 33.8°C Aug. 21; minimum recorded, 14.6°C Jan. 25.

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291524 SPRING CREEK HEADWATER NEAR BONITA SPRINGS, FL

LOCATION.--Lat 26°21'42", long 81°47'27", in SE ¼ sec.22, T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, at culvert on State Road 887 (old U.S. Highway 41), 1.8 mi north of Bonita Springs, 4.7 mi upstream from mouth and 5.6 mi south of Estero.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1987 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida State Road Department Bench Mark).

REMARKS.--Records are fair, except for estimated daily values, which are poor. Days of no flow occurred during water years 1989, 1990, 1997.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 17 complete water years of discharge (1989-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.86	6.66	6.59	6.61	6.54	6.66	6.85	6.67	6.77	7.17	7.33	6.93
2	6.85	6.67	6.58	6.60	6.54	6.65	6.86	6.66	7.05	7.09	7.25	6.92
3	6.84	6.65	6.58	6.63	6.53	6.65	6.85	6.65	7.74	7.02	7.36	6.93
4	6.81	6.65	6.58	6.61	6.53	6.67	6.84	6.65	8.27	7.00	7.22	7.11
5	6.79	6.65	6.57	6.61	6.53	6.66	6.82	6.68	7.61	7.02	7.63	7.05
6	6.78	6.65	6.57	6.59	6.52	6.65	6.81	6.68	7.37	6.98	7.38	7.03
7	6.77	6.64	6.57	6.59	6.52	6.65	6.80	6.63	7.32	6.93	7.29	6.99
8	6.76	6.63	6.57	6.59	6.52	6.65	6.86	6.61	7.75	6.96	7.64	6.97
9	6.76	6.63	6.57	6.58	6.52	6.79	6.83	6.60	7.42	8.16	7.37	6.95
10	6.76	6.63	6.57	6.58	6.52	6.97	6.79	6.59	7.96	7.85	7.24	6.93
11	6.76	6.63	6.57	6.58	6.52	6.92	6.75	6.58	9.60	7.44	7.17	6.90
12	6.76	6.64	6.57	6.57	6.52	6.86	6.75	6.57	9.30	7.28	7.16	6.88
13	6.76	6.63	6.57	6.57	6.51	6.82	6.76	6.57	8.90	7.28	7.44	6.88
14	6.75	6.63	6.55	6.58	6.51	6.80	6.74	6.56	8.00	8.35	7.26	6.87
15	6.74	6.63	6.54	6.59	6.51	6.79	6.71	6.56	7.79	7.74	7.18	6.85
16	6.74	6.62	6.54	6.59	6.51	6.77	6.70	6.56	7.50	7.53	7.12	6.84
17	6.73	6.62	6.54	6.58	6.51	7.11	6.69	6.55	7.35	7.57	7.10	6.84
18	6.73	6.64	6.53	6.58	6.50	7.44	6.69	6.55	7.27	7.37	7.04	6.82
19	6.73	6.63	6.53	6.57	6.50	7.19	6.73	6.54	7.18	7.28	7.01	6.81
20	6.71	6.62	6.53	6.57	6.50	7.08	6.75	6.54	7.15	7.36	6.99	6.82
21	6.71	6.61	6.52	6.57	6.50	7.03	6.73	6.53	7.22	7.27	6.95	6.86
22	6.71	6.61	6.52	6.56	6.50	6.97	6.68	6.54	7.26	7.20	6.94	6.86
23	6.70	6.61	6.56	6.57	6.49	6.93	6.69	6.54	7.35	7.20	6.93	6.85
24	6.69	6.60	6.57	6.57	6.50	7.00	6.69	6.54	7.26	7.22	6.91	6.91
25	6.69	6.60	6.60	6.59	6.59	6.95	6.68	6.53	7.17	7.33	6.90	6.88
26	6.69	6.60	6.64	6.59	6.61	6.91	6.68	6.52	7.09	7.17	6.91	6.86
27	6.68	6.60	6.68	6.58	6.65	---	6.74	6.52	7.07	7.10	6.94	6.87
28	6.66	6.60	6.71	6.59	6.67	---	6.74	6.51	7.14	7.15	7.05	6.87
29	6.66	6.60	6.65	6.56	---	6.87	6.70	6.50	7.26	7.32	7.01	6.89
30	6.65	6.60	6.62	6.55	---	6.86	6.67	6.50	7.21	7.24	6.97	6.89
31	6.65	---	6.61	6.55	---	6.86	---	6.55	---	7.35	6.95	---
TOTAL	208.88	198.78	203.90	204.05	182.87	---	202.58	203.78	227.33	226.93	221.64	207.06
MEAN	6.74	6.63	6.58	6.58	6.53	---	6.75	6.57	7.58	7.32	7.15	6.90
MAX	6.86	6.67	6.71	6.63	6.67	---	6.86	6.68	9.60	8.35	7.64	7.11
MIN	6.65	6.60	6.52	6.55	6.49	---	6.67	6.50	6.77	6.93	6.90	6.81

02291524 SPRING CREEK HEADWATER NEAR BONITA SPRINGS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	3.0	1.7	1.8	1.1	2.8	6.5	2.9	5.9	18	20	9.6
2	7.3	3.2	1.6	1.8	1.0	2.6	6.7	2.7	14	15	19	9.3
3	7.1	2.9	1.6	2.2	1.00	2.6	6.5	2.5	42	13	21	9.6
4	6.4	2.9	1.6	1.9	1.0	3.0	6.3	2.6	63	12	18	16
5	5.7	2.9	1.4	1.8	0.94	2.7	6.1	3.1	36	13	30	14
6	5.5	2.8	1.4	1.6	0.90	2.6	5.8	3.1	27	11	22	13
7	5.3	2.6	1.4	1.6	0.92	2.5	5.6	2.3	24	9.5	20	12
8	5.0	2.5	1.4	1.5	0.91	2.6	6.7	1.9	40	10	30	11
9	4.9	2.5	1.4	1.5	0.87	5.5	6.1	1.8	29	53	21	10
10	4.8	2.4	1.4	1.4	0.88	9.3	5.3	1.7	50	39	19	9.5
11	4.8	2.5	1.4	1.4	0.88	8.0	4.6	1.6	170	23	17	8.7
12	4.9	2.5	1.4	1.4	0.85	6.8	4.7	1.6	131	19	17	8.1
13	4.9	2.4	1.3	1.3	0.81	6.0	4.8	1.6	99	20	23	8.1
14	4.6	2.4	1.2	1.5	0.81	5.6	4.3	1.5	49	63	19	7.7
15	4.5	2.4	0.97	1.6	0.80	5.3	3.8	1.5	41	34	17	7.2
16	4.4	2.3	0.97	1.6	0.78	4.9	3.6	1.4	30	26	16	6.9
17	4.3	2.3	0.94	1.5	0.77	15	3.3	1.5	25	28	15	6.9
18	4.2	2.5	0.87	1.4	0.72	23	3.3	1.5	21	21	13	6.4
19	4.2	2.5	0.88	1.4	0.71	15	4.0	1.4	18	19	12	6.1
20	4.0	2.2	0.87	1.4	0.68	12	4.6	1.3	17	21	11	6.4
21	3.9	2.1	0.80	1.3	0.68	11	4.1	1.3	19	19	10	7.3
22	3.9	2.1	0.80	1.3	0.68	9.1	3.1	1.4	20	18	9.9	7.4
23	3.8	2.1	1.2	1.4	0.65	8.4	3.3	1.5	23	18	9.5	7.3
24	3.7	2.0	1.4	1.4	0.71	9.9	3.3	1.4	20	18	9.0	8.8
25	3.5	2.0	1.7	1.6	1.7	8.7	3.1	1.4	18	20	8.7	8.0
26	3.4	1.9	2.4	1.5	1.8	7.8	3.1	1.3	15	17	9.0	7.3
27	3.3	1.9	3.3	1.5	2.5	e7.0	4.4	1.2	14	15	9.8	7.7
28	3.1	1.9	3.9	1.6	3.0	e7.2	4.3	1.1	17	16	14	7.9
29	3.0	1.9	2.6	1.2	---	7.1	3.6	1.1	20	20	12	8.3
30	2.9	1.9	2.1	1.1	---	6.8	2.8	1.1	18	18	11	8.2
31	2.9	---	1.9	1.1	---	6.7	---	1.7	---	21	10	---
TOTAL	141.5	71.5	47.80	46.6	29.05	227.5	137.7	54.0	1,115.9	667.5	492.9	264.7
MEAN	4.56	2.38	1.54	1.50	1.04	7.34	4.59	1.74	37.2	21.5	15.9	8.82
MAX	7.3	3.2	3.9	2.2	3.0	23	6.7	3.1	170	63	30	16
MIN	2.9	1.9	0.80	1.1	0.65	2.5	2.8	1.1	5.9	9.5	8.7	6.1
AC-FT	281	142	95	92	58	451	273	107	2,210	1,320	978	525

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	15.9	6.79	4.28	3.64	3.49	3.20	2.16	1.41	8.36	14.7	19.3	21.4
MAX	95.9	26.5	14.1	9.45	15.3	11.8	5.56	6.41	37.2	42.0	46.1	52.6
(WY)	(1996)	(1999)	(1998)	(1995)	(1998)	(1998)	(1993)	(1991)	(2005)	(1999)	(1995)	(1995)
MIN	4.05	1.63	1.02	0.71	0.28	0.11	0.11	0.18	0.43	0.90	5.16	8.82
(WY)	(1990)	(1990)	(1993)	(1997)	(1997)	(1997)	(1990)	(1989)	(1988)	(1988)	(1989)	(2005)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	2,109.06	3,296.65	
ANNUAL MEAN	5.76	9.03	8.89
HIGHEST ANNUAL MEAN			17.2
LOWEST ANNUAL MEAN			3.18
HIGHEST DAILY MEAN	92	170	465
LOWEST DAILY MEAN	0.72	0.65	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.83	0.69	0.00**
MAXIMUM PEAK FLOW		220	557
MAXIMUM PEAK STAGE		10.01	11.09
INSTANTANEOUS LOW FLOW		0.63	0.00**
ANNUAL RUNOFF (AC-FT)	4,180	6,540	6,440
10 PERCENT EXCEEDS	13	20	19
50 PERCENT EXCEEDS	3.0	4.0	3.8
90 PERCENT EXCEEDS	1.3	1.1	0.75

e Estimated

** Many days during water years 1989, 1990, 1997.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291580 NORTH BRANCH ESTERO RIVER AT ESTERO, FL

LOCATION.--Lat 26°26'30", long 81°47'45", in SW ¼ SW ¼ NE ¼ sec.27, T.46 S., R.25 E., Lee County, Hydrologic Unit 03090204, on right bank behind house at east end of Broadway Road, 0.95 mi east of U.S. Highway 41, 0.9 mi upstream from confluence with South Branch Estero River and 5.6 mi upstream from mouth of Estero River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1987 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. No flow many days during the water year.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.05	7.40	7.00	7.08	6.84	6.91	7.84	7.37	8.03	10.58	9.07	8.07
2	9.24	7.38	6.99	7.07	6.84	6.90	7.85	7.35	8.97	10.01	8.89	8.04
3	9.33	7.36	6.97	7.05	6.83	6.93	7.86	7.29	9.97	9.67	8.79	8.04
4	9.19	7.34	6.96	7.02	6.84	7.17	7.80	7.28	11.02	9.49	8.70	8.32
5	8.98	7.32	6.94	7.00	6.83	7.23	7.75	7.28	10.55	9.69	8.91	8.25
6	8.82	7.29	6.92	6.97	6.83	7.21	7.72	7.25	10.36	9.44	8.83	8.16
7	8.73	7.26	6.91	6.95	6.82	7.17	7.74	7.22	9.85	9.19	8.84	8.07
8	8.58	7.23	6.90	6.94	6.82	7.14	7.85	7.20	9.52	9.16	9.04	7.99
9	8.45	7.19	6.98	6.90	6.82	7.43	7.84	7.13	9.34	11.18	9.05	7.92
10	8.35	7.15	6.87	6.88	6.83	7.78	7.75	7.05	10.35	11.15	9.00	7.86
11	8.30	7.12	6.88	6.87	6.82	7.73	7.66	7.06	12.57	10.89	9.37	7.80
12	8.37	7.11	6.87	6.87	6.82	7.68	7.65	7.09	12.70	10.72	9.12	7.74
13	8.27	7.10	6.87	6.86	6.82	7.62	7.65	7.10	12.17	10.46	9.29	7.69
14	8.20	7.10	6.87	6.88	6.82	7.58	7.59	7.14	11.56	10.26	9.20	7.63
15	8.14	7.11	6.86	6.90	6.81	7.54	7.54	7.18	11.08	10.21	8.97	7.58
16	8.07	7.11	6.86	6.89	6.81	7.51	7.48	7.12	11.49	9.92	8.77	7.53
17	8.00	7.11	6.86	6.87	6.81	8.48	7.43	7.03	11.11	9.66	8.58	7.50
18	7.96	7.10	6.86	6.90	6.81	9.97	7.36	7.03	10.60	9.39	8.42	7.47
19	7.92	7.10	6.86	6.94	6.81	9.09	7.26	6.98	10.11	9.41	8.29	7.44
20	7.89	7.09	6.85	6.87	6.81	8.67	7.23	6.99	9.75	10.29	8.16	7.47
21	7.86	7.08	6.85	6.86	6.81	8.36	7.19	7.25	9.57	10.11	8.07	7.65
22	7.83	7.06	6.85	6.86	6.80	8.24	7.20	7.19	9.67	9.83	8.06	7.80
23	7.78	7.06	6.89	6.87	6.80	8.20	7.20	7.19	9.77	9.51	8.22	7.76
24	7.72	7.04	6.89	6.85	6.80	8.23	7.18	7.16	9.86	9.41	8.22	7.86
25	7.68	7.04	6.91	6.85	6.88	8.19	7.12	7.07	10.46	9.71	8.13	7.80
26	7.62	7.06	6.92	6.85	6.88	8.12	7.04	6.96	10.33	11.13	8.13	7.73
27	7.58	7.05	6.90	6.84	6.92	8.03	7.28	6.82	10.43	10.54	8.32	7.71
28	7.53	7.06	6.95	6.84	6.91	7.99	7.45	6.80	10.74	10.09	8.65	7.68
29	7.49	7.05	7.06	6.84	---	8.00	7.40	6.92	10.38	9.82	8.46	7.68
30	7.46	7.02	7.09	6.84	---	7.93	7.37	6.98	10.73	9.45	8.31	7.83
31	7.43	---	7.09	6.84	---	7.88	---	7.12	---	9.27	8.18	---
TOTAL	253.82	214.49	214.48	214.05	191.24	242.91	225.28	220.60	313.04	309.64	268.04	234.07
MEAN	8.19	7.15	6.92	6.90	6.83	7.84	7.51	7.12	10.43	9.99	8.65	7.80
MAX	9.33	7.40	7.09	7.08	6.92	9.97	7.86	7.37	12.70	11.18	9.37	8.32
MIN	7.43	7.02	6.85	6.84	6.80	6.90	7.04	6.80	8.03	9.16	8.06	7.44

02291580 NORTH BRANCH ESTERO RIVER AT ESTERO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	0.03	0.00	0.00	0.00	0.00	5.6	1.2	12	92	32	8.9
2	26	0.00	0.00	0.00	0.00	0.00	5.6	1.1	29	66	27	8.4
3	28	0.00	0.00	0.00	0.00	0.01	5.7	0.77	72	53	24	8.3
4	25	0.00	0.00	0.00	0.00	0.32	5.0	0.73	115	46	22	13
5	19	0.00	0.00	0.00	0.00	0.50	4.4	0.71	91	54	27	12
6	16	0.00	0.00	0.00	0.00	0.45	4.1	0.59	82	44	25	10
7	14	0.00	0.00	0.00	0.00	0.33	4.3	0.48	60	36	26	8.8
8	11	0.00	0.00	0.00	0.00	0.25	5.6	0.41	47	35	31	7.6
9	8.9	0.00	0.00	0.00	0.00	1.9	5.6	0.23	41	124	31	6.5
10	7.3	0.00	0.00	0.00	0.00	4.8	4.5	0.07	84	122	30	5.8
11	6.6	0.00	0.00	0.00	0.00	4.2	3.4	0.07	220	107	42	5.0
12	7.6	0.00	0.00	0.00	0.00	3.6	3.4	0.13	228	98	34	4.3
13	6.2	0.00	0.00	0.00	0.00	3.0	3.3	0.16	189	86	39	3.7
14	5.3	0.00	0.00	0.00	0.00	2.7	2.8	0.23	147	77	36	3.2
15	4.5	0.00	0.00	0.00	0.00	2.4	2.3	0.34	118	75	29	2.6
16	3.7	0.00	0.00	0.00	0.00	2.1	1.8	0.21	143	63	24	2.3
17	3.1	0.00	0.00	0.00	0.00	25	1.5	0.04	120	52	19	2.0
18	2.6	0.00	0.00	0.00	0.00	65	1.1	0.03	93	42	15	1.8
19	2.3	0.00	0.00	0.03	0.00	33	0.65	0.00	71	44	13	1.6
20	2.1	0.00	0.00	0.00	0.00	21	0.51	0.20	56	78	10	1.8
21	1.9	0.00	0.00	0.00	0.00	14	0.36	0.62	49	71	8.8	3.4
22	1.7	0.00	0.00	0.00	0.00	12	0.41	0.37	53	59	8.8	5.0
23	1.3	0.00	0.00	0.00	0.00	11	0.41	0.40	57	47	11	4.5
24	1.0	0.00	0.00	0.00	0.00	12	0.35	0.31	60	43	11	5.7
25	0.80	0.00	0.00	0.00	0.00	11	0.19	0.09	86	57	9.9	5.0
26	0.55	0.00	0.00	0.00	0.00	9.6	0.05	0.01	80	121	9.9	4.2
27	0.39	0.00	0.00	0.00	0.00	8.2	0.83	0.00	85	90	13	4.0
28	0.26	0.00	0.00	0.00	0.00	7.5	1.7	0.00	100	70	21	3.7
29	0.17	0.00	0.00	0.00	---	7.8	1.4	0.00	82	59	16	3.7
30	0.12	0.00	0.00	0.00	---	6.8	1.2	0.00	100	45	13	5.5
31	0.07	---	0.00	0.00	---	6.1	---	0.22	---	39	11	---
TOTAL	227.46	0.03	0.00	0.03	0.00	276.56	78.06	9.72	2,770	2,095	669.4	162.3
MEAN	7.34	0.00	0.00	0.00	0.00	8.92	2.60	0.31	92.3	67.6	21.6	5.41
MAX	28	0.03	0.00	0.03	0.00	65	5.7	1.2	228	124	42	13
MIN	0.07	0.00	0.00	0.00	0.00	0.00	0.05	0.00	12	35	8.8	1.6
AC-FT	451	0.06	0.00	0.06	0.00	549	155	19	5,490	4,160	1,330	322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	26.1	7.67	2.50	1.45	3.03	1.83	0.30	0.05	8.69	11.7	16.2	30.8
MAX	153	59.7	23.6	11.2	49.2	21.0	2.60	0.31	92.3	67.6	89.2	104
(WY)	(1996)	(1999)	(1998)	(1998)	(1998)	(1998)	(2005)	(2005)	(2005)	(2005)	(2004)	(2001)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1990)	(1990)	(1990)	(1990)	(1990)	(1988)	(1989)	(1988)	(1989)	(1989)	(1989)	(1989)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	6,548.76	6,288.56	
ANNUAL MEAN	17.9	17.2	9.47
HIGHEST ANNUAL MEAN			24.1
LOWEST ANNUAL MEAN			0.00**
HIGHEST DAILY MEAN	232	Sep 7	228
LOWEST DAILY MEAN	0.00	Apr 28	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 10	0.00
MAXIMUM PEAK FLOW			252
MAXIMUM PEAK STAGE			12.99
ANNUAL RUNOFF (AC-FT)	12,990	12,470	6,860
10 PERCENT EXCEEDS	68	61	20
50 PERCENT EXCEEDS	0.90	1.7	0.07
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1988-2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02291597 SOUTH BRANCH ESTERO RIVER AT ESTERO, FL

LOCATION.--Lat 26°25'43", long 81°47'36", in NW ¼ sec.34, T.46 S., R.25 E., Lee County, Hydrologic Unit 03090204, near left bank on downstream culvert headwall on Corkscrew Road, 1.1 mi east of U.S. Highway 41 at Estero and 3.9 mi upstream from mouth of Estero River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1987 to current year.

REVISED RECORDS.--WDR FL-2000-2A,1999.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. Water years 2000 and 2001 at datum 0.30 ft higher than current datum. Water years 1987-1999 at datum near 0.30 ft higher than current datum (original benchmark destroyed during road construction in July 1999). Days of no flow occurred during water years 1996, 1999, 2000, 2005.

ANNUAL MEAN AND ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 16 complete water years of discharge (1989-98, 2000-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.64	2.84	2.74	2.65	2.61	2.74	3.10	3.36	3.57	5.08	4.28	3.63
2	3.62	2.84	2.73	2.65	2.61	2.72	3.15	3.31	3.89	4.86	4.25	3.55
3	3.55	2.84	2.72	2.64	2.61	2.72	3.17	3.28	4.90	4.61	4.59	3.59
4	3.49	2.84	2.72	2.64	2.61	2.76	3.13	3.27	5.98	4.42	4.51	4.06
5	3.43	2.83	2.70	2.64	2.61	2.74	3.10	3.27	6.00	4.38	4.74	3.88
6	3.36	2.82	2.70	2.64	2.61	2.73	3.10	3.26	5.98	4.21	4.64	3.68
7	3.31	2.82	2.69	2.64	2.61	2.72	3.10	3.24	5.58	3.99	4.66	3.57
8	3.26	2.81	2.69	2.63	2.61	2.73	3.23	3.21	5.18	3.91	5.00	3.51
9	3.22	2.80	2.68	2.63	2.62	2.98	3.20	3.19	4.90	5.69	4.90	3.47
10	3.19	2.79	2.68	2.62	2.61	3.07	3.16	3.17	5.43	6.03	4.70	3.44
11	3.16	2.78	2.67	2.62	2.59	2.95	3.21	3.15	7.51	5.78	4.55	3.39
12	3.18	2.78	2.65	2.62	2.58	2.90	3.29	3.15	7.25	5.38	4.55	3.32
13	3.15	2.79	2.64	2.62	2.59	2.87	3.21	3.15	6.80	5.09	5.10	3.24
14	3.12	2.79	2.64	2.64	2.59	2.85	3.17	3.15	6.25	5.41	4.93	3.18
15	3.08	2.79	2.63	2.65	2.59	2.85	3.15	3.18	5.98	5.53	4.65	3.11
16	3.05	2.78	2.62	2.65	2.59	2.84	3.13	3.16	5.48	5.47	4.43	3.08
17	3.02	2.78	2.61	2.64	2.59	3.62	3.12	3.13	5.05	5.34	4.19	3.02
18	3.00	2.77	2.61	2.63	2.59	---	3.12	3.09	4.66	5.05	3.94	2.99
19	2.98	2.77	2.61	2.62	2.58	---	3.12	3.09	4.33	4.84	3.78	2.96
20	2.97	2.77	2.61	2.62	2.58	---	3.13	3.08	4.12	4.97	3.64	3.01
21	2.96	2.76	2.61	2.63	2.58	---	3.13	3.07	4.13	4.75	3.53	3.17
22	2.94	2.76	2.61	2.62	2.58	3.27	3.13	3.05	4.21	4.56	3.46	3.19
23	2.92	2.76	2.63	2.64	2.58	3.22	3.14	3.03	4.51	4.38	3.37	3.17
24	2.90	2.76	2.65	2.62	2.58	3.31	3.13	3.01	4.64	4.35	3.37	3.29
25	2.89	2.77	2.68	2.62	2.72	3.29	3.13	2.99	4.65	4.49	3.42	3.25
26	2.88	2.76	2.72	2.62	2.70	3.23	3.14	2.97	4.53	4.78	3.48	3.19
27	2.88	2.76	2.68	2.62	2.78	3.18	3.31	2.95	4.68	4.82	3.65	3.26
28	2.86	2.76	2.66	2.62	2.77	3.19	---	2.93	5.10	4.73	4.17	3.29
29	2.85	2.75	2.66	2.61	---	3.18	---	2.91	4.96	4.63	4.15	3.26
30	2.85	2.74	2.65	2.61	---	3.14	3.37	2.89	5.07	4.46	3.96	3.30
31	2.85	---	2.65	2.61	---	3.12	---	2.97	---	4.36	3.78	---
TOTAL	96.56	83.61	82.54	81.51	73.27	---	---	96.66	155.32	150.35	130.37	100.05
MEAN	3.11	2.79	2.66	2.63	2.62	---	---	3.12	5.18	4.85	4.21	3.33
MAX	3.64	2.84	2.74	2.65	2.78	---	---	3.36	7.51	6.03	5.10	4.06
MIN	2.85	2.74	2.61	2.61	2.58	---	---	2.89	3.57	3.91	3.37	2.96

02291597 SOUTH BRANCH ESTERO RIVER AT ESTERO, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	1.4	1.3	1.0	0.68	1.4	3.9	3.0	9.5	69	33	15
2	16	1.3	1.3	0.99	0.68	1.3	4.6	2.3	16	60	31	12
3	14	1.4	1.3	0.99	0.68	1.3	4.8	2.0	56	51	41	14
4	13	1.4	1.3	0.97	0.69	1.5	4.0	1.9	92	45	37	28
5	11	1.3	1.2	0.96	0.68	1.4	3.5	1.9	93	43	46	22
6	8.8	1.3	1.2	0.96	0.68	1.3	3.3	1.8	91	38	42	16
7	7.5	1.3	1.2	0.94	0.66	1.3	3.3	1.6	74	31	43	13
8	6.5	1.3	1.2	0.92	0.66	1.3	5.2	1.3	60	28	58	11
9	5.9	1.2	1.1	0.88	0.73	4.0	4.6	1.2	50	89	54	9.6
10	5.2	1.2	1.1	0.87	0.69	4.4	3.9	1.1	72	103	45	8.8
11	4.7	1.2	1.1	0.85	0.60	2.8	4.6	0.97	173	92	38	7.5
12	5.0	1.2	1.0	0.85	0.57	2.4	6.1	0.96	164	77	39	6.0
13	4.6	1.3	0.98	0.80	0.57	2.2	4.4	0.94	150	66	65	4.6
14	4.0	1.3	0.95	0.91	0.57	2.1	3.5	0.95	127	78	59	3.6
15	3.5	1.3	0.93	0.96	0.57	2.1	3.1	1.2	114	83	48	2.7
16	3.0	1.3	0.88	0.96	0.57	2.0	2.7	1.0	92	80	39	2.3
17	2.7	1.2	0.84	0.88	0.58	2.2	2.4	0.87	75	75	32	1.8
18	2.5	1.2	0.85	0.82	0.59	e37	2.2	0.65	60	64	24	1.4
19	2.3	1.2	0.84	0.79	0.55	e28	2.1	0.62	49	57	19	1.2
20	2.2	1.2	0.84	0.79	0.55	e19	2.0	0.59	41	62	15	1.6
21	2.1	1.2	0.84	0.82	0.55	e11	2.0	0.53	41	54	12	3.4
22	1.9	1.2	0.84	0.79	0.55	8.5	1.9	0.48	43	47	9.8	3.6
23	1.8	1.3	0.97	0.88	0.55	7.4	1.8	0.39	53	42	7.4	3.2
24	1.7	1.3	1.1	0.79	0.55	9.5	1.6	0.32	56	41	7.4	5.3
25	1.6	1.3	1.3	0.79	1.4	8.8	1.5	0.27	56	45	8.6	4.5
26	1.5	1.3	1.5	0.78	1.2	7.2	1.4	0.21	52	55	10	3.5
27	1.5	1.3	1.2	0.78	1.7	5.9	3.2	0.16	57	56	15	4.8
28	1.4	1.3	1.1	0.77	1.6	5.9	e3.3	0.12	71	52	31	5.2
29	1.4	1.3	1.1	0.76	---	5.7	e3.2	0.08	65	47	31	4.7
30	1.4	1.3	1.0	0.75	---	4.7	3.4	0.05	69	40	25	5.6
31	1.4	---	1.0	0.72	---	4.3	---	0.24	---	36	19	---
TOTAL	156.1	38.3	33.36	26.72	20.65	217.7	97.5	29.70	2,221.5	1,806	984.2	225.9
MEAN	5.04	1.28	1.08	0.86	0.74	7.02	3.25	0.96	74.0	58.3	31.7	7.53
MAX	16	1.4	1.5	1.0	1.7	37	6.1	3.0	173	103	65	28
MIN	1.4	1.2	0.84	0.72	0.55	1.3	1.4	0.05	9.5	28	7.4	1.2
AC-FT	310	76	66	53	41	432	193	59	4,410	3,580	1,950	448

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	29.7	10.6	3.93	3.12	4.93	3.76	1.54	0.77	10.1	19.9	33.3	41.1
MAX	220	59.5	28.6	13.6	57.4	31.5	8.66	4.69	74.0	60.7	126	142
(WY)	(1996)	(1999)	(1998)	(1998)	(1998)	(1998)	(1987)	(1987)	(2005)	(1992)	(1995)	(1995)
MIN	4.87	0.61	0.30	0.29	0.10	0.10	0.07	0.01	0.17	0.85	2.60	4.91
(WY)	(1989)	(1993)	(1991)	(1997)	(1997)	(1997)	(2000)	(2000)	(1988)	(2000)	(1989)	(1990)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	5,766.64	5,857.63	
ANNUAL MEAN	15.8	16.0	13.3
HIGHEST ANNUAL MEAN			33.6
LOWEST ANNUAL MEAN			2.03
HIGHEST DAILY MEAN	195	173	410
LOWEST DAILY MEAN	0.15	0.05	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.18	0.16	0.00**
MAXIMUM PEAK FLOW		212	440
MAXIMUM PEAK STAGE		8.28	12.60
INSTANTANEOUS LOW FLOW		0.03	0.00**
ANNUAL RUNOFF (AC-FT)	11,440	11,620	9,670
10 PERCENT EXCEEDS	68	56	40
50 PERCENT EXCEEDS	1.9	2.1	2.0
90 PERCENT EXCEEDS	0.64	0.69	0.22

e Estimated

** Many days during water years 1996, 1999, 2000.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

262043081513200 FISH TRAP BAY NEAR BONITA BEACH, FL

LOCATION.--Lat 26°27'50", long 81°54'44", T.47 S., R.25 E., Lee County, Hydrologic Unit 03090204, east bank of connection between Fishtrap Bay and Big Hickory Bay, 0.25 mi northwest of Imperial River, 2 mi north of Bonita Beach.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: January 2002 to September 2005. Discontinued.

WATER TEMPERATURE: January 2002 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following period: July 22-27, rated good. Temperature record rated good. 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 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: Maximum recorded, 35.8 ppt May 18, 2002 and June 10, 2002; minimum recorded, 0.3 ppt Oct. 2, 3, 2003, and Sept. 3,4, 2004. (Corrected).

WATER TEMPERATURE: Maximum recorded, 35.1°C July 16, 2002; minimum recorded, 9.0°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 33.6 ppt Feb. 6; minimum recorded, 1.6 ppt June 1.

WATER TEMPERATURE: Maximum recorded, 34.6°C July 27, Aug. 10,12; minimum recorded, 13.8°C Feb. 12.

262136081512801 BIG HICKORY PASS BRIDGE NEAR ESTERO ISLAND, FL

LOCATION.--Lat 26°21'36", long 81°51'28", in sec. 24, T.47 S., R.24 E., Lee County, Hydrologic Unit 03090204, south bank of Big Hickory Pass west of bridge fenders, 0.8 mi east of the Gulf of Mexico, 2 mi north of Bonita Beach.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 2002 to September 2005. Discontinued.

GAGE HEIGHT: January 2002 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with pressure transducer and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. 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/>.

EXTREME FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 4,710 ft³/s Dec. 26, 2004; maximum negative, 11,900 ft³/s Apr. 12, 2004.

GAGE HEIGHT: Maximum gage height, 3.51 ft July 10, 2005; minimum, -2.75 ft Nov. 4, 2002.

EXTREME FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 4,710 ft³/s Dec. 26; maximum negative, 7,130 ft³/s July 10.

GAGE HEIGHT: Maximum gage height, 3.51 ft July 10; minimum, -1.47 ft Dec. 12.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): October 2001 to September 2005. Discontinued.

SALINITY (BOTTOM): October 2001 to August 2004. Discontinued.

WATER TEMPERATURE (TOP): October 2001 to September 2005. Discontinued.

WATER TEMPERATURE (BOTTOM): October 2001 to August 2004. Discontinued.

INSTRUMENTATION.--Water-quality monitor. Water-quality monitor with top and bottom sensors until September 30, 2004.

REMARKS.--Salinity record rated excellent. Temperature record rated good. Salinity and temperature sensors located at -4.5 ft NGVD (TOP) and -6.5 ft NGVD (BOTTOM). Daily values are not published for this site. During periods of missing record, values may be higher or lower than listed extremes. 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, 38.7 ppt May 17, 18, 2002; minimum recorded, 7.9 ppt Oct. 1, 2003.

SALINITY (BOTTOM): Maximum recorded, 38.0 ppt June 6, 2002; minimum recorded, 11.3 ppt Oct. 1, 2003.

WATER TEMPERATURE (TOP): Maximum recorded, 34.5°C July 29, 2005; minimum recorded, 13.3°C Jan. 9, 2002.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.1°C July 20, 2002; minimum recorded, 13.4°C Jan. 9, 2002.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 34.8 ppt on many days during the year; minimum recorded, 9.7 ppt June 14.

WATER TEMPERATURE (TOP): Maximum recorded, 34.5°C July 29; minimum recorded, 13.4°C Dec. 16.

262415081525000 BIG CARLOS PASS BRIDGE AT ESTERO ISLAND, FL

LOCATION.--Lat 26°24'15", long 81°52'50", T.47 S., R.24 E., Lee County, Hydrologic Unit 03090204, on bridge fenders on Big Carlos Pass Bridge, 14 mi south of Fort Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 2002 to September 2005. Discontinued.

GAGE HEIGHT: January 2002 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with pressure transducer, acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Daily values are not published for this site. During periods of missing record, values may be higher or lower than the listed extremes.

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, 75,000 ft³/s Sept. 6, 2002; maximum negative, 106,000 ft³/s Mar. 16, 2003.

GAGE HEIGHT: Maximum gage height, 3.46 ft July 10, 2005; minimum, -2.11 ft Feb. 18, 2004.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 61,900 ft³/s June 22; maximum negative, 63,400 ft³/s May 1.

GAGE HEIGHT: Maximum gage height, 3.46 ft July 10; minimum, -1.78 ft Jan. 10.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP, BOTTOM): January 2002 to September 2005. Discontinued.

WATER TEMPERATURE (TOP, BOTTOM): January 2002 to September 2005. Discontinued.

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

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Nov. 29, 30, Dec. 1, rated good. Salinity (BOTTOM) record rated excellent except for the following periods: Dec. 15-31, Jan. 1-5, rated good. Temperature (TOP and BOTTOM) record rated good. Salinity and temperature sensors located at -2.50 ft NGVD (TOP) and -7.30 ft NGVD (BOTTOM). During periods of missing record, values may be higher or lower than the listed extremes. 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, 37.4 ppt June 6, 2002; minimum recorded, 5.4 ppt June 13, 2005.

SALINITY (BOTTOM): Maximum recorded, 39.9 ppt June 4, 2002; minimum recorded, 8.2 ppt June 12, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C occurring over multiple days during the period of record; minimum recorded, 11.2°C Jan. 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.4°C Aug. 12, 2005; minimum recorded, 11.3°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 35.0 ppt occurring over multiple days in February; minimum recorded, 5.4 ppt June 13.

SALINITY (BOTTOM): Maximum recorded, 35.9 ppt Jan. 4; minimum recorded, 8.2 ppt June 12.

WATER TEMPERATURE (TOP): Maximum recorded, 33.4°C July 6; minimum recorded, 13.5°C Dec. 15.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.4°C Aug. 12; minimum recorded, 13.5°C Dec. 15.

02291610 ESTERO RIVER NEAR THE MOUTH NEAR ESTERO, FL

LOCATION.--Lat 26°26'07", long 81°51'02", T.46 S., R.24 E., Lee County, Hydrologic Unit 03090204, left bank, 0.8 mi from mouth of river, 1.5 mi east of Mound Key, 13 mi south of Ft. Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: February 2002 to September 2005. Discontinued.

GAGE HEIGHT: October 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is arbitrary.

REMARKS.--Records fair. 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/>.

EXTREME FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge, 645 ft³/s Oct. 1, 2003; maximum negative, 1,020 ft³/s Sept. 26, 2004.

GAGE HEIGHT: Maximum gage height, 4.38 ft Sept. 26, 2004; minimum, -0.92 ft Mar. 5, 2002.

EXTREME FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 602 ft³/s June 12; maximum negative, 1,000 ft³/s Sept. 21.

GAGE HEIGHT: Maximum gage height, 3.54 ft July 10; minimum, -0.56 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: October 2001 to September 2005. Discontinued.

WATER TEMPERATURE: October 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent. Temperature record rated good. Elevation of the salinity and temperature sensors is -0.3 ft arbitrary datum. 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 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: Maximum recorded, 40.1 ppt June 6, 2002; minimum recorded, 0.1 ppt Sept. 29, 30, 2003, and Oct. 1-4, 2003.

WATER TEMPERATURE: Maximum recorded, 36.3°C Sept. 11, 2005; minimum recorded, 9.6°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 33.8 ppt Jan. 12, 13; minimum recorded, 0.2 ppt June 11-18 and July 10-28.

WATER TEMPERATURE: Maximum recorded, 36.3°C Sept. 11; minimum recorded, 11.9°C Dec. 16.

262620081523700 ESTERO BAY NEAR HORSESHOE KEYS, FL

LOCATION.--Lat 26°26'20", long 81°52'37", in T.46S., R.24 E., Lee County, Hydrologic Unit 03090204, at Horseshoe Keys, .8 mi southwest from Mullock Creek, 11 mi southwest of Fort Myers.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--During periods of missing record, values may be higher or lower than the listed extremes. Daily values are not published for this site. 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.--

GAGE HEIGHT: Maximum gage height, 5.14 ft Aug. 13, 2004; minimum, 1.56 ft Mar. 4, 5, 2002.

EXTREMES FOR CURRENT YEAR.--

GAGE HEIGHT: Maximum gage height, 3.37 ft May 21; minimum, 1.46 ft Dec. 13.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: October 2001 to September 2005. Discontinued

WATER TEMPERATURE: October 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: Oct. 2-31, Nov. 1, 2, 18-30, Dec. 1-31, Jan. 1-6, 19-28, Apr. 19-30, May 1-11, 21-31, June 1-11, 18, 19, July 31, Aug. 1-9, 12-15, rated good; Nov. 3, 4, June 12-16, 20, Sept. 16, 17, rated fair; and June 21-25, Sept. 18-25, rated poor. Temperature record rated good. Salinity and temperature sensors are located at 1.21 ft NGVD. During periods of missing record, values may have be higher or lower than the listed extremes. Daily values are not published for this site. Salinity and temperature 15 minutes 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.--

SALINITY: Maximum recorded, 37.5 ppt June 7, 2002; minimum recorded, 2.2 ppt, June 13, 2005.

WATER TEMPERATURE: Maximum recorded, 35.7°C Aug. 15, 2005; minimum recorded, 7.2°C Jan. 28, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 34.4 ppt May 21; minimum recorded, 2.2 ppt June 13.

WATER TEMPERATURE: Maximum recorded, 35.7°C Aug. 15; minimum recorded, 12.1°C Jan. 24.

02291655 MULLOCK CREEK NEAR THE MOUTH NEAR ESTERO, FL

LOCATION.--Lat 26°27'50", long 81°51'57", T.46 S., R.23 E., Lee County, Hydrologic Unit 03090204, near right bank, 450 ft from the mouth of river, 11 mi south of Ft. Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: January 2002 to September 2005. Discontinued.

GAGE HEIGHT: October 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--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, 2,170 ft³/s Sept. 6, 2002; maximum negative, 1,640 ft³/s Feb. 27, 2005.

GAGE HEIGHT: Maximum gage height, 4.51 ft Sept. 26, 2004; minimum, -1.74 ft Dec. 15, 2004.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 2,080 ft³/s June 11; maximum negative, 1,640 ft³/s Feb. 27.

GAGE HEIGHT: Maximum gage height, 3.33 ft July 10; minimum, -1.74 ft Dec. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY: October 2001 to September 2005. Discontinued.

WATER TEMPERATURE: October 2001 to September 2005. Discontinued.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity record rated excellent except for the following periods: Dec. 22-31, Jan. 1-6, Mar. 3, 4, Apr. 23-30, May 1-12, Aug 18-31, Sept. 1-19, rated good. Temperature record rated good. Salinity and temperature sensor located at -1.34 ft NGVD. 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: Maximum recorded, 37.4 ppt June 8, 2002; minimum recorded, 0.2 ppt occurred on several days during the months of Sept. 2003, 2004, and Oct. 2003.

WATER TEMPERATURE: Maximum recorded, 34.1°C July 16, 2002, and July 21, 2003; minimum recorded, 10.2°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY: Maximum recorded, 32.8 ppt Feb. 10; minimum recorded, 0.3 ppt on several days during the months of June, July, and Aug.

WATER TEMPERATURE: Maximum recorded, 33.6°C Aug. 21; minimum recorded, 13.0°C Feb. 16.

262727081571300 MATANZAS PASS BRIDGE AT FORT MYERS BEACH, FL

LOCATION.--Lat 26°27'27", long 81°57'13", T.46 S., R.23 E., Lee County, Hydrologic Unit 03090204, on bridge fenders on Matanzas Pass Bridge, 300 ft from northeast bank of Matanzas Pass, and 11 mi southwest of Fort Myers.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: February 2002 to September 2005. Discontinued.

GAGE HEIGHT: December 2001 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. 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, 35,100 ft³/s Aug. 13, 2004; maximum negative, 59,400 ft³/s Aug. 13, 2004.

GAGE HEIGHT: Maximum gage height, 5.92 ft Aug. 13, 2004; minimum, -2.95 ft Feb. 15, 2005.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge, 19,900 ft³/s June 1; maximum negative, 25,900 ft³/s July 7.

GAGE HEIGHT: Maximum gage height, 3.75 ft July 10; minimum, -2.95 ft Feb. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP AND BOTTOM): December 2001 to September 2005. Discontinued.

WATER TEMPERATURE (TOP AND BOTTOM): December 2001 to September 2005. Discontinued.

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

REMARKS.--Salinity (TOP) record rated excellent except for the following periods: Mar. 9-19, Aug. 24-31, and Sept. 1-16, rated good; Mar. 20-28, rated fair; and Mar. 29, 30, Apr. 1-21, rated poor. Salinity (BOTTOM) record rated excellent except for the following periods: Nov. 4-30, Dec. 1, 27-31, Jan. 1-5, Mar. 12-31, Apr. 29, 30, May 1-31, June 1-30, July 1-31, Aug. 1, 2, rated good; Apr. 1-15, rated fair; and Apr. 16-28, rated poor. Temperature (TOP AND BOTTOM) record rated good. Salinity-temperature sensors located at -2.00 NGVD (TOP) and -6.00 NGVD (BOTTOM). Daily values are not published for this site. During periods of missing records, values may be higher or lower than the listed extremes. 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, 37.1 ppt May 31, 2002, and June 1, 2002; minimum recorded, 10.9 ppt June 13, 2005.

SALINITY (BOTTOM): Maximum recorded, 37.0 ppt May 28, 2002; minimum recorded, 13.6 ppt June 25, 2003, Sept. 10, 2004, and June 13, 2005.

WATER TEMPERATURE (TOP): Maximum recorded, 34.0°C Aug. 17, 2005; minimum recorded, 12.1°C Jan. 25, 2003.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C Aug. 12, 2005; minimum recorded, 12.2°C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 35.6 ppt Mar. 22; minimum recorded, 10.9 ppt June 13.

SALINITY (BOTTOM): Maximum recorded, 34.4 ppt Mar. 30, and Apr. 18; minimum recorded, 13.6 ppt June 13.

WATER TEMPERATURE (TOP): Maximum recorded, 34.0°C Aug. 17; minimum recorded, 14.3°C Dec. 28.

WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2°C Aug. 12; minimum recorded, 14.3°C Dec. 28.

02291669 SIXMILE CYPRESS CREEK NORTH NEAR FORT MYERS, FL

LOCATION.--Lat 26°31'18", long 81°51'09", in SW ¼ NW ¼ NW ¼ sec.31, T.45 S., R.25 E., Lee County, Hydrologic Unit 03090204, 10 ft upstream from Tennile Canal, 0.4 mi south of Sixmile Cypress parkway, and 5.2 mi south of Colonial Boulevard in Ft. Myers, FL.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1987 to 1990, 1992 to current year.

REVISED RECORDS.--WDR FL-01-2A, 2000.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Gate operation log provided by the county of Lee.

REMARKS.--No estimated daily discharges. Records fair. Flow can be regulated by four vertical lift gates, two on either side of control weir. New control weir constructed in 1991. Records of discharge for water years 1999-2005 represent only flow over the top of the weir. Daily value discharge during water years 1999-2005 are not provided when partial or full gate openings occurred. Records of discharge prior to water year 1999 include combinations of flow over the weir and gate flow. No distinctions in flow types prior to water year 1999 have been made. Zero flow occurs numerous days, during all water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 9 complete water years of discharge (1989-90, 1992-98).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.11	10.82	7.03	9.51	6.74	10.17	11.09	11.02	8.73	11.41	11.27	6.31
2	11.09	10.78	7.13	9.51	6.53	10.45	11.10	11.02	10.88	11.37	11.25	6.06
3	11.08	10.71	7.17	9.47	6.34	10.66	11.11	11.01	11.28	11.35	11.22	5.89
4	11.06	10.61	7.12	9.41	6.17	10.85	11.09	11.00	11.49	11.32	11.20	5.87
5	11.05	10.49	6.92	9.35	6.04	10.92	11.05	11.00	11.58	11.30	11.20	5.61
6	11.04	10.34	6.67	9.28	5.93	10.91	11.00	10.99	11.66	11.31	11.21	5.45
7	11.03	10.14	6.44	9.20	5.85	10.90	11.00	10.98	11.65	11.28	11.20	5.28
8	11.02	9.95	6.27	9.10	5.80	10.90	11.02	10.97	11.63	9.90	11.20	5.12
9	11.02	9.74	6.14	9.00	5.75	10.94	11.03	10.95	11.48	9.39	11.19	8.40
10	11.01	9.52	6.03	8.88	5.71	10.98	11.02	10.93	10.38	11.13	11.20	11.09
11	11.00	9.27	5.94	8.74	5.66	10.97	11.02	10.89	10.64	11.26	11.26	11.07
12	10.99	9.04	5.85	8.59	5.62	10.97	11.01	10.89	10.86	11.31	11.28	11.05
13	10.99	8.81	5.79	8.44	5.59	10.98	11.00	10.84	10.71	11.29	11.29	11.03
14	10.98	8.62	5.75	8.31	5.58	10.98	10.99	10.78	9.74	11.22	11.27	11.02
15	10.97	8.48	5.70	8.23	5.57	10.98	10.99	10.72	8.76	---	11.24	11.01
16	10.97	8.31	5.67	8.17	5.55	10.98	10.99	10.59	8.01	10.83	11.20	11.00
17	10.96	8.13	5.65	8.11	5.54	11.09	10.98	10.43	7.52	9.50	11.19	10.99
18	10.96	7.96	5.65	8.01	5.52	11.23	10.97	10.22	7.09	8.29	11.21	10.98
19	10.96	7.77	5.65	7.87	5.49	11.25	10.96	9.99	6.70	7.42	11.23	10.98
20	10.96	7.58	5.64	7.70	5.46	11.27	10.96	9.74	6.38	7.58	11.24	10.98
21	10.96	7.37	5.63	7.48	5.45	11.25	10.96	9.46	6.18	---	11.23	10.99
22	10.95	7.16	5.63	7.23	5.42	11.22	10.94	9.21	6.13	---	11.21	10.99
23	10.95	6.97	5.64	7.24	5.40	11.20	10.94	8.96	6.17	---	11.19	10.99
24	10.94	6.78	5.70	7.42	5.38	11.19	10.91	8.73	6.27	---	11.17	11.06
25	10.94	6.69	5.78	7.52	5.63	11.16	10.88	8.51	6.72	---	7.89	11.10
26	10.93	6.62	6.91	7.55	6.23	11.14	10.82	8.31	6.83	7.37	5.17	11.13
27	10.92	6.48	8.42	7.53	8.33	11.13	10.95	8.12	6.89	7.31	5.43	11.23
28	10.91	6.44	8.93	7.48	9.71	11.13	11.00	7.95	8.80	9.78	5.96	11.21
29	10.89	6.61	9.22	7.36	---	11.12	11.00	7.77	11.45	11.29	6.05	11.26
30	10.87	6.86	9.37	7.18	---	11.11	11.01	7.59	11.45	11.30	6.27	11.30
31	10.85	---	9.45	6.97	---	11.10	---	7.57	---	11.30	6.43	---
TOTAL	340.36	255.05	204.89	255.84	167.99	341.13	329.79	307.14	274.06	---	312.55	286.45
MEAN	10.98	8.50	6.61	8.25	6.00	11.00	10.99	9.91	9.14	---	10.08	9.55
MAX	11.11	10.82	9.45	9.51	9.71	11.27	11.11	11.02	11.66	---	11.29	11.30
MIN	10.85	6.44	5.63	6.97	5.38	10.17	10.82	7.57	6.13	---	5.17	5.12

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	1.3	0.00	0.00	0.00	0.00	45	13	0.00	175	108	---
2	65	0.14	0.00	0.00	0.00	0.00	48	13	21	151	97	---
3	59	0.00	0.00	0.00	0.00	0.00	49	9.7	109	139	86	---
4	55	0.00	0.00	0.00	0.00	2.7	42	8.1	218	123	75	---
5	50	0.00	0.00	0.00	0.00	9.2	42	7.5	281	118	75	---
6	46	0.00	0.00	0.00	0.00	9.0	41	6.6	360	120	81	---
7	44	0.00	0.00	0.00	0.00	7.3	37	5.7	347	105	76	---
8	42	0.00	0.00	0.00	0.00	6.2	44	4.1	330	---	75	---
9	41	0.00	0.00	0.00	0.00	15	44	2.4	---	0.07	70	---
10	38	0.00	0.00	0.00	0.00	24	42	1.0	---	50	77	66
11	36	0.00	0.00	0.00	0.00	22	38	0.15	---	96	99	59
12	34	0.00	0.00	0.00	0.00	21	35	0.17	---	---	112	53
13	33	0.00	0.00	0.00	0.00	24	30	0.00	---	---	115	47
14	30	0.00	0.00	0.00	0.00	25	28	0.00	---	---	107	41
15	27	0.00	0.00	0.00	0.00	25	24	0.00	---	---	91	36
16	27	0.00	0.00	0.00	0.00	25	23	0.00	---	---	77	32
17	26	0.00	0.00	0.00	0.00	62	20	0.00	---	---	73	27
18	25	0.00	0.00	0.00	0.00	114	15	0.00	---	---	82	24
19	25	0.00	0.00	0.00	0.00	127	13	0.00	---	---	89	21
20	25	0.00	0.00	0.00	0.00	131	12	0.00	---	---	93	19
21	25	0.00	0.00	0.00	0.00	121	11	0.00	---	---	90	20
22	23	0.00	0.00	0.00	0.00	108	7.1	0.00	---	---	81	18
23	22	0.00	0.00	0.00	0.00	96	6.4	0.00	---	---	71	19
24	20	0.00	0.00	0.00	0.00	87	2.7	0.00	---	---	66	36
25	19	0.00	0.00	0.00	0.00	75	0.73	0.00	---	---	---	47
26	17	0.00	0.00	0.00	0.00	69	0.01	0.00	---	---	---	55
27	14	0.00	0.00	0.00	0.00	61	8.3	0.00	---	---	---	94
28	11	0.00	0.00	0.00	0.00	59	12	0.00	---	---	---	81
29	8.0	0.00	0.00	0.00	---	58	12	0.00	201	116	---	100
30	5.5	0.00	0.00	0.00	---	55	13	0.00	199	119	---	118
31	3.1	---	0.00	0.00	---	48	---	0.00	---	118	---	---
TOTAL	968.6	1.44	0.00	0.00	0.00	1,486.40	745.24	71.42	---	---	---	---
MEAN	31.2	0.05	0.00	0.00	0.00	47.9	24.8	2.30	---	---	---	---
MAX	73	1.3	0.00	0.00	0.00	131	49	13	---	---	---	---
MIN	3.1	0.00	0.00	0.00	0.00	0.00	0.01	0.00	---	---	---	---
AC-FT	1,920	2.9	0.00	0.00	0.00	2,950	1,480	142	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	45.4	7.87	3.59	4.33	3.72	7.75	1.90	0.16	5.69	31.1	78.1	70.8
MAX	216	38.0	22.7	18.6	23.2	48.5	24.8	2.30	42.1	153	195	238
(WY)	(1996)	(1996)	(1998)	(1998)	(1998)	(1998)	(2005)	(2005)	(1992)	(1992)	(1995)	(1995)
MIN	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.79	26.3
(WY)	(1990)	(1993)	(1990)	(1989)	(1989)	(1990)	(1988)	(1988)	(1988)	(1988)	(1993)	(1997)

SUMMARY STATISTICS

WATER YEARS 1987 - 2005

ANNUAL MEAN	23.3	
HIGHEST ANNUAL MEAN	47.2	1995
LOWEST ANNUAL MEAN	6.84	1993
HIGHEST DAILY MEAN	860	Aug 27, 1995
LOWEST DAILY MEAN	0.00 **	
ANNUAL SEVEN-DAY MINIMUM	0.00 **	
MAXIMUM PEAK FLOW	1,830	Aug 11, 1988
MAXIMUM PEAK STAGE	12.12	Aug 27, 1995
ANNUAL RUNOFF (AC-FT)	16,910	
10 PERCENT EXCEEDS	70	
50 PERCENT EXCEEDS	0.00	
90 PERCENT EXCEEDS	0.00	

** Many days during water year 1988-2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02291673 TENMILE CANAL AT CONTROL NEAR ESTERO, FL

LOCATION.--Lat 26°30'19", long 81°51'00", in NW ¼ SW ¼ NW ¼ sec. 6, T.46 S., R.24 E., Lee County, Hydrologic Unit 03090204, on left bank 367 ft upstream of weir, 1.05 mi north of Alico Road, and 5.3 mi northwest of Estero.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1987 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Prior to July 22, 2003, Satellite data collection platform with water-stage shaft encoder only. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by a broad-crested weir and by two vertical lift gates. Records of discharge represent flow over the weir, flow through gates or a combination of weir flow with gate flow included. Records of discharge for water years 1999-2003 represent only flow over the top of the weir; no daily value flow was provided when partial of full gate openings occurred. Zero flow occurs numerous days during most of the water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 10 complete water years of discharge (1990-98, 2005).

EXTREME STAGES FOR PERIOD OF RECORD.--Maximum gage height, 8.34 ft Aug. 26, 1995; minimum, 1.76 ft Sept. 11, 12, 2005.

EXTREME STAGES FOR CURRENT YEAR.--Maximum gage height, 7.77 ft June 11, minimum, 1.76 ft Sept. 11, 12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.96	5.64	5.55	5.54	5.49	5.59	5.78	5.67	5.80	6.12	---	3.31
2	5.93	5.64	5.55	5.54	5.48	5.58	5.82	5.66	6.09	6.06	3.88	3.08
3	5.91	5.64	5.54	5.54	5.48	5.58	5.84	5.64	---	6.03	3.93	2.85
4	---	5.63	5.54	5.54	5.47	5.58	5.80	5.62	---	5.97	3.42	3.75
5	5.87	5.62	5.53	5.54	5.45	5.58	5.77	5.62	---	6.00	4.57	3.44
6	5.82	5.61	5.53	5.54	5.45	5.58	5.74	5.61	---	5.97	5.99	3.09
7	5.78	5.61	5.54	5.54	5.45	5.58	5.73	5.60	6.64	5.54	5.98	2.88
8	5.77	5.60	5.54	5.54	5.44	5.58	5.79	5.58	6.65	4.35	6.03	2.65
9	5.76	5.60	5.53	5.54	5.44	5.64	5.78	5.58	6.91	6.28	6.13	2.27
10	5.74	5.60	5.54	5.54	5.44	5.72	5.75	5.57	---	6.53	6.06	2.20
11	5.75	5.58	5.53	5.54	5.41	5.70	5.73	5.57	---	6.49	---	2.03
12	5.77	5.54	5.52	5.54	5.39	5.68	5.72	5.58	7.26	6.47	---	---
13	5.76	5.54	5.51	5.53	5.38	5.68	5.72	5.57	6.98	6.35	5.10	3.05
14	5.75	5.54	5.51	5.54	5.38	5.68	5.70	5.56	6.71	6.20	---	5.57
15	5.74	5.55	5.47	5.53	5.37	5.67	5.69	5.58	6.54	---	---	5.31
16	5.73	5.55	5.48	5.52	5.36	5.66	5.67	5.57	6.39	5.90	---	5.69
17	5.73	5.55	5.49	5.52	5.36	5.95	5.66	5.58	6.25	5.74	---	5.68
18	5.72	5.55	5.48	5.51	5.35	6.19	5.66	5.57	6.13	5.53	---	5.67
19	5.72	5.55	5.48	5.52	5.33	6.12	5.65	5.56	6.02	5.02	---	5.65
20	5.72	5.55	5.46	5.52	5.32	6.07	5.65	5.56	5.93	5.56	3.77	5.65
21	5.71	5.55	5.46	5.52	5.30	6.01	5.64	5.55	5.87	5.49	3.49	5.67
22	5.70	5.56	5.48	5.52	5.29	5.96	5.64	5.56	5.87	5.20	3.20	5.70
23	5.70	5.55	5.49	5.53	5.29	5.94	5.63	5.56	5.92	4.76	2.97	5.72
24	5.69	5.55	5.51	5.51	5.28	5.95	5.62	5.60	6.01	4.25	2.80	5.85
25	5.68	5.56	5.53	5.50	5.46	5.91	5.61	5.49	6.17	4.13	3.00	5.85
26	5.68	5.56	5.57	5.50	5.54	5.87	5.61	5.56	6.15	5.11	2.35	5.85
27	5.67	5.56	5.56	5.50	5.59	5.84	5.71	5.57	6.13	4.94	2.96	5.98
28	5.66	5.56	5.56	5.50	5.60	5.86	5.71	5.56	6.17	4.17	3.82	5.97
29	5.66	5.55	5.56	5.50	---	5.86	5.70	5.56	6.25	4.62	3.64	6.06
30	5.65	5.55	5.55	5.50	---	5.82	5.68	5.56	6.22	4.62	3.58	6.11
31	5.64	---	5.54	5.50	---	5.79	---	5.58	---	---	3.48	---
TOTAL	---	167.24	171.13	171.25	151.59	179.22	171.20	172.80	---	---	---	---
MEAN	---	5.57	5.52	5.52	5.41	5.78	5.71	5.57	---	---	---	---
MAX	---	5.64	5.57	5.54	5.60	6.19	5.84	5.67	---	---	---	---
MIN	---	5.54	5.46	5.50	5.28	5.58	5.61	5.40	---	---	---	---

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	43	22	20	9.3	31	90	51	114	466	e301	201
2	135	43	21	20	8.4	29	109	48	283	421	e281	184
3	124	42	20	20	8.1	28	118	42	e623	398	e254	136
4	e113	40	20	20	7.8	28	101	38	e1,040	353	e213	237
5	106	39	19	20	5.3	28	86	37	e1,070	381	197	186
6	98	36	18	20	4.8	28	75	36	e1,040	330	207	131
7	91	35	19	20	4.6	28	71	32	881	321	202	107
8	86	34	19	20	4.1	28	97	29	743	304	239	98
9	82	33	18	20	4.0	45	92	28	819	e738	313	e98
10	77	32	19	20	3.8	69	82	26	e1,020	e885	256	e71
11	78	29	18	20	1.5	61	74	25	e1,300	868	e266	e58
12	89	20	14	19	0.40	55	68	28	1,310	852	e291	e1.5
13	86	20	14	18	0.26	55	67	25	1,180	761	e312	e28
14	81	21	13	19	0.23	54	63	25	979	664	e294	40
15	77	21	6.9	17	0.16	51	59	28	805	e576	e286	72
16	74	21	8.0	16	0.10	49	53	27	e665	495	e250	59
17	71	22	9.6	16	0.06	222	50	27	e572	429	e216	56
18	70	22	8.6	13	0.03	e359	48	27	e475	364	e235	52
19	69	22	8.3	15	0.00	328	46	24	401	332	e221	47
20	68	22	6.6	15	0.00	262	45	23	e347	373	211	47
21	66	22	6.0	15	0.00	221	45	23	305	353	190	53
22	62	23	8.3	15	0.00	186	43	24	314	343	e166	61
23	61	23	11	17	0.00	172	41	23	332	319	e135	70
24	59	21	13	13	0.00	179	37	e9.4	364	294	e156	123
25	55	24	18	12	11	155	35	12	478	291	186	123
26	54	23	27	12	20	137	36	24	e471	354	e136	127
27	51	23	24	12	30	120	65	25	e458	339	e152	200
28	49	23	24	12	33	130	65	25	e486	287	228	193
29	48	23	23	11	---	129	60	24	e563	322	208	252
30	45	22	22	12	---	109	54	24	e532	319	202	292
31	44	---	21	11	---	97	---	29	---	e336	211	---
TOTAL	2,418	824	499.3	510	156.94	3,473	1,975	868.4	19,970	13,868	7,015	3,403.5
MEAN	78.0	27.5	16.1	16.5	5.61	112	65.8	28.0	666	447	226	113
MAX	149	43	27	20	33	359	118	51	1,310	885	313	292
MIN	44	20	6.0	11	0.00	28	35	9.4	114	287	135	1.5
AC-FT	4,800	1,630	990	1,010	311	6,890	3,920	1,720	39,610	27,510	13,910	6,750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	124	31.5	21.2	23.5	25.4	22.4	8.63	9.30	94.5	166	265	228
MAX	603	118	131	65.8	186	136	65.8	107	666	676	717	827
(WY)	(1996)	(1994)	(1998)	(1998)	(1998)	(1998)	(2005)	(1991)	(2005)	(1991)	(2004)	(1995)
MIN	14.7	2.84	0.91	0.02	0.00	1.85	0.00	0.00	1.20	3.90	35.3	67.2
(WY)	(1989)	(1990)	(1991)	(1989)	(1989)	(1990)	(1999)	(1988)	(1998)	(1988)	(1993)	(1997)

SUMMARY STATISTICS

FOR 2005 WATER YEAR

WATER YEARS 1988 - 2005

ANNUAL TOTAL	54,981.14	
ANNUAL MEAN	151	96.4
HIGHEST ANNUAL MEAN		165
LOWEST ANNUAL MEAN		29.6
HIGHEST DAILY MEAN	1,310	2,170
LOWEST DAILY MEAN	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**
ANNUAL RUNOFF (AC-FT)	109,100	69,870
10 PERCENT EXCEEDS	376	284
50 PERCENT EXCEEDS	52	20
90 PERCENT EXCEEDS	11	0.31

e Estimated

** Many days during water years 1989-95, 1997-2002, 2004, 2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02291710 BRIARCLIFF DITCH AT MOUTH NEAR ESTERO, FL

LOCATION.--Lat 26°30'21", long 81°51'10", in NW ¼ SW ¼ NW ¼, sec.6, T.46 S., R.24 E., Lee County, Hydrologic Unit 03090204, on left bank 350 ft upstream of culvert structure at confluence with Ten Mile Canal, 1.05 mi north of Alico Road, and 5.3 mi northwest of Estero.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 2004 to September 2005.

GAGE.--Satellite data collection platform with acoustic Doppler velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). SEE REMARKS.

REMARKS.--Records fair except those for estimated daily discharges, and discharges below 40 cfs, which are poor. Flow is regulated downstream of site by a broad-crested weir and by two vertical lift gates. Flow is regulated upstream by various weir structures. Stage data from station 02291673 Tenmile Canal at Control near Estero, FL is used in the computation of discharge.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	-0.88	0.83	-2.0	0.30	24	2.8	e30	146	e75	45
2	---	---	-0.55	-0.26	-2.5	0.55	34	9.6	e102	141	75	44
3	---	---	1.1	-0.95	-1.2	-0.45	37	4.2	178	136	84	14
4	---	---	-2.2	0.51	-0.95	-0.29	23	3.4	e250	128	e75	80
5	---	---	-1.5	-0.10	-2.2	0.35	21	3.4	---	157	76	52
6	---	---	0.25	-1.1	-1.9	1.0	18	5.7	e266	127	92	12
7	---	---	0.46	0.31	-1.3	1.7	12	1.5	---	113	90	4.8
8	---	---	-2.6	-3.3	-2.4	0.54	27	-1.1	198	102	e82	5.9
9	---	---	-1.9	-2.7	-1.2	8.6	27	0.45	265	e215	89	9.6
10	---	9.1	0.69	-2.1	-1.3	17	13	1.4	---	e245	82	5.6
11	---	3.2	0.17	-0.05	-1.9	12	12	-2.2	---	230	e79	1.2
12	---	2.4	-0.79	e5.4	-1.8	9.3	9.7	0.47	384	195	e85	0.75
13	---	2.7	-1.0	-3.9	-0.90	7.7	12	1.3	335	166	e109	9.0
14	---	1.0	0.85	-1.5	-1.7	7.0	7.7	0.90	275	142	e100	16
15	---	1.2	-0.51	-0.45	-1.3	e8.9	7.3	0.60	231	e130	e86	19
16	---	-0.85	-0.87	-0.17	-1.9	---	3.4	1.2	e209	110	e76	13
17	---	-2.1	-1.7	-0.04	-0.79	---	0.67	0.61	e177	99	e66	9.8
18	---	-1.8	-0.63	-2.0	-1.4	---	5.4	0.31	e145	91	e62	3.5
19	---	0.59	-0.27	-1.9	-0.18	97	8.1	0.99	123	97	e62	9.1
20	---	0.66	-0.65	-1.6	-0.31	77	1.4	-1.9	e109	122	53	7.0
21	---	-1.2	0.37	-1.8	-0.91	e65	-7.2	5.3	104	108	44	12
22	---	0.21	0.20	-1.4	-0.91	51	-2.6	e4.7	122	102	e34	15
23	---	-1.6	-4.3	-0.73	-1.2	52	1.4	e4.0	139	95	e13	15
24	---	-4.4	-1.8	-2.6	-0.43	65	-0.26	0.55	164	89	e46	25
25	---	-0.56	-0.28	-2.2	-0.63	56	-0.44	e4.2	e209	92	43	24
26	---	-1.2	1.7	-0.05	-1.6	51	-1.5	-1.1	e193	103	32	19
27	---	0.85	-0.34	1.8	-0.78	43	11	-1.9	e176	92	47	e42
28	---	-0.21	0.83	0.15	-0.02	45	8.9	-1.9	e193	88	71	e22
29	---	-1.5	-0.76	-0.13	---	46	4.6	e2.7	e179	97	65	e25
30	---	0.47	0.17	-1.2	---	36	2.0	-1.1	e164	82	56	e35
31	---	---	2.0	-4.2	---	28	---	-0.22	---	e80	50	---
TOTAL	---	---	-14.74	-27.43	-35.61	---	319.57	48.86	---	3,920	2,099	595.25
MEAN	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
MAX	---	---	2.0	5.4	-0.02	---	37	9.6	---	245	109	80
MIN	---	---	-4.3	-4.2	-2.5	---	-7.2	-2.2	---	80	13	0.75
AC-FT	---	---	-29	-54	-71	---	634	97	---	7,780	4,160	1,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
MAX	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
(WY)	---	---	(2005)	(2005)	(2005)	---	(2005)	(2005)	---	(2005)	(2005)	(2005)
MIN	---	---	-0.48	-0.88	-1.27	---	10.7	1.58	---	126	67.7	19.8
(WY)	---	---	(2005)	(2005)	(2005)	---	(2005)	(2005)	---	(2005)	(2005)	(2005)

e Estimated

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL

LOCATION.--Lat 26°31'50", long 81°52'30", in NE 1/4 SW 1/4 SW 1/4, sec.26, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090204, on a dock 150 ft east of the weir and gate structure at the east end of Lakes Park, 0.25 mi east of U.S. Highway 41 and 200 ft north of Gladiolus Drive.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 2004 to September 2005. Discontinued.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Zero flow occurs numerous days, during water years 2004 and 2005.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	3.98	4.00
2	---	---	---	---	---	---	---	---	---	---	4.06	3.99
3	---	---	---	---	---	---	---	---	---	---	4.00	3.97
4	---	---	---	---	---	---	---	---	---	---	4.03	3.97
5	---	---	---	---	---	---	---	---	---	---	4.03	4.06
6	---	---	---	---	---	---	---	---	---	---	4.13	4.19
7	---	---	---	---	---	---	---	---	---	---	4.04	4.15
8	---	---	---	---	---	---	---	---	---	---	3.97	4.14
9	---	---	---	---	---	---	---	---	---	---	3.92	4.08
10	---	---	---	---	---	---	---	---	---	---	3.85	4.06
11	---	---	---	---	---	---	---	---	---	---	3.74	4.02
12	---	---	---	---	---	---	---	---	---	---	3.61	3.98
13	---	---	---	---	---	---	---	---	---	---	3.94	3.94
14	---	---	---	---	---	---	---	---	---	---	4.20	3.91
15	---	---	---	---	---	---	---	---	---	---	4.11	3.85
16	---	---	---	---	---	---	---	---	---	---	4.05	3.77
17	---	---	---	---	---	---	---	---	---	---	4.14	3.70
18	---	---	---	---	---	---	---	---	---	---	4.05	3.61
19	---	---	---	---	---	---	---	---	---	---	4.06	3.49
20	---	---	---	---	---	---	---	---	---	---	3.97	3.35
21	---	---	---	---	---	---	---	---	---	---	3.94	3.24
22	---	---	---	---	---	---	---	---	---	---	4.00	3.15
23	---	---	---	---	---	---	---	---	---	---	4.08	3.09
24	---	---	---	---	---	---	---	---	---	---	4.07	3.02
25	---	---	---	---	---	---	---	---	---	---	4.19	2.95
26	---	---	---	---	---	---	---	---	---	---	4.13	2.96
27	---	---	---	---	---	---	---	---	---	---	4.04	2.93
28	---	---	---	---	---	---	---	---	---	3.84	3.97	2.73
29	---	---	---	---	---	---	---	---	---	3.90	3.90	2.51
30	---	---	---	---	---	---	---	---	---	3.97	3.88	2.47
31	---	---	---	---	---	---	---	---	---	3.97	3.91	---
TOTAL	---	---	---	---	---	---	---	---	---	---	123.99	107.28
MEAN	---	---	---	---	---	---	---	---	---	---	4.00	3.58
MAX	---	---	---	---	---	---	---	---	---	---	4.20	4.19
MIN	---	---	---	---	---	---	---	---	---	---	3.61	2.47

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	9.5	3.9
2	---	---	---	---	---	---	---	---	---	---	19	3.0
3	---	---	---	---	---	---	---	---	---	---	9.9	0.67
4	---	---	---	---	---	---	---	---	---	---	15	2.2
5	---	---	---	---	---	---	---	---	---	---	17	18
6	---	---	---	---	---	---	---	---	---	---	34	51
7	---	---	---	---	---	---	---	---	---	---	15	42
8	---	---	---	---	---	---	---	---	---	---	5.8	37
9	---	---	---	---	---	---	---	---	---	---	0.51	19
10	---	---	---	---	---	---	---	---	---	---	0.00	14
11	---	---	---	---	---	---	---	---	---	---	0.00	7.1
12	---	---	---	---	---	---	---	---	---	---	0.00	1.8
13	---	---	---	---	---	---	---	---	---	---	e32	0.00
14	---	---	---	---	---	---	---	---	---	---	e51	0.00
15	---	---	---	---	---	---	---	---	---	---	28	0.00
16	---	---	---	---	---	---	---	---	---	---	14	0.00
17	---	---	---	---	---	---	---	---	---	---	37	0.00
18	---	---	---	---	---	---	---	---	---	---	12	0.00
19	---	---	---	---	---	---	---	---	---	---	15	0.00
20	---	---	---	---	---	---	---	---	---	---	1.3	0.00
21	---	---	---	---	---	---	---	---	---	---	0.00	0.00
22	---	---	---	---	---	---	---	---	---	---	12	0.00
23	---	---	---	---	---	---	---	---	---	---	22	0.00
24	---	---	---	---	---	---	---	---	---	---	21	0.00
25	---	---	---	---	---	---	---	---	---	---	50	0.00
26	---	---	---	---	---	---	---	---	---	---	34	0.00
27	---	---	---	---	---	---	---	---	---	---	11	0.00
28	---	---	---	---	---	---	---	---	---	0.00	1.7	0.00
29	---	---	---	---	---	---	---	---	---	2.0	0.00	0.00
30	---	---	---	---	---	---	---	---	---	6.3	0.00	0.00
31	---	---	---	---	---	---	---	---	---	6.0	1.6	---
TOTAL	---	---	---	---	---	---	---	---	---	---	469.31	199.67
MEAN	---	---	---	---	---	---	---	---	---	---	15.1	6.66
MAX	---	---	---	---	---	---	---	---	---	---	51	51
MIN	---	---	---	---	---	---	---	---	---	---	0.00	0.00
AC-FT	---	---	---	---	---	---	---	---	---	---	931	396

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	15.1	6.66
MAX	---	---	---	---	---	---	---	---	---	---	15.1	6.66
(WY)	---	---	---	---	---	---	---	---	---	---	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	15.1	6.66
(WY)	---	---	---	---	---	---	---	---	---	---	(2004)	(2004)

e Estimated

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.12	2.74	2.73	3.57	3.46	4.00	3.99	4.00	4.13	3.87	4.03	3.46
2	3.22	2.74	2.73	3.58	3.45	3.98	4.03	3.99	4.13	3.94	4.02	3.43
3	3.12	2.73	2.73	3.60	3.44	3.98	4.01	3.98	4.28	3.96	4.01	3.41
4	2.96	2.73	2.73	3.61	3.43	3.98	4.00	3.98	4.27	3.94	4.00	3.53
5	2.76	2.73	2.73	3.62	3.41	3.97	3.99	3.98	4.19	3.93	4.06	3.54
6	2.56	2.70	2.72	3.63	3.38	3.97	3.99	3.97	4.13	3.89	4.03	3.52
7	2.39	2.69	2.72	3.63	3.37	3.97	3.99	3.97	4.09	3.83	4.03	3.47
8	2.24	2.66	2.71	3.63	3.36	3.96	4.05	3.97	4.09	3.81	4.07	3.42
9	2.11	2.65	2.70	3.63	3.35	4.04	4.02	3.97	4.11	4.16	4.10	3.37
10	2.05	2.63	2.70	3.62	3.34	4.03	4.00	3.97	4.21	4.10	4.06	3.33
11	2.05	2.62	2.70	3.61	3.32	4.00	4.00	3.99	4.66	4.05	4.03	3.28
12	2.16	2.62	2.68	3.59	3.29	3.99	3.99	3.99	4.25	4.02	4.01	3.23
13	2.26	2.62	2.66	3.58	3.27	3.98	3.99	3.98	4.16	4.00	4.01	3.15
14	2.34	2.62	2.66	3.58	3.25	3.97	3.99	3.98	4.10	4.00	4.01	3.09
15	2.41	2.63	2.63	3.57	3.24	3.97	3.98	4.00	4.05	3.98	4.00	3.03
16	2.45	2.62	2.61	3.56	3.22	3.97	3.97	3.99	3.96	3.98	3.96	2.97
17	2.50	2.61	2.60	3.53	3.21	4.20	3.97	3.98	3.88	3.97	3.91	2.88
18	2.54	2.60	2.60	3.50	3.20	4.16	3.97	3.97	3.76	3.97	3.88	2.80
19	2.58	2.59	2.59	3.48	3.17	4.09	3.99	3.97	3.59	3.98	3.96	2.70
20	2.61	2.59	2.58	3.47	3.15	4.06	3.99	3.97	3.36	4.00	3.91	2.61
21	2.64	2.58	2.57	3.46	3.13	4.03	3.99	3.97	3.23	3.98	3.84	2.59
22	2.66	2.59	2.57	3.46	3.12	4.01	3.98	3.97	3.21	3.97	3.76	2.63
23	2.67	2.59	2.59	3.49	3.10	4.02	3.97	3.97	3.25	3.95	3.69	2.66
24	2.69	2.58	2.64	3.49	3.09	4.02	3.97	3.95	3.43	3.95	3.64	3.47
25	2.71	2.64	2.74	3.49	3.33	4.01	3.96	3.93	3.80	4.05	3.61	3.84
26	2.73	2.66	3.12	3.49	3.51	4.00	3.96	3.92	3.69	4.11	3.56	3.99
27	2.73	2.67	3.25	3.49	3.76	4.00	4.10	3.94	3.51	4.04	3.55	4.06
28	2.73	2.71	3.41	3.49	3.98	4.03	4.02	3.95	3.42	4.01	3.62	4.03
29	2.73	2.72	3.47	3.49	---	4.02	4.00	3.96	3.59	4.01	3.61	4.06
30	2.73	2.72	3.50	3.49	---	4.00	3.99	3.96	3.78	4.04	3.58	4.05
31	2.74	---	3.54	3.48	---	3.99	---	4.00	---	4.06	3.53	---
TOTAL	80.19	79.58	86.91	109.91	93.33	124.40	119.85	123.12	116.31	123.55	120.08	99.60
MEAN	2.59	2.65	2.80	3.55	3.33	4.01	4.00	3.97	3.88	3.99	3.87	3.32
MAX	3.22	2.74	3.54	3.63	3.98	4.20	4.10	4.00	4.66	4.16	4.10	4.06
MIN	2.05	2.58	2.57	3.46	3.09	3.96	3.96	3.92	3.21	3.81	3.53	2.59

02291715 LAKE OUTFALL TO HENDRY CREEK AT GLADIOLUS DRIVE NEAR FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	3.7	5.1	2.3	31	0.00	5.8	0.00
2	0.00	0.00	0.00	0.00	0.00	1.4	11	1.4	29	2.4	3.9	0.00
3	0.00	0.00	0.00	0.00	0.00	2.4	8.0	0.97	e66	3.9	2.3	0.00
4	0.00	0.00	0.00	0.00	0.00	2.2	5.6	1.8	63	1.9	1.5	0.00
5	0.00	0.00	0.00	0.00	0.00	1.4	5.0	1.1	46	0.04	11	0.00
6	0.00	0.00	0.00	0.00	0.00	1.4	4.2	0.50	33	0.00	6.4	0.00
7	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.00	24	0.00	6.1	0.00
8	0.00	0.00	0.00	0.00	0.00	0.44	13	0.07	26	0.78	18	0.00
9	0.00	0.00	0.00	0.00	0.00	14	8.2	0.10	29	45	23	0.00
10	0.00	0.00	0.00	0.00	0.00	14	5.7	0.39	56	30	12	0.00
11	0.00	0.00	0.00	0.00	0.00	9.5	4.6	2.9	262	16	5.9	0.00
12	0.00	0.00	0.00	0.00	0.00	8.4	3.3	3.2	65	11	3.0	0.00
13	0.00	0.00	0.00	0.00	0.00	7.5	3.3	1.5	41	7.6	3.4	0.00
14	0.00	0.00	0.00	0.00	0.00	5.9	2.4	1.6	27	6.6	2.4	0.00
15	0.00	0.00	0.00	0.00	0.00	5.7	1.2	4.3	17	4.8	1.7	0.00
16	0.00	0.00	0.00	0.00	0.00	5.3	0.62	4.1	4.3	4.1	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	59	0.01	2.7	0.00	2.3	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	45	0.56	1.6	0.00	1.8	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	27	3.0	1.2	0.00	3.1	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	21	3.5	1.1	0.00	5.6	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	14	2.6	1.2	0.00	3.0	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	11	0.29	1.3	0.00	0.63	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	13	0.00	0.89	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	1.8	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	18	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	8.7	0.00	0.00	0.00	27	0.00	12
27	0.00	0.00	0.00	0.00	0.00	8.3	20	0.00	0.00	8.5	0.00	15
28	0.00	0.00	0.00	0.00	2.4	13	6.0	0.50	0.00	3.7	0.00	11
29	0.00	0.00	0.00	0.00	---	11	2.9	1.4	0.00	4.5	0.00	15
30	0.00	0.00	0.00	0.00	---	7.6	1.8	1.4	0.00	13	0.00	13
31	0.00	---	0.00	0.00	---	6.0	---	7.3	---	12	0.00	---
TOTAL	0.00	0.00	0.00	0.00	2.40	353.24	126.38	46.82	819.30	239.05	106.40	66.00
MEAN	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	3.43	2.20
MAX	0.00	0.00	0.00	0.00	2.4	59	20	7.3	262	45	23	15
MIN	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	4.8	701	251	93	1,630	474	211	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

	2004	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004
MEAN	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	9.29	4.43
MAX	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	15.1	6.66
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	0.00	0.00	0.00	0.00	0.09	11.4	4.21	1.51	27.3	7.71	3.43	2.20
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS

FOR 2005 WATER YEAR

WATER YEARS 2004 - 2005

ANNUAL TOTAL	1,759.59	
ANNUAL MEAN	4.82	4.82
HIGHEST ANNUAL MEAN		4.82 2005
LOWEST ANNUAL MEAN		4.82 2005
HIGHEST DAILY MEAN	262 Jun 11	262 Jun 11, 2005
LOWEST DAILY MEAN	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**
MAXIMUM PEAK FLOW	633 Jun 11	633 Jun 11, 2005
MAXIMUM PEAK STAGE	5.24 Jun 11	5.24 Jun 11, 2005
ANNUAL RUNOFF (AC-FT)	3,490	3,490
10 PERCENT EXCEEDS	13	13
50 PERCENT EXCEEDS	0.00	0.00
90 PERCENT EXCEEDS	0.00	0.00

e Estimated

** Many days during water year 2004, 2005.

02291717 LAKE OUTFALL TO HENDRY CREEK AT SUMMERLIN ROAD NEAR FT. MYERS, FL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.12	1.42	1.27	1.24	1.22	1.43	2.46	2.66	2.66	3.08	2.18	1.75
2	2.07	1.41	1.26	1.23	1.21	1.42	2.51	2.68	2.86	3.07	2.22	1.74
3	2.00	1.40	1.24	1.22	1.21	1.40	2.54	2.68	3.15	3.07	2.22	1.73
4	1.94	1.39	1.22	1.22	1.21	1.42	2.54	2.67	3.52	3.05	2.21	1.75
5	1.88	1.39	1.20	1.21	1.20	1.41	2.53	2.67	3.51	3.02	2.24	1.73
6	1.82	1.36	1.19	1.22	1.20	1.40	2.52	2.67	3.39	2.99	2.24	1.71
7	1.75	1.34	1.18	1.22	1.20	1.40	2.52	2.66	3.24	2.96	2.26	1.68
8	1.69	1.32	1.18	1.22	1.20	1.40	2.60	2.65	3.14	2.95	2.31	1.66
9	1.65	1.30	1.18	1.22	1.21	1.49	2.61	2.64	3.12	3.17	2.40	1.64
10	1.63	1.29	1.18	1.21	1.22	1.58	2.61	2.63	3.22	3.27	2.42	1.62
11	1.63	1.27	1.18	1.21	1.21	1.58	2.60	2.62	3.75	3.25	2.34	1.59
12	1.69	1.28	1.16	1.22	1.20	1.58	2.59	2.62	3.76	3.05	2.23	1.56
13	1.69	1.28	1.15	1.22	1.19	1.57	2.59	2.61	3.62	2.86	2.14	1.55
14	1.68	1.30	1.15	1.24	1.19	1.57	2.58	2.60	3.42	2.70	2.06	1.54
15	1.67	1.29	1.12	1.24	1.19	1.57	2.57	2.61	3.27	2.58	2.00	1.53
16	1.64	1.28	1.11	1.23	1.19	1.56	2.55	2.60	3.20	2.47	1.93	1.52
17	1.62	1.26	1.10	1.22	1.19	1.81	2.53	2.59	3.14	2.37	1.91	1.51
18	1.60	1.25	1.09	1.20	1.18	2.17	2.51	2.57	3.09	2.27	1.90	1.51
19	1.59	1.25	1.09	1.19	1.17	2.23	2.50	2.55	3.04	2.20	1.91	1.50
20	1.58	1.24	1.08	1.19	1.16	2.26	2.49	2.54	2.98	2.16	1.89	1.47
21	1.56	1.24	1.06	1.19	1.15	2.26	2.48	2.52	2.93	2.09	1.87	1.48
22	1.55	1.23	1.06	1.20	1.15	2.27	2.47	2.51	2.91	2.06	1.86	1.52
23	1.52	1.24	1.07	1.24	1.14	2.30	2.46	2.50	2.94	2.03	1.86	1.55
24	1.50	1.24	1.11	1.22	1.14	2.36	2.45	2.49	3.05	2.02	1.84	1.68
25	1.49	1.29	1.16	1.21	1.24	2.38	2.43	2.48	3.21	2.06	1.81	1.67
26	1.48	1.30	1.27	1.21	1.28	2.39	2.41	2.47	3.26	2.16	1.77	1.70
27	1.46	1.29	1.26	1.22	1.36	2.39	2.60	2.46	3.25	2.16	1.79	1.88
28	1.44	1.31	1.25	1.22	1.41	2.44	2.65	2.45	3.20	2.14	1.83	1.95
29	1.43	1.29	1.24	1.22	---	2.46	2.65	2.43	3.15	2.12	1.82	2.00
30	1.43	1.28	1.24	1.22	---	2.46	2.65	2.42	3.12	2.12	1.80	2.04
31	1.42	---	1.24	1.22	---	2.47	---	2.46	---	2.17	1.78	---
TOTAL	51.22	39.03	36.29	37.74	33.82	58.43	76.20	79.71	96.10	79.67	63.04	49.76
MEAN	1.65	1.30	1.17	1.22	1.21	1.88	2.54	2.57	3.20	2.57	2.03	1.66
MAX	2.12	1.42	1.27	1.24	1.41	2.47	2.65	2.68	3.76	3.27	2.42	2.04
MIN	1.42	1.23	1.06	1.19	1.14	1.40	2.41	2.42	2.66	2.02	1.77	1.47

02291717 LAKE OUTFALL TO HENDRY CREEK AT SUMMERLIN ROAD NEAR FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e13	0.35	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58	0.18	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	0.07	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.5	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	4.3	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92	---	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	---	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55	---	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42	---	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8	---	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.6	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.3	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	2.3	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	1.2	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.01
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.01
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	---	---	(2005)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	---	---	(2005)	(2005)

SUMMARY STATISTICS

WATER YEARS 2004 - 2005

HIGHEST DAILY MEAN	92	Jun 11, 2005
LOWEST DAILY MEAN	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.00**	

e Estimated

** Many days during water years 2004, 2005.

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL

LOCATION.--Lat 26°43'25", long 81°41'55", in SW ¼ sec.23, T.43 S., R.26 E., Lee County, Hydrologic Unit 03090205, in control house at southeast end of lock at salinity-control structure 79, 1 mi upstream from Telegraph Creek, and 1.2 mi northeast of Olga.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1964 to March 1966 (gage heights only), April 1966 to current year.

REVISED RECORDS.--WDR FL-79-2A, 1978.

GAGE.--U.S. Army Corps of Engineers owned and operated satellite data collection platform with water-stage shaft encoders. Prior to October 16, 1998, similar equipment belonging to the U.S. Geological Survey was used. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for estimated discharges, which are poor. Flow regulated by operation of salinity-control structure 79. Downstream stage is basically tidal, but at times is affected by gate operation. Starting in the 2002 water year the downstream stage record published is the maximum and minimum gage height for each calendar day. Prior to the 2002 water year daily mean for downstream stage was published. Discharge computed from relations between discharge, head, and gate opening. Satellite data collection platform with shaft encoders were installed August 30, 1991 to collect upstream and downstream stages. U.S. Army Corps of Engineers equipment installed on October 16, 1998.

COOPERATION.--Records of stage, gate and lock operation provided by U.S. Army Corps of Engineers.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 32 complete years of discharge (1967-94, 1996-97, 2003-04).

EXTREME UPSTREAM STAGES FOR PERIOD OF RECORD.--Maximum gage height, 6.04 ft Sept. 14, 2001; minimum, 1.18 ft Sept. 22, 1966.

EXTREME UPSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.93 ft Mar. 18; minimum, 2.23 ft Mar. 29.

EXTREME DOWNSTREAM STAGES FOR PERIOD OF RECORD.--Not available.

EXTREME DOWNSTREAM STAGES FOR CURRENT YEAR.--Maximum gage height, 3.73 ft Dec. 26; minimum, -1.42 ft Dec. 15.

UPSTREAM
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.15	3.05	---	3.41	3.06	3.05	---	3.11	3.16	2.94	2.97	3.02
2	2.79	3.00	2.94	3.40	3.11	3.10	---	3.04	3.22	3.09	3.05	3.03
3	2.82	2.87	3.02	3.37	3.08	3.08	---	3.11	3.27	3.10	3.08	2.91
4	2.87	2.93	3.08	3.14	3.09	3.23	---	3.14	3.04	3.04	2.94	2.95
5	2.82	---	3.13	3.03	3.04	3.30	---	2.98	3.04	3.01	2.89	3.04
6	2.84	2.87	3.22	3.02	2.99	3.13	3.16	2.89	3.09	2.90	2.98	2.94
7	2.71	3.07	3.05	3.13	3.15	3.30	3.27	2.81	3.14	2.84	3.04	2.98
8	2.83	2.98	2.93	3.08	3.28	3.24	3.10	3.06	3.17	2.70	3.22	3.00
9	2.85	---	2.94	3.10	---	3.15	3.02	3.05	3.02	2.82	---	2.95
10	2.88	3.01	3.15	3.13	---	3.21	3.25	3.11	3.06	3.44	---	2.98
11	2.87	2.99	3.23	3.18	2.92	3.10	3.28	3.16	3.19	---	2.97	3.14
12	2.96	3.12	3.28	3.22	3.08	3.07	3.10	3.21	2.94	---	2.98	3.13
13	2.90	---	3.24	3.11	3.30	3.06	3.05	3.03	2.99	---	2.96	3.08
14	2.86	2.75	3.09	3.14	2.92	2.98	3.09	3.23	3.01	---	3.00	3.10
15	2.92	2.91	2.83	3.04	3.06	---	3.20	3.17	---	---	2.96	---
16	2.74	3.18	2.91	3.07	3.12	3.15	3.20	3.19	---	---	---	2.99
17	2.85	2.92	3.03	3.05	2.98	3.27	3.14	3.19	---	---	2.89	3.16
18	2.93	2.94	3.09	3.04	3.07	3.24	3.17	3.13	---	---	2.94	2.97
19	2.77	---	2.98	2.89	3.10	3.11	3.18	2.99	3.23	---	3.02	3.06
20	2.89	3.05	2.87	2.90	3.24	2.99	3.11	3.26	3.08	---	3.07	2.79
21	2.75	3.09	2.93	3.41	3.31	---	3.24	3.26	2.85	---	2.97	2.87
22	2.65	---	3.30	3.33	3.08	---	3.17	3.18	3.29	---	3.06	3.20
23	2.78	3.25	3.23	3.21	2.96	---	3.14	3.17	3.21	---	2.93	3.03
24	2.86	---	3.36	3.13	2.91	---	3.13	3.05	3.23	---	---	3.09
25	2.90	3.12	3.18	3.33	3.23	---	2.99	3.17	3.25	3.04	2.71	3.00
26	2.80	---	3.21	3.36	3.02	---	2.95	2.74	3.18	2.98	2.72	3.12
27	2.85	---	3.15	2.99	3.17	2.98	3.17	3.18	3.10	3.05	2.79	3.04
28	2.93	3.04	3.27	2.99	2.74	3.09	3.07	3.26	3.17	2.99	2.76	3.07
29	2.93	2.97	3.33	2.92	---	2.74	3.09	3.08	3.14	3.00	2.98	---
30	3.02	---	3.35	3.15	---	3.37	3.14	3.07	3.05	3.04	2.87	---
31	3.07	---	3.34	3.23	---	2.83	---	3.03	---	2.90	2.86	---
TOTAL	88.79	---	---	97.50	---	---	---	96.05	---	---	---	---
MEAN	2.86	---	---	3.15	---	---	---	3.10	---	---	---	---
MAX	3.15	---	---	3.41	---	---	---	3.26	---	---	---	---
MIN	2.65	---	---	2.89	---	---	---	2.74	---	---	---	---

02292900 CALOOSAHATCHEE RIVER AT S-79, NEAR OLGA, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13,000	7,310	---	0.00	1,260	1,940	1,990	1,200	5,980	10,700	11,000	4,920
2	11,300	7,270	---	277	936	820	---	670	7,750	10,300	9,930	4,850
3	10,400	7,210	2,250	286	862	1,270	---	2,680	8,800	10,800	9,740	5,720
4	9,710	6,840	2,190	143	973	661	---	7,250	10,400	11,000	9,730	5,100
5	9,830	6,880	1,850	0.00	497	1,180	---	8,080	9,790	10,700	9,450	3,980
6	10,400	6,800	2,160	0.00	751	955	1,320	7,160	9,550	9,840	10,000	4,900
7	10,000	7,170	1,180	964	2,190	136	4,340	4,660	8,680	9,500	10,300	7,660
8	10,200	7,090	454	2,580	2,720	1,040	6,500	5,870	10,900	9,600	13,300	9,090
9	10,600	e6,420	204	3,280	2,620	1,560	4,650	5,810	9,740	16,900	12,900	8,930
10	8,130	4,600	84	3,270	1,480	3,180	4,370	4,890	13,100	---	---	7,560
11	6,940	4,000	0.00	1,900	1,360	2,830	4,360	4,720	12,800	---	10,800	5,600
12	9,810	5,390	0.00	1,920	981	2,880	2,740	3,800	12,700	---	9,960	4,120
13	9,430	6,600	994	e1,830	1,120	1,850	1,600	2,240	12,800	---	9,030	1,900
14	9,480	5,500	2,350	1,620	648	1,410	493	1,070	12,100	---	9,180	1,410
15	9,010	3,960	3,120	1,760	63	1,290	264	750	---	---	9,420	---
16	9,420	3,110	2,750	1,640	157	1,420	1,350	397	---	---	---	1,700
17	9,270	1,830	1,600	902	336	5,280	4,070	146	---	---	7,970	4,750
18	9,610	424	1,630	508	808	10,300	5,380	1,200	---	---	7,590	6,450
19	9,350	e242	801	114	902	7,960	4,960	3,600	4,580	---	8,660	6,690
20	9,890	1,040	566	276	875	6,470	4,740	4,550	4,450	---	7,910	6,200
21	9,820	2,770	130	987	771	---	3,430	4,480	4,260	---	7,910	3,640
22	9,370	1,970	652	1,250	587	---	2,820	4,600	4,870	---	7,880	3,880
23	9,360	2,900	324	1,100	531	---	1,720	4,740	7,660	---	7,120	2,520
24	9,050	1,880	408	892	407	---	610	2,550	9,330	---	8,340	1,570
25	9,340	1,680	386	758	1,780	---	777	1,630	7,250	11,700	8,840	1,450
26	8,990	---	753	1,550	2,490	---	524	1,280	9,510	10,100	2,820	2,500
27	8,500	---	751	3,090	2,580	3,650	3,090	996	9,050	10,400	3,940	6,420
28	7,670	---	332	3,430	2,440	5,170	1,500	1,830	10,300	10,700	7,610	7,910
29	7,420	---	0.00	2,460	---	2,190	979	3,950	11,100	10,400	9,330	8,110
30	7,260	---	0.00	1,970	---	2,760	1,170	4,150	9,050	11,100	9,160	---
31	7,490	---	0.00	2,670	---	2,290	---	4,770	---	11,100	6,730	---
TOTAL	290,050	---	---	43,427.00	33,125	---	---	105,719	---	---	---	---
MEAN	9,356	---	---	1,401	1,183	---	---	3,410	---	---	---	---
MAX	13,000	---	---	3,430	2,720	---	---	8,080	---	---	---	---
MIN	6,940	---	---	0.00	63	---	---	146	---	---	---	---
AC-FT	575,300	---	---	86,140	65,700	---	---	209,700	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	2,298	1,082	743	1,243	1,389	1,633	1,215	832	2,035	2,473	2,913	2,703
MAX	10,390	6,869	5,519	7,486	10,080	10,320	8,198	3,410	6,053	7,376	10,750	9,357
(WY)	(1996)	(1970)	(1995)	(1970)	(1983)	(1983)	(1983)	(2005)	(1982)	(1974)	(1974)	(1995)
MIN	84.7	23.9	0.00	2.91	0.00	5.68	10.0	10.0	192	80.7	228	370
(WY)	(1973)	(1997)	(2001)	(1982)	(2001)	(1990)	(1967)	(1967)	(1979)	(1981)	(1972)	(1972)

SUMMARY STATISTICS

ANNUAL MEAN
HIGHEST ANNUAL MEAN
LOWEST ANNUAL MEAN
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
ANNUAL RUNOFF (AC-FT)
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

WATER YEARS 1966 - 2005

1,638
5,203
296
21,400
0.00
0.00
1,187,000
5,280
504
9.8

Mar 27, 1970
May 17, 1981
May 20, 1981

e Estimated

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293214 MEADE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°38'10", long 81°55'48", in NE ¼ NW ¼ NE ¼ sec.20 T.44 S., R.24 E., Lee County, Hydrologic Unit 0300205, near left bank on upstream side of containment wall, 20 ft east of bridge wingwall, on Viscaya Parkway, 100 ft west of SE 21st Avenue, and 1.2 mi upstream from Caloosahatchee River at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1986 to current year.

REVISED RECORDS.--WDR FL-99-2A, 1997, 1998.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department Bench Mark).

REMARKS.--No estimated discharges. Records are poor. Zero flow occurs for numerous days, during most water years. Station subjected to major shifting of the stage discharge relationship based on heavy debris buildup on carp grates and installation/removal of stoplogs, which are installed on top of the weir. Discharge for the 2004 water year that was unavailable at the time of WDR FL-04-2A publication is published in the 2005 WDR FL-05-2A report.

ANNUAL MEAN and RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	0.09	0.98	5.2	4.8	4.5	1.6	15	0.03	4.2	54	27
2	13	0.04	1.1	5.0	4.2	4.5	1.1	7.6	0.02	4.8	79	20
3	11	1.1	1.4	4.8	3.8	4.1	0.95	6.0	0.01	5.0	73	16
4	8.7	2.1	1.5	4.5	3.3	4.0	0.94	5.2	0.03	7.3	127	16
5	7.0	2.1	1.9	4.0	2.9	3.7	0.95	4.3	0.02	7.6	113	19
6	5.5	3.3	1.7	3.9	2.8	3.5	0.90	3.9	0.10	8.6	103	28
7	4.5	3.7	1.1	3.8	2.4	3.5	0.95	3.5	4.3	8.0	78	25
8	4.3	3.3	1.3	4.3	1.8	2.9	1.0	2.7	12	7.7	64	21
9	3.9	3.2	1.5	4.2	1.7	2.5	1.4	2.5	13	7.2	49	19
10	3.5	4.2	2.4	3.7	2.0	2.3	1.5	2.5	9.3	7.2	35	18
11	3.2	5.3	2.6	2.8	2.0	2.1	1.3	2.5	7.7	14	21	12
12	3.0	5.7	2.5	2.8	2.0	2.5	5.8	2.4	7.1	26	14	9.0
13	3.0	6.5	2.1	2.5	2.0	2.5	5.4	2.1	10	22	45	7.2
14	3.0	6.8	13	2.5	1.8	2.5	3.9	2.0	29	20	64	6.2
15	2.8	6.7	12	2.5	3.6	2.5	3.0	1.4	24	19	38	5.2
16	1.9	6.9	9.6	2.6	2.6	2.8	3.0	1.5	22	18	22	5.0
17	1.8	6.4	17	2.5	2.1	2.6	2.8	1.7	13	20	18	5.0
18	1.8	6.3	13	11	1.7	2.1	2.5	1.5	10	19	16	5.1
19	1.7	9.7	8.0	11	1.8	1.9	2.4	1.7	6.0	21	12	4.7
20	3.6	7.2	6.2	7.0	2.3	1.6	2.5	1.8	4.3	18	7.3	4.5
21	3.1	4.9	5.6	5.2	2.4	1.7	2.4	1.5	3.1	15	2.8	5.6
22	2.2	4.0	5.5	4.3	2.5	2.1	2.2	1.1	2.5	17	e0.23	6.9
23	1.6	3.2	5.5	3.8	2.2	1.7	2.3	0.52	2.2	21	e1.9	7.3
24	1.3	3.0	6.4	3.5	2.2	1.5	2.0	0.49	3.6	21	6.2	6.8
25	0.98	3.0	6.6	3.4	7.9	1.6	1.9	0.39	3.5	24	34	5.7
26	0.90	2.9	6.4	3.2	11	1.9	1.7	0.27	2.7	27	21	8.1
27	0.90	2.6	6.0	3.6	7.6	1.9	1.6	0.28	2.5	28	34	9.7
28	0.82	2.4	5.7	3.0	5.8	1.9	1.3	0.24	3.1	41	59	6.1
29	1.6	1.2	5.5	2.5	4.9	2.0	1.6	0.20	3.4	51	50	4.8
30	0.63	0.69	5.5	2.8	---	2.0	3.5	0.09	4.2	33	41	4.5
31	0.24	---	5.5	4.0	---	2.0	---	0.05	---	34	32	---
TOTAL	116.47	118.52	165.08	129.9	98.1	78.9	64.39	76.93	202.71	576.6	1,314.43	338.4
MEAN	3.76	3.95	5.33	4.19	3.38	2.55	2.15	2.48	6.76	18.6	42.4	11.3
MAX	15	9.7	17	11	11	4.5	5.8	15	29	51	127	28
MIN	0.24	0.04	0.98	2.5	1.7	1.5	0.90	0.05	0.01	4.2	0.23	4.5
AC-FT	231	235	327	258	195	156	128	153	402	1,140	2,610	671

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	5.71	3.52	3.84	3.89	2.70	2.55	1.72	1.81	9.64	13.7	16.1	11.2
MAX	22.5	20.7	28.8	9.98	16.3	10.6	5.06	5.05	24.8	29.0	51.0	22.9
(WY)	(2001)	(2003)	(2003)	(1999)	(1998)	(2003)	(2003)	(1997)	(1995)	(1995)	(2003)	(1995)
MIN	0.00	0.08	0.05	0.43	0.11	0.17	0.00	0.01	1.27	1.59	3.20	4.14
(WY)	(1989)	(1990)	(1997)	(2001)	(1994)	(1995)	(1990)	(1993)	(1988)	(1996)	(1991)	(1992)

CALOOSAHATCHEE RIVER

02293214 MEADE CANAL AT CAPE CORAL, FL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	4,391.92		3,280.43			
ANNUAL MEAN	12.0		8.96		6.50	
HIGHEST ANNUAL MEAN					15.5	2003
LOWEST ANNUAL MEAN					2.28	1993
HIGHEST DAILY MEAN	149	Aug 10	127	Aug 4	321	Jul 23, 2001
LOWEST DAILY MEAN	0.00	Jul 2	0.01	Jun 3	0.00**	
ANNUAL SEVEN-DAY MINIMUM	0.55	May 12	0.04	May 30	0.00**	
MAXIMUM PEAK FLOW			145	Aug 4	406	Jul 23, 2001
MAXIMUM PEAK STAGE			6.67	Aug 4	7.73	Jul 23, 2001
INSTANTANEOUS LOW FLOW			0.00	Jun 3	0.00**	
ANNUAL RUNOFF (AC-FT)	8,710		6,510		4,710	
10 PERCENT EXCEEDS	30		21		17	
50 PERCENT EXCEEDS	6.2		3.7		2.5	
90 PERCENT EXCEEDS	1.3		1.1		0.00	

e Estimated

** Many days during water years 1989-2003.

DISCHARGE FOR THE 2004 WATER YEAR THAT WAS UNAVAILABLE AT THE TIME OF WRD FL-04-2A PUBLICATION IS PUBLISHED IN THE 2005 WDR FL-05-2A REPORT

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.28	5.26	5.23	5.26	5.22	5.29	5.29	5.29	5.59	5.35	5.38	5.24
2	5.27	5.26	5.23	5.25	5.22	5.28	5.31	5.28	5.83	5.33	5.35	5.24
3	5.27	5.27	5.23	5.24	5.22	5.27	5.29	5.29	6.16	5.31	5.33	5.36
4	5.26	5.27	5.23	5.24	5.23	5.27	5.28	5.38	6.31	5.29	5.30	5.66
5	5.26	5.27	5.23	5.24	5.21	5.26	5.28	5.37	5.94	5.29	5.33	5.46
6	5.25	5.23	5.23	5.24	5.21	5.26	5.27	5.34	5.86	5.28	5.32	5.38
7	5.23	5.22	5.23	5.25	5.22	5.26	5.27	5.32	5.78	5.27	5.32	5.34
8	5.23	5.22	5.24	5.24	5.22	5.26	5.34	5.30	5.62	5.30	5.32	5.33
9	5.23	5.22	5.24	5.24	5.22	5.32	5.30	5.29	5.56	5.83	5.43	5.30
10	5.23	5.21	5.24	5.24	5.22	5.35	5.28	5.28	5.68	5.70	5.53	5.28
11	5.25	5.21	5.24	5.23	5.21	5.32	5.27	5.27	6.25	5.60	5.45	5.28
12	5.30	5.22	5.22	5.23	5.20	5.30	5.26	5.27	6.04	5.52	5.37	5.27
13	5.29	5.22	5.22	5.23	5.21	5.29	5.26	5.26	5.87	5.55	5.34	5.27
14	5.29	5.23	5.22	5.24	5.21	5.28	5.25	5.26	5.67	5.53	5.32	5.27
15	5.29	5.24	5.21	5.24	5.21	5.28	5.24	5.28	5.63	5.54	5.30	5.27
16	5.29	5.23	5.20	5.23	5.21	5.27	5.23	5.26	5.56	5.57	5.31	5.27
17	5.30	5.23	5.21	5.22	5.22	5.56	5.23	5.26	5.50	5.53	5.34	5.27
18	5.30	5.23	5.22	5.22	5.22	5.68	5.23	5.25	5.44	5.48	5.33	5.27
19	5.31	5.23	5.22	5.22	5.20	5.53	5.23	5.24	5.40	5.40	5.31	5.26
20	5.31	5.22	5.21	5.22	5.20	5.45	5.23	5.24	5.36	5.37	5.29	5.27
21	5.31	5.21	5.21	5.23	5.21	5.39	5.23	5.24	5.35	5.34	5.28	5.29
22	5.32	5.21	5.21	5.23	5.21	5.36	5.22	5.24	5.31	5.34	5.27	5.32
23	5.26	5.21	5.23	5.24	5.21	5.36	5.22	5.24	5.32	5.38	5.26	5.34
24	5.24	5.21	5.24	5.22	5.22	5.35	5.23	5.24	5.34	5.34	5.26	5.36
25	5.23	5.24	5.31	5.23	5.27	5.33	5.22	5.24	5.32	5.36	5.26	5.33
26	5.24	5.22	5.39	5.23	5.26	5.32	5.21	5.28	5.31	5.49	5.24	5.33
27	5.24	5.22	5.32	5.23	5.35	5.31	5.57	5.26	5.32	5.51	5.27	5.34
28	5.25	5.23	5.28	5.23	5.33	5.32	5.38	5.25	5.34	5.41	5.28	5.33
29	5.25	5.23	5.27	5.23	---	5.30	5.32	5.24	5.39	5.35	5.26	5.38
30	5.25	5.23	5.26	5.23	---	5.30	5.29	5.24	5.39	5.36	5.25	5.50
31	5.26	---	5.26	5.23	---	5.29	---	5.34	---	5.39	5.25	---
TOTAL	163.29	156.90	162.48	162.25	146.34	165.41	158.23	163.54	168.44	168.31	164.85	159.81
MEAN	5.27	5.23	5.24	5.23	5.23	5.34	5.27	5.28	5.61	5.43	5.32	5.33
MAX	5.32	5.27	5.39	5.26	5.35	5.68	5.57	5.38	6.31	5.83	5.53	5.66
MIN	5.23	5.21	5.20	5.22	5.20	5.26	5.21	5.24	5.31	5.27	5.24	5.24

02293214 MEADE CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.0	3.0	4.3	2.0	5.2	3.3	5.0	24	9.1	8.7	2.5
2	3.5	3.0	3.0	4.0	2.0	4.3	4.4	4.9	43	7.8	6.9	2.7
3	3.5	3.4	3.1	3.8	2.2	3.9	3.4	5.6	82	6.7	5.7	11
4	3.2	3.5	3.0	3.5	2.4	4.2	3.0	10	98	5.7	4.4	30
5	3.0	4.7	3.0	3.4	1.7	3.7	2.8	9.5	52	5.3	6.0	15
6	2.5	3.6	3.0	3.2	1.6	3.5	2.4	8.2	44	4.9	5.3	9.6
7	1.6	3.0	3.2	3.3	1.8	3.3	2.5	6.6	37	4.4	5.4	7.7
8	1.5	3.0	3.5	3.2	2.0	3.3	5.9	5.3	24	6.6	5.7	6.7
9	1.5	2.8	3.4	3.0	2.0	5.9	4.0	4.8	19	45	13	5.4
10	1.5	2.5	3.6	3.0	2.0	7.3	3.0	4.5	28	33	19	4.7
11	2.3	2.7	3.4	2.6	1.3	5.6	2.5	4.3	91	25	14	4.5
12	5.0	3.0	2.6	2.5	1.0	4.5	2.2	4.1	63	19	8.8	4.6
13	4.7	3.0	2.5	2.4	1.4	4.0	2.1	3.5	44	21	7.0	4.6
14	4.5	3.6	2.7	3.2	1.4	3.4	1.6	3.4	27	19	5.7	4.6
15	4.5	3.9	1.7	3.0	1.2	3.0	1.1	4.3	24	20	4.8	4.5
16	4.5	3.5	1.5	2.5	1.1	2.5	0.61	3.1	19	22	5.5	4.4
17	5.0	3.4	2.1	2.1	1.4	21	0.37	2.9	15	19	7.2	4.4
18	5.2	3.5	2.5	1.9	1.3	27	0.41	2.4	11	16	6.3	4.3
19	5.4	3.5	2.5	2.0	0.66	16	0.49	2.0	8.4	11	5.3	4.0
20	5.5	3.0	2.2	2.2	0.64	11	0.43	2.0	6.7	8.9	4.3	4.5
21	5.6	2.7	2.0	2.5	0.83	8.1	0.42	2.0	7.2	6.8	3.9	5.5
22	6.2	2.5	2.2	2.5	0.99	6.5	0.34	2.0	7.7	7.2	3.4	6.9
23	2.8	2.5	2.9	3.2	1.1	6.3	0.27	2.0	8.2	8.9	3.4	7.8
24	2.0	2.5	3.5	2.2	1.3	5.9	0.54	1.6	8.9	7.1	3.5	8.9
25	1.7	3.7	7.5	2.4	4.1	5.0	0.19	1.3	7.7	8.2	3.4	7.3
26	2.0	2.7	11	2.5	3.7	4.6	0.17	3.4	6.7	16	2.6	7.3
27	2.1	2.5	7.2	2.5	7.9	4.5	21	2.5	7.5	17	3.8	8.1
28	2.4	3.1	5.3	2.6	6.9	4.8	8.7	2.0	8.6	10	4.3	8.1
29	2.5	3.1	4.8	2.4	---	4.2	5.7	1.7	11	7.0	3.5	11
30	2.7	3.0	4.5	2.5	---	3.9	4.5	1.5	11	7.7	3.0	19
31	3.0	---	4.5	2.3	---	3.6	---	6.4	---	9.2	2.8	---
TOTAL	105.3	93.9	110.9	86.7	57.92	200.0	88.34	122.8	844.6	414.5	186.6	229.6
MEAN	3.40	3.13	3.58	2.80	2.07	6.45	2.94	3.96	28.2	13.4	6.02	7.65
MAX	6.2	4.7	11	4.3	7.9	27	21	10	98	45	19	30
MIN	1.5	2.5	1.5	1.9	0.64	2.5	0.17	1.3	6.7	4.4	2.6	2.5
AC-FT	209	186	220	172	115	397	175	244	1,680	822	370	455

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

	5.59	3.49	3.82	3.83	2.67	2.75	1.78	1.92	10.6	13.7	15.5	11.0
MEAN	5.59	3.49	3.82	3.83	2.67	2.75	1.78	1.92	10.6	13.7	15.5	11.0
MAX	22.5	20.7	28.8	9.98	16.3	10.6	5.06	5.05	28.2	29.0	51.0	22.9
(WY)	(2001)	(2003)	(2003)	(1999)	(1998)	(2003)	(2003)	(1997)	(2005)	(1995)	(2003)	(1995)
MIN	0.00	0.08	0.05	0.43	0.11	0.17	0.00	0.01	1.27	1.59	3.20	4.14
(WY)	(1989)	(1990)	(1997)	(2001)	(1994)	(1995)	(1990)	(1993)	(1988)	(1996)	(1991)	(1992)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	3,190.46	2,541.16	
ANNUAL MEAN	8.72	6.96	6.52
HIGHEST ANNUAL MEAN			15.5
LOWEST ANNUAL MEAN			2.28
HIGHEST DAILY MEAN	127	98	321
LOWEST DAILY MEAN	0.01	0.17	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.04	0.34	0.00**
MAXIMUM PEAK FLOW		136	406
MAXIMUM PEAK STAGE		6.60	7.73
INSTANTANEOUS LOW FLOW		0.01	0.00**
ANNUAL RUNOFF (AC-FT)	6,330	5,040	4,730
10 PERCENT EXCEEDS	21	15	17
50 PERCENT EXCEEDS	3.5	3.8	2.6
90 PERCENT EXCEEDS	1.5	1.7	0.00

** Many days during water years 1989-2003.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293230 WHISKEY CREEK AT FT. MYERS, FL

LOCATION.--Lat 26°34'27", long 81°53'29", in NW ¼ NW ¼ SE ¼, sec.10, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090205, 300 ft upstream from mouth on left bank, above spillway at Whiskey Creek Drive, 1.4 mi south of Colonial Boulevard.

DRAINAGE AREA.--Approximately 9 mi sq. Information provided by Johnson Engineering, Inc. 1979.

PERIOD OF RECORD.--April 1994 to current year.

GAGE.--Satellite data collection platform with water-stage shaft encoder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge for all periods when the vertical gates are opened are not included. Formerly published as Whiskey Creek at Whiskey Creek Drive near Ft. Myers, Fl. Days of zero flow occurred during water years 1994, 1995 and 1997.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 6 complete water years of discharge (1995-98, 2002, 2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	3.06	3.05	3.07	3.11	3.09	3.13	3.13	3.34	3.22	3.26	3.15
2	3.08	3.06	3.05	3.08	3.10	3.09	3.20	3.12	3.31	3.19	3.23	3.14
3	3.08	3.05	3.05	3.08	3.10	3.09	3.16	3.12	3.56	3.18	3.20	3.25
4	3.08	3.05	3.05	3.07	3.10	3.09	3.14	3.12	3.42	3.18	3.19	3.27
5	3.07	3.06	3.04	3.07	3.10	3.08	3.13	3.12	3.33	3.18	3.35	3.16
6	3.07	3.04	3.04	3.07	3.10	3.08	3.13	3.11	3.26	3.18	3.22	3.14
7	3.06	3.04	3.04	3.09	3.10	3.08	3.13	3.12	3.22	3.17	3.23	3.13
8	3.06	3.04	3.05	3.09	3.11	3.08	3.18	3.12	3.24	3.24	3.39	3.12
9	3.06	3.05	3.04	3.10	3.11	3.17	3.15	3.12	3.26	3.62	3.34	3.12
10	3.07	3.04	3.04	3.10	3.11	3.14	3.15	3.12	3.43	3.37	3.25	3.11
11	3.08	3.04	3.03	3.09	3.10	3.11	3.14	3.12	---	3.35	3.22	3.10
12	3.12	3.04	3.02	3.08	3.09	3.11	3.14	3.14	---	3.32	3.22	3.10
13	3.09	3.05	3.02	3.08	3.09	3.11	3.14	3.13	---	3.28	3.24	3.09
14	3.08	3.06	3.02	3.09	3.09	3.10	3.14	3.13	---	3.27	3.21	3.08
15	3.07	3.05	3.00	3.09	3.09	3.10	3.14	3.13	3.23	3.30	3.22	3.08
16	3.07	3.05	3.00	3.08	3.09	3.10	3.15	3.12	3.21	3.31	3.18	3.08
17	3.07	3.05	3.01	3.08	3.08	3.38	3.14	3.12	3.20	3.27	3.17	3.08
18	3.07	3.05	3.02	3.08	3.08	3.24	3.14	3.11	3.20	3.25	3.17	3.08
19	3.07	3.05	3.01	3.08	3.08	3.18	3.14	3.10	3.19	3.26	3.17	3.07
20	3.08	3.05	3.00	3.08	3.08	3.16	3.14	3.08	3.20	3.24	3.16	3.07
21	3.06	3.05	3.00	3.07	3.07	3.14	3.14	3.08	3.20	3.20	3.15	3.08
22	3.06	3.05	3.01	3.07	3.07	3.14	3.14	3.09	3.21	3.19	3.17	3.09
23	3.07	3.06	3.03	3.08	3.06	3.15	3.14	3.08	3.23	3.17	3.17	3.16
24	3.06	3.06	3.05	3.07	3.06	3.14	3.13	3.09	3.22	3.17	3.17	3.19
25	3.06	3.10	3.13	3.08	3.20	3.13	3.14	3.09	3.20	3.37	3.16	3.10
26	3.06	3.07	3.11	3.08	3.09	3.13	3.14	3.09	3.20	3.31	3.16	3.09
27	3.06	3.07	3.07	3.08	3.17	3.13	3.23	3.09	3.23	3.21	3.20	3.09
28	3.06	3.07	3.07	3.08	3.11	3.19	3.13	3.09	3.26	3.26	3.19	3.21
29	3.06	3.06	3.07	3.08	---	3.14	3.12	3.09	3.37	3.22	3.17	3.21
30	3.06	3.06	3.07	3.08	---	3.14	3.12	3.08	3.27	3.30	3.16	3.17
31	3.06	---	3.08	3.09	---	3.14	---	3.15	---	3.25	3.15	---
TOTAL	95.20	91.63	94.27	95.51	86.74	97.15	94.34	96.40	---	101.03	99.47	93.81
MEAN	3.07	3.05	3.04	3.08	3.10	3.13	3.14	3.11	---	3.26	3.21	3.13
MAX	3.12	3.10	3.13	3.10	3.20	3.38	3.23	3.15	---	3.62	3.39	3.27
MIN	3.06	3.04	3.00	3.07	3.06	3.08	3.12	3.08	---	3.17	3.15	3.07

02293230 WHISKEY CREEK AT FT. MYERS, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	2.8	2.8	5.3	8.0	6.4	8.5	8.1	55	20	35	23
2	3.3	2.7	2.6	5.6	7.2	5.8	19	6.9	42	16	28	21
3	2.9	2.2	2.5	5.4	7.5	5.7	10	6.5	e100	14	21	55
4	2.9	2.1	2.6	4.8	7.4	5.8	8.3	6.6	66	13	22	51
5	2.7	2.4	2.6	4.7	6.6	4.8	7.0	6.4	42	14	56	26
6	2.3	1.7	2.7	5.2	6.9	4.8	6.5	6.1	28	13	26	22
7	2.1	1.6	2.7	7.4	7.4	4.6	7.4	6.6	20	12	27	20
8	1.8	1.4	2.9	7.6	7.8	4.7	15	6.6	24	30	87	19
9	2.1	1.9	2.4	8.0	8.6	18	9.6	6.7	29	167	77	19
10	2.3	1.6	2.5	7.7	9.0	12	9.2	6.7	69	84	52	17
11	3.2	2.0	2.1	7.1	6.7	8.7	9.0	7.2	e246	76	45	15
12	6.5	2.1	1.7	6.3	6.2	7.9	8.7	10	e184	68	44	15
13	3.6	2.3	1.7	5.8	5.6	7.8	8.7	9.0	e38	55	46	14
14	2.9	3.2	1.5	7.1	5.8	7.5	7.9	8.8	e26	52	40	12
15	2.8	2.8	0.91	7.4	5.8	7.2	8.2	8.5	23	61	42	12
16	2.4	2.6	1.0	6.2	5.9	6.8	9.2	6.7	19	61	33	13
17	3.1	2.7	1.4	5.6	5.3	75	9.0	6.5	18	48	31	13
18	3.5	2.8	1.4	5.4	5.1	30	8.0	5.7	17	44	33	14
19	3.5	2.5	1.1	5.3	4.7	18	9.4	4.6	16	45	30	12
20	3.6	2.7	0.90	5.5	5.1	15	9.3	3.3	16	41	27	13
21	2.9	2.6	1.00	5.1	3.7	12	9.4	3.3	16	31	26	14
22	2.4	2.8	1.3	5.0	3.6	11	9.3	3.8	18	27	29	15
23	2.9	3.0	2.0	5.7	3.4	12	9.3	3.4	22	24	30	31
24	2.8	3.1	3.5	5.0	3.4	11	9.1	3.7	20	22	28	34
25	2.8	7.6	17	6.1	28	9.4	9.4	3.8	17	86	28	18
26	2.8	4.3	10	6.3	5.8	9.2	9.4	4.1	17	53	25	15
27	2.7	3.7	4.9	6.0	18	7.9	26	4.3	22	28	34	15
28	2.6	3.7	4.8	6.4	8.2	17	8.5	4.2	29	40	32	49
29	2.7	3.2	4.6	6.0	---	10	7.2	3.8	56	28	27	38
30	2.8	3.0	5.0	6.1	---	9.3	6.6	3.4	29	49	25	29
31	2.7	---	5.4	6.6	---	9.3	---	13	---	34	24	---
TOTAL	92.4	83.1	99.51	187.7	206.7	374.6	292.1	188.3	1,324	1,356	1,110	664
MEAN	2.98	2.77	3.21	6.05	7.38	12.1	9.74	6.07	44.1	43.7	35.8	22.1
MAX	6.5	7.6	17	8.0	28	75	26	13	246	167	87	55
MIN	1.8	1.4	0.90	4.7	3.4	4.6	6.5	3.3	16	12	21	12
AC-FT	183	165	197	372	410	743	579	373	2,630	2,690	2,200	1,320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	9.20	4.66	4.41	4.64	3.20	4.56	4.02	3.07	17.9	25.4	23.8	25.3
MAX	16.3	9.22	10.0	8.10	7.38	12.1	9.74	6.18	44.1	43.7	37.5	50.0
(WY)	(1997)	(2000)	(1998)	(1996)	(2005)	(2005)	(2005)	(1996)	(2005)	(2005)	(2001)	(2001)
MIN	2.98	1.41	1.52	0.88	0.72	1.00	1.35	0.71	2.21	14.4	10.7	13.4
(WY)	(2005)	(1997)	(1997)	(2001)	(2001)	(1995)	(1999)	(1994)	(1994)	(2002)	(1997)	(1994)

SUMMARY STATISTICS

FOR 2005 WATER YEAR

WATER YEARS 1994 - 2005

ANNUAL TOTAL	5,978.41	
ANNUAL MEAN	16.4	11.8
HIGHEST ANNUAL MEAN		16.4
LOWEST ANNUAL MEAN		8.88
HIGHEST DAILY MEAN	246	380
LOWEST DAILY MEAN	0.90	0.00**
ANNUAL SEVEN-DAY MINIMUM	1.1	0.00**
MAXIMUM PEAK FLOW	566	1,280
MAXIMUM PEAK STAGE	4.54	4.87
ANNUAL RUNOFF (AC-FT)	11,860	8,570
10 PERCENT EXCEEDS	40	26
50 PERCENT EXCEEDS	7.8	5.4
90 PERCENT EXCEEDS	2.6	1.1

e Estimated

** Many days during water years 1994, 1995, 1997.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

CHARLOTTE HARBOR AND COASTAL AREA

02293240 ARIES CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°36'00", long 81°59'39", in SE ¼ SW ¼ NE ¼ sec.34, T.44 S., R.23 E., Lee County, Hydrologic Unit 03090205, on right wingwall on downstream side of bridge at SW 28th Street, 0.33 mi west of Skyline Boulevard, and 4.6 mi upstream from Caloosahatchee River at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1989 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Zero flow occurs for numerous days, during most water years. Station subjected to major shifting of the stage discharge relationship based on heavy debris build up on carp grates and installation/removal of stoplogs, which are installed on top of the weir.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 16 complete water years of discharge (1990-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.33	3.15	3.17	3.27	3.16	3.37	3.29	3.50	3.70	3.35	3.59	3.35
2	3.32	3.15	3.17	3.27	3.15	3.36	3.32	3.52	3.95	3.34	3.58	3.32
3	3.31	3.15	3.18	3.27	3.14	3.34	3.31	3.53	4.25	3.32	3.58	3.34
4	3.31	3.15	3.18	3.27	3.14	3.35	3.31	3.61	4.58	3.31	3.57	3.48
5	3.31	3.16	3.17	3.27	3.13	3.35	3.31	3.51	3.97	3.31	3.55	3.41
6	3.31	3.15	3.16	3.27	3.12	3.34	3.30	3.46	3.77	3.31	3.49	3.39
7	3.31	3.15	3.16	3.28	3.12	3.34	3.31	3.42	3.71	3.31	3.55	3.36
8	3.31	3.15	3.17	3.30	3.12	3.35	3.36	3.38	3.79	3.35	3.58	3.35
9	3.32	3.15	3.19	3.30	3.12	3.41	3.37	3.36	3.86	4.05	3.63	3.34
10	3.33	3.12	3.19	3.30	3.13	3.50	3.36	3.35	4.32	3.94	3.63	3.32
11	3.34	3.11	3.17	3.26	3.12	3.49	3.35	3.34	5.15	3.77	3.61	3.31
12	3.43	3.11	3.14	3.21	3.12	3.47	3.34	3.32	4.46	3.67	3.53	3.30
13	3.41	3.11	3.12	3.20	3.12	3.46	3.34	3.32	4.12	3.84	3.49	3.30
14	3.40	3.12	3.11	3.21	3.12	3.45	3.33	3.33	3.98	4.01	3.48	3.30
15	3.39	3.13	3.10	3.22	3.12	3.44	3.32	3.35	3.99	4.35	3.48	3.29
16	3.36	3.13	3.09	3.23	3.12	3.44	3.31	3.34	3.92	4.40	3.47	3.30
17	3.35	3.13	3.10	3.24	3.13	3.81	3.30	3.33	3.84	4.25	3.47	3.32
18	3.34	3.13	3.10	3.24	3.13	3.99	3.30	3.33	3.76	4.12	3.48	3.36
19	3.34	3.14	3.10	3.23	3.13	3.76	3.30	3.32	3.71	4.02	3.50	3.34
20	3.34	3.13	3.11	3.23	3.13	3.62	3.31	3.31	3.68	3.97	3.48	3.34
21	3.34	3.13	3.11	3.24	3.13	3.56	3.31	3.30	3.64	3.84	3.47	3.36
22	3.35	3.12	3.11	3.25	3.12	3.54	3.31	3.30	3.53	3.72	3.46	3.34
23	3.35	3.12	3.13	3.27	3.12	3.54	3.31	3.31	3.50	3.68	3.65	3.42
24	3.35	3.13	3.15	3.27	3.12	3.55	3.31	3.31	3.52	3.64	4.00	3.86
25	3.33	3.19	3.23	3.27	3.18	3.52	3.31	3.30	3.51	3.73	3.73	3.62
26	3.26	3.19	3.37	3.25	3.20	3.42	3.30	3.29	3.50	4.16	3.47	3.53
27	3.21	3.18	3.31	3.21	3.34	3.37	3.94	3.29	3.45	4.09	3.47	3.51
28	3.17	3.18	3.29	3.19	3.40	3.37	3.72	3.29	3.37	3.82	3.53	3.49
29	3.17	3.18	3.28	3.18	---	3.35	3.58	3.27	3.34	3.72	3.48	3.58
30	3.15	3.17	3.27	3.17	---	3.32	3.51	3.27	3.35	3.66	3.45	3.84
31	3.14	---	3.27	3.17	---	3.30	---	3.38	---	3.61	3.41	---
TOTAL	102.68	94.31	98.40	100.54	88.18	107.48	101.04	104.24	115.22	116.66	109.86	102.37
MEAN	3.31	3.14	3.17	3.24	3.15	3.47	3.37	3.36	3.84	3.76	3.54	3.41
MAX	3.43	3.19	3.37	3.30	3.40	3.99	3.94	3.61	5.15	4.40	4.00	3.86
MIN	3.14	3.11	3.09	3.17	3.12	3.30	3.29	3.27	3.34	3.31	3.41	3.29

02293240 ARIES CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.7	5.5	8.4	8.5	22	14	29	65	14	39	16
2	9.9	7.7	5.2	8.4	7.4	21	16	31	90	12	39	13
3	7.3	7.1	5.2	8.4	6.2	19	15	33	132	9.3	40	16
4	5.1	6.9	5.5	8.4	6.0	20	13	43	182	7.4	44	29
5	4.8	7.3	4.9	8.4	5.2	19	13	31	82	6.5	46	22
6	4.8	7.3	4.2	8.7	4.8	18	13	26	54	5.6	37	20
7	4.8	6.9	4.2	9.6	4.8	18	14	23	48	14	42	17
8	4.8	6.9	4.5	11	4.2	19	18	19	58	14	45	16
9	5.2	6.0	5.3	11	4.5	25	19	17	68	92	50	15
10	5.9	4.5	5.5	16	4.9	34	18	17	138	76	49	13
11	7.3	3.6	7.6	17	4.4	32	17	16	292	69	52	12
12	14	3.6	7.3	13	4.2	30	17	15	147	58	47	12
13	13	3.6	5.3	11	3.6	29	16	14	94	75	42	12
14	12	4.0	3.9	11	3.6	28	15	15	76	93	41	11
15	10	4.5	2.9	12	3.6	26	15	17	81	139	39	11
16	8.8	4.5	1.8	12	3.8	26	13	16	74	142	38	11
17	7.9	4.2	1.7	12	4.2	71	13	15	65	117	38	14
18	7.3	4.2	2.6	11	3.8	104	13	15	58	97	39	17
19	6.9	4.6	3.6	10	3.8	76	13	14	53	84	41	15
20	6.9	4.4	4.7	9.9	3.5	56	13	13	51	79	38	16
21	7.2	3.4	5.1	9.7	3.4	46	13	12	57	79	36	17
22	8.0	3.0	3.7	10	2.9	42	14	13	46	67	34	16
23	8.0	3.0	3.1	11	2.4	40	13	14	41	56	58	24
24	7.7	3.4	2.6	11	2.4	40	13	14	41	47	98	66
25	16	7.5	6.9	11	6.0	41	13	18	39	54	67	38
26	18	7.8	17	13	7.9	33	13	19	36	109	38	30
27	13	6.5	12	14	20	27	87	18	29	100	36	26
28	9.9	6.2	10	12	25	26	54	16	19	61	42	22
29	9.0	6.2	9.2	9.6	---	23	37	13	16	50	35	30
30	7.8	5.8	8.8	9.3	---	19	29	12	15	44	29	59
31	7.3	---	8.4	9.2	---	16	---	23	---	40	24	---
TOTAL	272.6	162.3	178.2	337.0	165.0	1,046	584	591	2,247	1,910.8	1,343	636
MEAN	8.79	5.41	5.75	10.9	5.89	33.7	19.5	19.1	74.9	61.6	43.3	21.2
MAX	18	7.8	17	17	25	104	87	43	292	142	98	66
MIN	4.8	3.0	1.7	8.4	2.4	16	13	12	15	5.6	24	11
AC-FT	541	322	353	668	327	2,070	1,160	1,170	4,460	3,790	2,660	1,260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

MEAN	15.8	5.76	5.16	8.62	5.87	6.25	3.97	4.08	26.7	41.4	35.8	40.6
MAX	33.2	15.3	20.6	22.3	31.6	33.7	19.5	19.1	74.9	127	86.6	110
(WY)	(1992)	(1999)	(1998)	(1999)	(1998)	(2005)	(2005)	(2005)	(2005)	(1999)	(2004)	(2000)
MIN	2.52	0.01	0.40	1.25	0.74	0.23	0.00	0.00	0.92	7.92	6.02	13.6
(WY)	(1999)	(1997)	(1991)	(1990)	(2001)	(1997)	(1999)	(1994)	(1994)	(1994)	(1994)	(1996)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1990 - 2005

ANNUAL TOTAL	8,356.06	9,472.9	
ANNUAL MEAN	22.8	26.0	16.7
HIGHEST ANNUAL MEAN			27.9
LOWEST ANNUAL MEAN			5.73
HIGHEST DAILY MEAN	217	292	595
LOWEST DAILY MEAN	0.96	1.7	0.00**
ANNUAL SEVEN-DAY MINIMUM	1.3	3.0	0.00**
MAXIMUM PEAK FLOW		391	849
MAXIMUM PEAK STAGE		5.53	7.17
INSTANTANEOUS LOW FLOW		0.94	0.94
ANNUAL RUNOFF (AC-FT)	16,570	18,790	12,110
10 PERCENT EXCEEDS	62	63	42
50 PERCENT EXCEEDS	11	14	6.3
90 PERCENT EXCEEDS	3.6	4.4	0.03

** Many days during water years 1990, 1991, 1994-2002.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293241 SAN CARLOS CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°36'11", long 81°57'48", in NW ¼ SW ¼ NE ¼ sec.36, T.44 S., R.23 E., Lee County, Hydrologic Unit 03090205, near right bank on upstream side of wingwall of bridge on SE 26th Terrace, 300 ft west of Retunda Parkway and 2.4 mi upstream of Caloosahatchee River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1986 to current year.

REVISED RECORDS.--WDR FL-01-2A, 2000.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department bench mark).

REMARKS.--No estimated daily discharges. Records poor. Station is subject to disruption of the stage discharge relationship based on heavy debris buildup on the carp gates, which are installed on top of the weir. Removal of carp gates and stop logs during highflow events also alters the stage discharge relationship. There are many days of no flow during the water year.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.07	5.00	4.99	5.07	4.96	4.64	5.07	5.08	5.35	5.13	5.25	5.03
2	5.05	4.98	4.99	5.05	4.95	4.66	5.09	5.11	5.54	5.11	5.22	5.03
3	5.01	4.98	5.00	5.05	4.92	4.68	5.07	5.12	5.88	5.07	5.15	5.03
4	4.98	4.97	4.98	5.04	4.94	4.74	5.07	5.25	5.98	5.09	5.11	5.09
5	4.97	5.00	4.96	5.04	4.91	4.76	5.07	5.22	5.51	5.10	5.26	5.09
6	4.94	4.99	4.95	5.03	4.86	4.74	5.02	5.19	5.36	5.07	5.39	5.09
7	4.91	4.96	4.95	5.03	4.80	4.77	4.99	5.14	5.32	5.04	5.36	5.06
8	4.91	4.95	4.95	5.04	4.76	4.79	5.11	5.09	5.37	5.11	5.37	5.03
9	4.90	4.94	4.95	5.04	4.69	4.88	5.08	5.08	5.39	5.75	5.40	5.05
10	4.89	4.91	4.97	5.03	4.64	5.06	5.04	5.09	5.55	5.52	5.37	5.02
11	4.90	4.89	4.97	5.00	4.64	5.08	5.04	5.06	6.09	5.38	5.32	4.97
12	5.01	4.90	4.95	4.99	4.61	5.08	5.04	5.04	5.60	5.36	5.24	4.97
13	5.02	4.92	4.95	4.98	4.55	5.04	5.01	5.05	5.44	5.56	5.20	4.98
14	5.01	4.90	4.94	5.03	4.49	5.04	4.98	5.02	5.34	5.57	5.18	4.96
15	5.02	4.93	4.93	5.05	4.44	5.05	4.99	5.03	5.32	5.59	5.17	4.92
16	5.00	4.92	4.92	5.04	4.38	5.04	4.96	5.04	5.26	5.60	5.16	4.93
17	4.98	4.92	4.94	5.02	4.33	5.39	4.90	5.04	5.22	5.41	5.13	4.92
18	4.95	4.91	4.94	5.00	4.33	5.49	4.89	5.01	5.17	5.35	5.10	4.87
19	4.94	4.93	4.93	4.99	4.32	5.29	4.91	4.95	5.14	5.30	5.11	4.86
20	4.93	4.92	4.93	4.99	4.30	5.21	4.87	4.96	5.14	5.25	5.08	4.89
21	4.95	4.89	4.94	5.01	4.25	5.18	4.81	4.94	5.15	5.20	5.05	4.94
22	5.41	4.88	4.94	5.00	4.24	5.17	4.80	4.89	5.13	5.19	5.06	4.97
23	5.20	4.85	4.94	5.02	4.21	5.16	4.76	4.90	5.14	5.16	5.13	5.18
24	5.13	4.84	5.00	5.01	4.16	5.18	4.69	4.93	5.17	5.14	5.11	5.55
25	5.09	4.91	5.11	5.00	4.24	5.17	4.66	4.90	5.14	5.39	5.09	5.26
26	5.07	4.97	5.23	5.01	4.29	5.14	4.64	4.86	5.11	5.67	5.08	5.20
27	5.05	4.97	5.14	5.02	4.45	5.11	5.29	4.85	5.13	5.41	5.10	5.20
28	5.03	4.99	5.11	5.04	4.60	5.12	5.21	4.83	5.15	5.29	5.12	5.18
29	5.03	4.99	5.08	5.02	---	5.12	5.16	4.76	5.14	5.25	5.11	5.34
30	5.03	5.00	5.08	5.01	---	5.08	5.10	4.74	5.14	5.25	5.10	5.74
31	5.01	---	5.08	4.99	---	5.06	---	4.90	---	5.28	5.06	---
TOTAL	155.39	148.11	154.74	155.64	127.26	155.92	149.32	155.07	160.37	164.59	160.58	152.35
MEAN	5.01	4.94	4.99	5.02	4.54	5.03	4.98	5.00	5.35	5.31	5.18	5.08
MAX	5.41	5.00	5.23	5.07	4.96	5.49	5.29	5.25	6.09	5.75	5.40	5.74
MIN	4.89	4.84	4.92	4.98	4.16	4.64	4.64	4.74	5.11	5.04	5.05	4.86

02293241 SAN CARLOS CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	1.5	1.1	5.2	0.07	0.00	4.1	5.6	24	7.3	8.4	0.65
2	3.8	0.56	1.2	3.9	0.00	0.00	4.8	7.0	36	5.8	6.8	0.74
3	2.2	0.53	1.6	3.9	0.00	0.00	4.2	8.0	67	3.8	3.8	0.93
4	0.83	0.14	0.57	3.4	0.00	0.00	3.8	15	73	4.6	2.1	3.7
5	0.34	1.7	0.04	3.4	0.00	0.00	3.9	13	34	5.0	12	3.5
6	0.00	1.3	0.00	3.1	0.00	0.00	1.8	12	23	3.5	18	3.5
7	0.00	0.03	0.00	3.3	0.00	0.00	0.67	8.7	20	2.1	16	1.9
8	0.00	0.00	0.00	3.6	0.00	0.00	5.8	6.0	24	6.1	17	0.79
9	0.00	0.00	0.00	3.4	0.00	0.76	4.3	5.7	25	53	19	1.6
10	0.00	0.00	0.37	2.9	0.00	4.5	2.7	5.8	37	33	17	0.32
11	0.08	0.00	0.26	1.7	0.00	5.7	2.5	4.4	84	22	14	0.00
12	2.2	0.00	0.01	1.1	0.00	5.3	2.6	3.5	41	20	9.4	0.00
13	2.6	0.00	0.00	0.69	0.00	3.7	1.0	3.9	29	35	7.5	0.00
14	2.1	0.00	0.00	3.2	0.00	3.6	0.17	2.7	21	36	6.8	0.00
15	2.6	0.00	0.00	3.8	0.00	4.1	0.34	3.2	19	38	6.0	0.00
16	1.6	0.00	0.00	3.5	0.00	3.6	0.04	3.3	15	40	5.5	0.00
17	0.73	0.00	0.00	2.5	0.00	27	0.00	3.7	13	22	3.9	0.00
18	0.02	0.00	0.00	1.8	0.00	33	0.00	2.0	10	18	3.1	0.00
19	0.00	0.00	0.00	1.1	0.00	18	0.00	0.16	8.4	14	3.7	0.00
20	0.00	0.00	0.00	0.91	0.00	13	0.00	0.06	8.1	11	2.1	0.00
21	1.8	0.00	0.00	2.1	0.00	11	0.00	0.04	8.6	7.7	0.77	0.00
22	27	0.00	0.00	1.7	0.00	10	0.00	0.00	7.8	6.9	1.1	0.00
23	12	0.00	0.00	2.6	0.00	9.3	0.00	0.00	8.3	5.6	4.9	12
24	8.2	0.00	1.7	1.9	0.00	11	0.00	0.00	9.2	4.4	3.9	35
25	6.0	0.00	7.6	1.7	0.00	9.9	0.00	0.00	7.7	24	2.9	13
26	4.9	0.35	14	1.9	0.00	8.4	0.00	0.00	6.1	45	2.7	8.9
27	3.9	0.17	8.8	2.6	0.00	6.3	21	0.00	7.2	20	3.6	8.6
28	3.2	1.1	7.1	3.6	0.00	7.2	13	0.00	8.3	12	4.8	7.6
29	3.3	1.1	5.7	2.8	---	7.1	9.6	0.00	7.6	9.4	4.5	20
30	3.1	1.4	5.4	1.9	---	5.1	6.5	0.00	7.5	9.2	4.0	52
31	2.2	---	5.5	0.99	---	3.9	---	0.61	---	11	2.3	---
TOTAL	99.80	9.88	60.95	80.19	0.07	211.46	92.82	114.37	689.8	535.4	217.57	174.73
MEAN	3.22	0.33	1.97	2.59	0.00	6.82	3.09	3.69	23.0	17.3	7.02	5.82
MAX	27	1.7	14	5.2	0.07	33	21	15	84	53	19	52
MIN	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	6.1	2.1	0.77	0.00
AC-FT	198	20	121	159	0.1	419	184	227	1,370	1,060	432	347

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	6.35	2.48	2.21	2.76	1.50	1.56	0.66	0.71	9.79	11.7	14.3	13.0
MAX	19.8	18.0	14.3	9.77	12.7	6.82	3.09	3.69	34.1	33.8	56.3	39.5
(WY)	(1996)	(2003)	(2003)	(1998)	(1998)	(2005)	(2005)	(2005)	(1995)	(1995)	(2003)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	4.48	2.39
(WY)	(1999)	(2001)	(1991)	(1997)	(1996)	(1995)	(1990)	(1988)	(2001)	(1997)	(1999)	(1987)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	2,204.80	2,287.04	
ANNUAL MEAN	6.02	6.27	5.68
HIGHEST ANNUAL MEAN			13.1
LOWEST ANNUAL MEAN			2.39
HIGHEST DAILY MEAN	80	84	330
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		122	577
MAXIMUM PEAK STAGE		6.49	7.58
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	4,370	4,540	4,120
10 PERCENT EXCEEDS	20	18	15
50 PERCENT EXCEEDS	0.61	2.6	1.4
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1987, 1989-2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293243 COURTNEY CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°34'40", long 81°59'00", in SW ¼ SE ¼ SW ¼ sec.2, T.45 S., R.23 E., Lee County, Hydrologic Unit 03090205, near left bank on upstream side of wing wall of bridge at Mohawk Parkway, 200 ft west of 5th Avenue, 1.07 mi north of West Cape Coral Parkway and 3.15 mi upstream from Caloosahatchee River at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1986 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department bench mark).

REMARKS.--No estimated daily discharges. Records poor. Zero flow occurs for numerous days during all water years. Station subjected to major shifting of the stage discharge relationship based on heavy debris buildup on carp grates and installation/ removal of stoplogs, which are installed on top of the weir. Removal of carp grates and stoplogs during high flow events also alters the stage discharge relationship. Discharge for the 2004 water year that was unavailable at the time of WDR FL-04-2A publication is published in the 2005 WDR FL-05-2A report.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	0.00	0.00	4.5	11	19	0.00	0.28	0.00	5.3	45	28
2	22	0.00	0.00	8.7	10	19	0.00	0.83	0.00	10	67	32
3	25	0.00	0.00	6.4	8.6	16	0.00	1.0	0.00	7.5	70	54
4	21	0.00	0.00	4.4	5.6	13	0.00	2.8	3.2	7.4	80	50
5	18	0.00	0.00	3.1	4.1	15	0.00	1.5	0.51	4.7	63	47
6	14	0.00	0.00	3.5	7.5	11	0.00	0.26	0.00	4.0	66	67
7	11	0.00	0.00	2.6	6.6	8.4	0.00	2.1	5.8	2.7	44	65
8	7.3	0.00	0.00	1.1	3.4	8.0	0.00	1.5	30	0.68	32	54
9	4.2	0.00	0.00	5.2	1.6	6.2	0.00	0.38	38	3.1	24	48
10	5.9	0.00	0.00	5.4	1.7	3.7	0.00	0.00	24	0.83	22	47
11	2.5	0.00	0.00	3.8	0.96	2.7	0.00	0.00	22	0.17	22	39
12	0.89	0.00	0.00	2.4	0.55	7.7	0.00	0.00	13	0.99	16	34
13	0.10	0.00	0.00	2.2	4.8	5.8	0.00	0.00	9.7	0.27	73	29
14	0.00	0.00	0.28	1.4	3.7	3.5	0.00	0.00	29	0.01	122	27
15	0.00	0.00	8.9	0.66	7.1	1.9	0.00	0.00	41	0.00	74	24
16	0.00	0.00	16	4.1	6.2	2.6	0.00	0.00	43	0.01	61	21
17	0.00	0.00	33	3.6	5.1	3.8	0.01	0.00	37	0.02	88	20
18	0.00	0.00	26	14	2.4	2.5	0.00	0.00	33	0.00	92	18
19	0.00	0.00	27	19	2.4	6.0	0.00	0.00	21	0.66	81	17
20	0.00	0.00	20	15	8.7	3.4	0.00	0.00	14	4.9	64	15
21	0.00	0.00	16	9.5	6.9	1.9	0.00	0.00	9.1	7.3	59	16
22	0.00	0.00	13	6.5	5.3	1.1	0.00	0.00	6.9	6.1	57	17
23	0.00	0.00	11	11	3.4	0.22	0.00	0.00	3.6	14	74	15
24	0.00	0.00	12	7.9	3.5	0.00	0.00	0.00	4.5	8.7	79	16
25	0.00	0.00	13	5.2	12	0.00	0.00	0.00	9.9	5.6	76	15
26	0.00	0.00	21	3.8	22	0.00	0.00	0.00	8.7	8.0	38	15
27	0.00	0.00	21	5.1	24	0.00	0.00	0.00	7.1	13	27	19
28	0.00	0.00	18	4.3	22	0.00	0.00	0.00	7.8	16	25	18
29	0.00	0.00	17	2.5	20	0.00	0.00	0.00	5.7	28	22	15
30	0.00	0.00	14	6.8	---	0.00	0.00	0.00	8.5	31	19	14
31	0.00	---	6.3	10	---	0.00	---	0.00	---	28	18	---
TOTAL	159.89	0.00	293.48	183.66	221.11	162.42	0.01	10.65	436.01	218.94	1,700	896
MEAN	5.16	0.00	9.47	5.92	7.62	5.24	0.00	0.34	14.5	7.06	54.8	29.9
MAX	28	0.00	33	19	24	19	0.01	2.8	43	31	122	67
MIN	0.00	0.00	0.00	0.66	0.55	0.00	0.00	0.00	0.00	0.00	16	14
AC-FT	317	0.00	582	364	439	322	0.02	21	865	434	3,370	1,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	11.4	6.03	5.07	7.20	5.71	4.11	1.21	0.93	13.8	23.3	28.8	24.7
MAX	33.7	41.7	34.2	44.0	66.7	39.3	6.09	7.01	59.7	72.2	77.4	54.5
(WY)	(2001)	(2003)	(1998)	(1998)	(1998)	(1998)	(2001)	(2003)	(1999)	(1998)	(2003)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.02
(WY)	(1989)	(1989)	(1988)	(1989)	(1988)	(1989)	(1988)	(1988)	(1988)	(1994)	(1999)	(1987)

02293243 COURTNEY CANAL AT CAPE CORAL, FL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	6,954.39		4,282.17			
ANNUAL MEAN	19.1		11.7		11.2	
HIGHEST ANNUAL MEAN					28.2	1998
LOWEST ANNUAL MEAN					3.51	1988
HIGHEST DAILY MEAN	191	Jun 23	122	Aug 14	220	Jun 26, 1999
LOWEST DAILY MEAN	0.00	Apr 13	0.00	Oct 14	0.00	Nov 18, 1986
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 13	0.00	Oct 14	0.00	Nov 18, 1986
MAXIMUM PEAK FLOW			201	Aug 13	358	Sep 7, 1995
MAXIMUM PEAK STAGE			6.17	Aug 13	7.44	Sep 7, 1995
INSTANTANEOUS LOW FLOW					0.00	May 14, 2001
ANNUAL RUNOFF (AC-FT)	13,790		8,490		8,140	
10 PERCENT EXCEEDS	62		33		34	
50 PERCENT EXCEEDS	8.1		3.7		0.22	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

DISCHARGE FOR THE 2004 WATER YEAR THAT WAS UNAVAILABLE AT THE TIME OF WDR FL-04-2A PUBLICATION IS PUBLISHED IN THE 2005 WDR FL-05-2A REPORT.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.60	4.09	3.91	4.39	4.22	3.93	4.52	4.62	4.94	4.67	4.80	4.57
2	4.55	4.08	3.91	4.40	4.18	3.91	4.50	4.73	5.29	4.60	4.78	4.64
3	4.48	4.02	4.05	4.34	4.17	3.89	4.44	4.79	5.62	4.55	4.69	4.63
4	4.42	4.00	4.08	4.31	4.27	4.04	4.49	4.83	5.73	4.59	4.61	4.72
5	4.42	4.11	4.08	4.28	4.28	4.06	4.52	4.91	5.25	4.62	4.70	4.73
6	4.39	4.12	4.10	4.22	4.25	4.02	4.40	4.99	5.13	4.50	4.69	4.76
7	4.33	4.08	4.10	4.32	4.24	3.97	4.32	4.89	5.09	4.42	4.73	4.69
8	4.38	4.02	4.07	4.27	4.24	4.08	4.49	4.79	5.08	4.54	4.79	4.61
9	4.29	3.99	4.02	4.23	4.21	4.22	4.46	4.84	5.14	5.10	4.84	4.62
10	4.22	3.93	4.14	4.18	4.14	4.42	4.43	4.89	5.50	5.09	4.79	4.54
11	4.16	3.85	4.20	4.18	4.21	4.49	4.46	4.77	5.95	5.03	4.81	4.46
12	4.33	3.94	4.18	4.17	4.11	4.49	4.49	4.70	5.41	4.98	4.78	4.54
13	4.32	3.88	4.15	4.14	4.00	4.44	4.37	4.79	5.25	5.12	4.71	4.61
14	4.28	3.78	4.14	4.26	3.87	4.43	4.29	4.68	5.12	5.17	4.67	4.52
15	4.33	3.79	4.11	4.33	3.79	4.46	4.38	4.60	5.04	5.20	4.72	4.41
16	4.27	3.76	4.07	4.29	3.68	4.41	4.33	4.69	4.96	5.23	4.71	4.48
17	4.19	3.70	4.18	4.27	3.61	4.73	4.23	4.76	4.99	5.08	4.66	4.45
18	4.14	3.63	4.18	4.26	3.71	5.04	4.27	4.65	4.88	5.10	4.60	4.39
19	4.08	3.74	4.12	4.20	3.70	4.88	4.36	4.50	4.81	5.07	4.65	4.42
20	4.00	3.74	4.04	4.17	3.62	4.77	4.30	4.59	4.86	5.01	4.59	4.49
21	3.96	3.67	3.98	4.27	3.55	4.74	4.18	4.52	4.86	4.83	4.54	4.46
22	4.28	3.61	3.90	4.24	3.50	4.72	4.25	4.39	4.64	4.79	4.60	4.47
23	4.31	3.55	3.87	4.27	3.39	4.64	4.18	4.48	4.63	4.73	4.71	4.64
24	4.28	3.50	4.06	4.26	3.28	4.68	4.05	4.58	4.69	4.66	4.68	4.85
25	4.28	3.58	4.23	4.26	3.44	4.69	4.09	4.51	4.64	4.83	4.60	4.61
26	4.26	3.77	4.43	4.24	3.56	4.60	4.16	4.39	4.60	5.11	4.67	4.64
27	4.20	3.83	4.40	4.19	3.74	4.52	4.70	4.47	4.64	4.90	4.68	4.69
28	4.14	3.89	4.38	4.31	3.90	4.57	4.63	4.41	4.66	4.82	4.73	4.57
29	4.22	3.92	4.36	4.28	---	4.60	4.71	4.28	4.61	4.83	4.73	4.63
30	4.22	3.92	4.33	4.25	---	4.51	4.63	4.30	4.62	4.72	4.74	5.02
31	4.15	---	4.43	4.24	---	4.45	---	4.54	---	4.73	4.66	---
TOTAL	132.48	115.49	128.20	132.02	108.86	137.40	131.63	143.88	150.63	150.62	145.66	137.86
MEAN	4.27	3.85	4.14	4.26	3.89	4.43	4.39	4.64	5.02	4.86	4.70	4.60
MAX	4.60	4.12	4.43	4.40	4.28	5.04	4.71	4.99	5.95	5.23	4.84	5.02
MIN	3.96	3.50	3.87	4.14	3.28	3.89	4.05	4.28	4.60	4.42	4.54	4.39

02293243 COURTNEY CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	0.00	0.00	3.8	0.00	0.00	12	8.0	47	21	28	3.2
2	13	0.00	0.00	3.9	0.00	0.00	10	13	77	17	26	7.2
3	9.0	0.00	0.00	1.6	0.00	0.00	7.2	15	112	14	20	6.9
4	5.2	0.00	0.00	0.82	0.07	0.00	9.1	17	123	16	14	12
5	5.2	0.00	0.00	0.25	0.15	0.00	11	22	71	18	19	13
6	3.6	0.00	0.00	0.02	0.03	0.00	4.2	28	59	11	18	15
7	1.2	0.00	0.00	0.80	0.00	0.00	1.5	21	55	6.0	20	10
8	2.8	0.00	0.00	0.35	0.00	0.00	9.3	14	54	13	25	5.8
9	0.70	0.00	0.00	0.00	0.00	0.70	7.7	17	59	56	28	7.0
10	0.01	0.00	0.00	0.00	0.00	5.4	5.9	21	94	55	24	2.5
11	0.00	0.00	0.00	0.00	0.00	9.2	7.2	13	148	49	25	0.40
12	0.98	0.00	0.00	0.00	0.00	9.4	9.2	8.7	84	45	22	2.4
13	0.83	0.00	0.00	0.00	0.00	6.2	3.1	14	68	57	17	6.2
14	0.31	0.00	0.00	0.19	0.00	6.0	0.61	7.6	56	61	14	1.8
15	0.98	0.00	0.00	1.1	0.00	7.6	2.8	3.4	49	64	17	0.10
16	0.37	0.00	0.00	0.44	0.00	4.5	1.1	7.9	42	67	16	0.68
17	0.00	0.00	0.00	0.07	0.00	26	0.08	12	46	53	12	0.45
18	0.00	0.00	0.00	0.04	0.00	51	0.04	5.8	36	54	8.4	0.09
19	0.00	0.00	0.00	0.01	0.00	41	1.8	0.61	31	52	11	0.03
20	0.00	0.00	0.00	0.00	0.00	32	0.56	2.7	35	46	7.5	1.2
21	0.00	0.00	0.00	0.14	0.00	29	0.00	0.91	35	32	4.2	1.3
22	0.36	0.00	0.00	0.12	0.00	28	0.01	0.00	19	29	7.3	0.89
23	0.73	0.00	0.00	0.05	0.00	21	0.02	0.07	18	23	14	10
24	0.26	0.00	0.00	0.04	0.00	25	0.00	2.2	22	19	11	23
25	0.06	0.00	1.7	0.03	0.00	25	0.00	0.55	19	32	6.3	7.4
26	0.03	0.00	5.6	0.02	0.00	18	0.00	0.01	16	55	10	9.5
27	0.01	0.00	4.1	0.00	0.00	13	23	0.03	18	36	10	13
28	0.00	0.00	2.9	0.71	0.00	16	15	0.05	20	31	13	5.9
29	0.00	0.00	2.1	0.35	---	17	18	0.00	17	30	13	11
30	0.00	0.00	1.4	0.05	---	12	11	0.00	17	22	13	37
31	0.00	---	5.7	0.00	---	8.2	---	13	---	23	8.3	---
TOTAL	61.63	0.00	23.50	14.90	0.25	411.20	171.42	268.53	1,547	1,107.0	482.0	214.94
MEAN	1.99	0.00	0.76	0.48	0.01	13.3	5.71	8.66	51.6	35.7	15.5	7.16
MAX	16	0.00	5.7	3.9	0.15	51	23	28	148	67	28	37
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	6.0	4.2	0.03
AC-FT	122	0.00	47	30	0.5	816	340	533	3,070	2,200	956	426

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	10.9	5.70	4.84	6.85	5.42	4.59	1.44	1.34	15.8	23.9	28.1	23.8
MAX	33.7	41.7	34.2	44.0	66.7	39.3	6.09	8.66	59.7	72.2	77.4	54.5
(WY)	(2001)	(2003)	(1998)	(1998)	(1998)	(1998)	(2001)	(2005)	(1999)	(1998)	(2003)	(1995)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	4.02
(WY)	(1989)	(1989)	(1988)	(1989)	(1988)	(1989)	(1988)	(1988)	(1988)	(1994)	(1999)	(1987)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	3,913.93	4,302.37	
ANNUAL MEAN	10.7	11.8	11.3
HIGHEST ANNUAL MEAN			28.2 1998
LOWEST ANNUAL MEAN			3.51 1988
HIGHEST DAILY MEAN	122 Aug 14	148 Jun 11	220 Jun 26, 1999
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		207 Jun 11	358 Sep 7, 1995
MAXIMUM PEAK STAGE		6.41 Jun 11	7.44 Sep 7, 1995
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	7,760	8,530	8,160
10 PERCENT EXCEEDS	32	35	34
50 PERCENT EXCEEDS	2.6	2.5	0.31
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1987-2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293264 GATOR SLOUGH AT SR 765 AT CAPE CORAL, FL

LOCATION.--Lat 26°41'38", long 82°02'14" in SW ¼ NW ¼ NW ¼ sec.32, T.43 S., R.23 E., Lee County, Hydrologic Unit 03100103, 380 ft upstream from bridge on SR-765 (Burnt Store Road) in Cape Coral, 280 ft upstream from weir, and 2.9 mi north of Pine Island Road in Cape Coral, FL.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1973-83 (annual maximum gage heights, only), May 1984 to October 5, 1997, June 2000 to current year. Prior to 1984, published as "near Pine Island." Prior to October 1, 2003, published under 264139082022100.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929. (State road department bench mark).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Zero flow occurs for numerous days during most water years. Formerly published as, "near Ft. Myers, FL."

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1985-97, 2001-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.71	---	---	2.48	2.48	2.47	2.65	2.70	2.88	2.96	3.09	2.72
2	2.70	---	---	2.47	2.47	2.46	2.66	2.67	3.16	2.92	2.99	2.71
3	2.69	---	---	2.47	2.47	2.47	2.65	2.64	3.37	2.89	2.93	2.85
4	---	---	---	2.47	2.47	2.46	2.64	2.69	3.56	2.87	2.89	3.31
5	---	---	---	2.47	2.47	2.47	2.63	2.75	3.54	2.86	2.86	3.13
6	---	---	---	2.47	2.47	2.47	2.63	2.75	3.45	2.82	2.88	2.97
7	---	---	---	2.48	2.46	2.46	2.62	2.73	3.22	2.80	2.86	2.85
8	---	---	---	2.48	2.46	2.46	2.64	2.69	3.02	2.80	2.87	2.81
9	---	---	---	2.48	2.46	2.49	2.64	2.65	2.96	3.45	2.88	2.77
10	---	---	---	2.47	2.46	2.49	2.63	2.64	3.05	3.61	2.93	2.74
11	---	---	---	2.47	2.46	2.48	2.62	2.64	3.36	3.53	3.02	2.70
12	---	---	---	2.47	2.45	2.48	2.63	2.75	3.38	3.48	2.96	2.68
13	---	---	---	2.47	2.45	2.49	2.62	2.71	3.39	3.33	3.02	2.67
14	---	---	---	2.50	2.45	2.49	2.61	2.68	3.27	3.22	2.94	2.65
15	---	---	---	2.49	2.45	2.49	2.61	2.69	3.12	3.14	2.90	2.63
16	---	---	---	2.49	2.45	2.49	2.59	2.67	3.02	3.16	2.85	2.61
17	---	---	---	2.48	2.44	2.79	2.58	2.64	2.92	3.11	2.84	2.59
18	---	---	---	2.48	2.45	3.01	2.58	2.62	2.87	3.18	2.83	2.59
19	---	---	---	2.48	2.45	3.00	2.57	2.60	2.84	3.08	2.85	2.58
20	---	---	---	2.48	2.43	2.90	2.58	2.60	2.82	3.04	2.82	2.58
21	---	---	---	2.49	2.42	2.83	2.57	2.59	2.81	2.99	2.80	2.58
22	---	---	---	2.49	2.43	2.77	2.58	2.59	2.81	2.96	2.82	2.61
23	---	---	2.44	2.50	2.43	2.75	2.58	2.57	2.83	2.94	2.81	2.72
24	---	---	2.46	2.49	2.43	2.74	2.57	2.57	2.85	2.91	2.83	2.74
25	---	---	2.49	2.49	2.46	2.74	2.56	2.57	2.84	2.91	2.80	2.68
26	---	---	2.49	2.49	2.46	2.74	2.57	2.58	2.83	2.91	2.76	2.65
27	---	---	2.50	2.49	2.49	2.72	2.85	2.58	2.85	2.90	2.76	2.71
28	---	---	2.49	2.49	2.49	2.69	2.79	2.55	2.86	2.97	2.78	2.79
29	---	---	2.48	2.46	---	2.69	2.73	2.55	2.91	2.98	2.78	2.80
30	---	---	2.48	2.47	---	2.66	2.70	2.55	2.99	3.01	2.76	2.77
31	---	---	2.47	2.48	---	2.65	---	2.66	---	3.12	2.74	---
TOTAL	---	---	---	76.89	68.76	81.30	78.88	81.87	91.78	94.85	88.85	82.19
MEAN	---	---	---	2.48	2.46	2.62	2.63	2.64	3.06	3.06	2.87	2.74
MAX	---	---	---	2.50	2.49	3.01	2.85	2.75	3.56	3.61	3.09	3.31
MIN	---	---	---	2.46	2.42	2.46	2.56	2.55	2.81	2.80	2.74	2.58

02293264 GATOR SLOUGH AT SR 765 AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	e1.9	e0.00	0.20	0.24	0.06	32	56	121	157	253	71
2	39	e1.1	e0.00	0.15	0.13	0.06	35	47	254	138	205	67
3	40	e1.9	e0.01	0.06	0.05	0.10	34	38	376	123	174	134
4	e36	e1.9	e0.00	0.09	0.15	0.03	30	53	498	114	154	374
5	e36	e1.1	e0.00	0.11	0.08	0.06	29	74	483	108	140	274
6	e36	e1.1	e0.00	0.09	0.06	0.07	28	73	419	95	147	191
7	e33	e1.1	e0.00	0.18	0.01	0.05	25	64	279	83	140	132
8	e33	e0.57	e0.00	0.22	0.01	0.09	30	50	170	86	143	112
9	e33	e0.25	e0.00	0.21	0.01	0.81	29	40	141	436	144	96
10	e33	e0.57	e0.00	0.14	0.01	0.72	28	37	191	543	167	84
11	e31	e0.08	e0.00	0.10	0.01	0.36	26	38	360	494	212	70
12	e42	e0.08	e0.00	0.12	0.01	0.33	28	73	379	468	183	62
13	e36	e0.25	e0.00	0.09	0.00	0.57	26	58	386	387	212	57
14	e33	e0.25	e0.00	2.1	0.00	0.57	22	45	320	325	174	52
15	e33	e0.01	e0.00	0.87	0.00	0.49	23	49	241	282	152	46
16	e31	e0.01	e0.00	0.45	0.00	0.58	18	42	187	291	131	38
17	e31	e0.00	e0.00	0.30	0.00	95	17	33	139	267	121	34
18	e28	e0.00	e0.00	0.34	0.00	181	17	27	115	304	118	35
19	e28	e0.00	e0.00	0.24	0.00	178	15	24	101	252	126	31
20	e28	e0.00	e0.00	0.34	0.00	130	17	23	91	231	116	30
21	e26	e0.00	e0.01	0.53	0.00	97	15	20	90	202	107	31
22	e26	e0.01	e0.01	0.57	0.00	74	16	21	90	186	111	39
23	e23	e0.00	0.00	0.93	0.00	65	17	18	98	179	107	77
24	e19	e0.00	0.00	0.76	0.00	61	15	16	103	164	113	85
25	e17	e0.25	1.5	0.57	0.04	61	12	15	101	161	99	61
26	e13	e0.25	1.0	0.46	0.03	60	14	18	97	162	85	50
27	e11	e0.01	0.93	0.58	1.5	54	116	16	104	158	84	74
28	e9.0	e0.08	0.48	0.84	0.44	45	93	11	108	195	92	106
29	e7.0	e0.01	0.32	0.03	---	46	70	11	133	196	92	111
30	e4.8	e0.01	0.19	0.10	---	37	58	10	173	212	84	95
31	e3.1	---	0.17	0.25	---	33	---	40	---	269	78	---
TOTAL	839.9	12.79	4.62	12.02	2.78	1,221.95	935	1,140	6,348	7,268	4,264	2,719
MEAN	27.1	0.43	0.15	0.39	0.10	39.4	31.2	36.8	212	234	138	90.6
MAX	42	1.9	1.5	2.1	1.5	181	116	74	498	543	253	374
MIN	3.1	0.00	0.00	0.03	0.00	0.03	12	10	90	83	78	30
AC-FT	1,670	25	9.2	24	5.5	2,420	1,850	2,260	12,590	14,420	8,460	5,390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	61.4	22.7	13.2	12.8	7.02	13.7	10.9	15.2	77.5	114	143	114
MAX	253	91.9	113	48.4	20.1	41.5	43.2	58.0	215	284	359	268
(WY)	(1996)	(2003)	(2003)	(2003)	(1993)	(1987)	(1987)	(1991)	(1995)	(1995)	(1997)	(2001)
MIN	17.4	0.43	0.15	0.00	0.00	0.00	0.00	0.00	0.24	9.15	55.3	23.3
(WY)	(1989)	(2005)	(2005)	(2001)	(1997)	(1997)	(2002)	(2001)	(1985)	(2000)	(1993)	(1990)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1984 - 2005

ANNUAL TOTAL	12,992.71	24,768.06	
ANNUAL MEAN	35.5	67.9	51.2
HIGHEST ANNUAL MEAN			92.7
LOWEST ANNUAL MEAN			21.7
HIGHEST DAILY MEAN	485	543	1,400
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		572	2,550
MAXIMUM PEAK STAGE		3.65	4.61
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	25,770	49,130	37,120
10 PERCENT EXCEEDS	118	189	133
50 PERCENT EXCEEDS	6.8	29	16
90 PERCENT EXCEEDS	0.01	0.00	0.18

e Estimated

** Many days during water years 1989, 1990, 1996, 1997, 2001, 2002, 2004, 2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293345 SHADROE CANAL AT CAPE CORAL, FL—Continued

02293345 SHADROE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°39'07", long 82°02'22", in SE ¼ SW ¼ SW ¼ sec.8 T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, near right bank on downstream side of wingwall of bridge on Embers Parkway, 75 ft west of NW 29th Place, 0.28 mi east of State Road 765 (Burnt Store Road) and 0.3 mi upstream of weir, at Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department Bench Mark).

REMARKS.--No estimated daily discharges. Records good. Zero flow occurs for numerous days, during most water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT)SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.51	2.48	2.47	2.48	2.46	2.48	2.54	2.60	2.85	2.54	2.58	2.55
2	2.50	2.48	2.47	2.48	2.45	2.47	2.57	2.59	2.85	2.53	2.57	2.54
3	2.50	2.48	2.47	2.48	2.46	2.46	2.55	2.58	2.96	2.52	2.56	2.64
4	2.49	2.48	2.47	2.48	2.46	2.47	2.53	2.62	2.93	2.52	2.55	2.81
5	2.48	2.48	2.47	2.48	2.45	2.47	2.53	2.63	2.71	2.51	2.54	2.61
6	2.48	2.47	2.47	2.48	2.45	2.47	2.52	2.59	2.65	2.51	2.54	2.58
7	2.48	2.47	2.47	2.48	2.45	2.47	2.52	2.58	2.61	2.50	2.57	2.57
8	2.48	2.46	2.47	2.48	2.44	2.47	2.58	2.57	2.61	2.54	2.55	2.57
9	2.48	2.46	2.47	2.48	2.44	2.52	2.55	2.57	2.60	3.02	2.55	2.56
10	2.48	2.46	2.47	2.47	2.44	2.54	2.54	2.57	2.82	2.94	2.54	2.56
11	2.49	2.46	2.47	2.47	2.44	2.51	2.53	2.56	3.19	2.70	2.54	2.56
12	2.55	2.46	2.46	2.47	2.42	2.51	2.53	2.56	2.83	2.64	2.55	2.55
13	2.51	2.47	2.46	2.47	2.41	2.50	2.53	2.55	2.66	2.68	2.56	2.55
14	2.50	2.47	2.46	2.50	2.41	2.50	2.52	2.54	2.61	2.70	2.55	2.55
15	2.50	2.46	2.46	2.49	2.41	2.50	2.52	2.57	2.59	2.81	2.54	2.55
16	2.49	2.45	2.45	2.48	2.41	2.50	2.51	2.56	2.57	2.82	2.54	2.55
17	2.48	2.45	2.46	2.48	2.41	2.78	2.51	2.55	2.56	2.66	2.55	2.54
18	2.48	2.46	2.46	2.47	2.42	2.70	2.51	2.53	2.55	2.64	2.54	2.54
19	2.48	2.46	2.46	2.47	2.42	2.60	2.51	2.52	2.54	2.62	2.53	2.53
20	2.49	2.46	2.46	2.47	2.41	2.58	2.51	2.51	2.53	2.61	2.52	2.52
21	2.49	2.46	2.46	2.48	2.42	2.57	2.51	2.51	2.53	2.59	2.51	2.54
22	2.49	2.46	2.46	2.48	2.42	2.56	2.51	2.53	2.53	2.58	2.56	2.57
23	2.49	2.46	2.47	2.49	2.43	2.57	2.51	2.53	2.70	2.58	2.66	2.67
24	2.48	2.46	2.48	2.47	2.43	2.58	2.50	2.52	2.67	2.57	2.74	2.80
25	2.48	2.51	2.51	2.47	2.45	2.56	2.50	2.51	2.59	2.75	2.68	2.61
26	2.48	2.48	2.54	2.47	2.46	2.56	2.49	2.51	2.57	2.79	2.59	2.58
27	2.48	2.47	2.50	2.46	2.52	2.55	2.91	2.51	2.56	2.68	2.63	2.58
28	2.47	2.49	2.49	2.46	2.50	2.55	2.64	2.51	2.55	2.77	2.63	2.63
29	2.47	2.48	2.48	2.46	---	2.55	2.59	2.51	2.54	2.63	2.57	2.67
30	2.47	2.48	2.48	2.46	---	2.54	2.57	2.51	2.54	2.59	2.56	2.77
31	2.47	---	2.48	2.46	---	2.54	---	2.67	---	2.58	2.55	---
TOTAL	77.12	74.07	76.65	76.72	68.29	78.63	76.34	79.17	80.00	82.12	79.65	77.85
MEAN	2.49	2.47	2.47	2.47	2.44	2.54	2.54	2.55	2.67	2.65	2.57	2.60
MAX	2.55	2.51	2.54	2.50	2.52	2.78	2.91	2.67	3.19	3.02	2.74	2.81
MIN	2.47	2.45	2.45	2.46	2.41	2.46	2.49	2.51	2.53	2.50	2.51	2.52

CHARLOTTE HARBOR AND COASTAL AREA
02293345 SHADROE CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	4.6	2.3	2.3	1.0	2.4	7.9	15	69	13	16	8.0
2	8.5	4.5	2.3	2.3	0.86	1.5	12	13	69	13	15	7.4
3	8.1	4.6	2.3	2.3	1.0	1.4	9.0	11	104	12	14	30
4	7.1	4.7	2.2	2.3	1.2	1.8	7.4	18	105	11	13	59
5	6.4	4.8	2.2	2.3	0.87	1.6	7.2	18	39	10	12	16
6	6.4	4.2	2.3	2.3	0.83	1.6	6.7	13	23	10	12	11
7	6.3	3.8	2.3	2.3	0.81	1.6	6.8	11	15	9.3	16	10
8	6.1	3.0	2.5	2.2	0.61	1.8	12	10	13	18	13	9.9
9	6.4	3.1	2.6	2.2	0.53	5.9	9.2	10	10	134	12	9.3
10	6.4	2.7	1.9	1.9	0.53	7.7	8.3	9.9	55	109	11	9.2
11	7.6	2.3	1.8	1.7	0.47	4.9	7.4	9.4	177	44	10	8.8
12	13	2.5	1.4	1.7	0.24	4.3	7.1	9.2	79	30	11	8.4
13	8.6	2.9	1.2	1.6	0.10	3.9	7.1	8.1	35	38	13	8.4
14	7.5	3.0	1.4	3.7	0.10	3.9	6.7	7.6	24	45	12	8.3
15	6.9	2.3	1.1	3.3	0.10	3.9	6.4	10	21	73	9.4	8.3
16	6.1	1.9	0.89	2.3	0.10	3.8	5.7	8.8	18	75	9.4	8.0
17	5.8	1.6	1.2	2.0	0.10	60	5.6	8.0	16	34	11	6.8
18	5.7	2.1	1.2	1.7	0.19	32	5.5	6.7	15	30	9.0	6.4
19	5.9	2.2	1.2	1.6	0.18	15	4.8	5.5	13	25	8.6	5.3
20	6.1	2.3	1.2	1.7	0.13	12	4.7	4.7	13	22	7.3	4.8
21	6.3	2.3	1.2	2.2	0.17	11	4.7	4.9	12	19	6.6	6.5
22	6.2	2.3	1.2	2.2	0.19	11	4.7	6.7	13	18	12	8.9
23	6.3	2.2	1.4	3.4	0.31	12	4.3	6.0	51	17	33	36
24	5.7	2.2	2.2	1.9	0.33	13	4.1	5.2	38	16	43	55
25	5.6	5.7	5.4	1.6	1.00	11	3.6	4.9	21	65	28	14
26	5.4	3.4	7.1	1.4	1.2	10	3.4	5.0	17	65	14	10
27	4.7	2.4	3.7	1.2	5.6	9.6	91	4.6	16	36	21	10
28	4.3	3.6	2.6	1.2	4.2	9.5	20	4.6	15	59	18	20
29	4.0	3.4	2.3	1.0	---	9.1	12	4.5	14	27	10	23
30	4.1	2.8	2.3	1.1	---	8.5	11	4.3	14	20	9.3	60
31	4.3	---	2.3	1.2	---	8.3	---	31	---	17	8.7	---
TOTAL	201.2	93.4	67.19	62.1	22.95	284.0	306.3	288.6	1,124	1,114.3	438.3	486.7
MEAN	6.49	3.11	2.17	2.00	0.82	9.16	10.2	9.31	37.5	35.9	14.1	16.2
MAX	13	5.7	7.1	3.7	5.6	60	91	31	177	134	43	60
MIN	4.0	1.6	0.89	1.0	0.10	1.4	3.4	4.3	10	9.3	6.6	4.8
AC-FT	399	185	133	123	46	563	608	572	2,230	2,210	869	965

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	16.0	6.76	4.79	5.58	5.21	4.28	2.85	3.62	12.0	20.8	22.1	25.5
MAX	114	27.2	28.5	19.3	38.2	13.1	10.2	14.8	53.8	63.6	68.4	75.8
(WY)	(1996)	(2003)	(2003)	(1998)	(1998)	(1998)	(2005)	(2003)	(2003)	(1995)	(1995)	(1995)
MIN	2.56	0.50	0.00	0.82	0.31	0.37	0.03	0.00	0.01	3.31	3.43	3.77
(WY)	(1989)	(1991)	(1991)	(2001)	(2001)	(1990)	(2000)	(1999)	(1988)	(1988)	(1989)	(1990)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	3,984.60	4,489.04	
ANNUAL MEAN	10.9	12.3	10.6
HIGHEST ANNUAL MEAN			24.5
LOWEST ANNUAL MEAN			3.70
HIGHEST DAILY MEAN	158	Aug 3	903
LOWEST DAILY MEAN	0.51	Jun 12	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.81	Jun 6	0.00**
MAXIMUM PEAK FLOW			364
MAXIMUM PEAK STAGE			3.81
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	7,900	8,900	7,660
10 PERCENT EXCEEDS	24	29	21
50 PERCENT EXCEEDS	5.6	6.5	3.9
90 PERCENT EXCEEDS	1.2	1.2	0.31

** Many days during water years 1989-92, 1994, 1995, 1997-2001, several days in 2002.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293346 HORSESHOE CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°40'41", long 82°02'26", in SW ¼ NW ¼ NW ¼ sec.5, T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, on left bank, 100 ft north of Diplomat Parkway 152 ft upstream from weir and 252 ft east of State Road 765 (Burnt Store Road) in Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 to current year.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department bench mark).

REMARKS.--No estimated daily discharges. Records fair. Gage height records for the 1998, 1999 and 2000 water years were revised based on levels run during the 2001 water year. The corrected gage heights are in the files of the U.S. Geological Survey. Extremely low flows are occasionally affected by water that is diverted from the canal during dry periods by the City of Cape Coral to supplement their dual water supply. Zero flow occurs for numerous days during most water years.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.73	2.55	2.48	2.52	2.47	2.52	2.71	2.77	2.98	2.95	3.01	2.77
2	2.72	2.54	2.48	2.51	2.46	2.50	2.72	2.75	3.16	2.90	2.93	2.77
3	2.71	2.55	2.50	2.49	2.47	2.50	2.71	2.73	3.38	2.86	2.86	2.95
4	2.70	2.54	2.48	2.49	2.47	2.48	2.69	2.76	3.54	2.82	2.85	3.28
5	2.70	2.54	2.48	2.51	2.47	2.48	2.69	2.79	3.26	2.80	2.86	2.95
6	2.69	2.54	2.48	2.51	2.47	2.49	2.70	2.77	3.10	2.79	2.84	2.88
7	2.69	2.54	2.49	2.51	2.45	2.48	2.70	2.75	2.98	2.79	2.83	2.86
8	2.69	2.53	2.49	2.52	2.46	2.49	2.73	2.74	2.92	2.80	2.84	2.86
9	2.69	2.52	2.49	2.51	2.45	2.55	2.71	2.72	2.90	3.43	2.86	2.81
10	2.68	2.52	2.49	2.50	2.45	2.54	2.70	2.70	3.13	3.41	2.86	2.78
11	2.70	2.51	2.49	2.50	2.44	2.53	2.70	2.68	3.63	3.23	2.89	2.76
12	2.73	2.51	2.49	2.50	2.44	2.53	2.70	2.70	3.36	3.15	2.87	2.74
13	2.71	2.51	2.47	2.49	2.43	2.53	2.69	2.69	3.26	3.15	2.87	2.73
14	2.70	2.52	2.47	2.53	2.42	2.52	2.68	2.67	3.09	3.17	2.85	2.72
15	2.70	2.50	2.47	2.52	2.42	2.53	2.68	2.69	2.99	3.16	2.83	2.71
16	2.69	2.49	2.46	2.51	2.41	2.53	2.66	2.67	2.93	3.22	2.84	2.71
17	2.69	2.48	2.46	2.51	2.42	2.75	2.65	2.66	2.88	3.07	2.82	2.71
18	2.68	2.48	2.47	2.51	2.41	2.66	2.64	2.65	2.83	3.10	2.81	2.69
19	2.68	2.48	2.47	2.49	2.41	2.69	2.61	2.62	2.81	3.09	2.82	2.69
20	2.67	2.49	2.46	2.48	2.40	2.78	2.60	2.60	2.80	3.08	2.80	2.68
21	2.67	2.48	2.46	2.48	2.40	2.79	2.60	2.59	2.80	2.97	2.78	2.68
22	2.67	2.49	2.46	2.49	2.42	2.80	2.58	2.59	2.82	2.93	2.86	2.70
23	2.66	2.48	2.47	2.49	2.41	2.80	2.57	2.57	2.91	2.91	2.87	2.80
24	2.64	2.48	2.50	2.47	2.43	2.78	2.56	2.55	2.93	2.87	2.88	2.83
25	2.63	2.52	2.53	2.47	2.48	2.77	2.55	2.54	2.85	2.97	2.87	2.76
26	2.62	2.52	2.53	2.48	2.49	2.76	2.55	2.58	2.82	3.01	2.86	2.74
27	2.61	2.49	2.51	2.48	2.53	2.74	3.10	2.56	2.81	2.89	2.86	2.76
28	2.59	2.50	2.51	2.48	2.53	2.72	2.87	2.54	2.82	2.93	2.86	2.79
29	2.58	2.49	2.51	2.47	---	2.72	2.80	2.54	2.85	2.91	2.83	2.82
30	2.57	2.50	2.51	2.46	---	2.71	2.77	2.53	2.91	2.89	2.80	2.85
31	2.56	---	2.51	2.46	---	2.72	---	2.71	---	2.97	2.78	---
TOTAL	82.75	75.29	77.07	77.34	68.51	81.39	80.62	82.41	90.45	93.22	88.39	83.78
MEAN	2.67	2.51	2.49	2.49	2.45	2.63	2.69	2.66	3.02	3.01	2.85	2.79
MAX	2.73	2.55	2.53	2.53	2.53	2.80	3.10	2.79	3.63	3.43	3.01	3.28
MIN	2.56	2.48	2.46	2.46	2.40	2.48	2.55	2.53	2.80	2.79	2.78	2.68

CHARLOTTE HARBOR AND COASTAL AREA
02293346 HORSESHOE CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	1.4	0.00	0.00	0.00	0.00	17	43	111	88	120	33
2	22	1.1	0.00	0.00	0.00	0.00	19	37	182	71	87	34
3	21	1.3	0.00	0.00	0.00	0.00	17	34	325	59	66	134
4	20	1.0	0.00	0.00	0.00	0.00	15	42	417	49	63	251
5	19	0.97	0.00	0.00	0.00	0.00	15	49	231	44	64	86
6	18	0.97	0.00	0.00	0.00	0.00	16	43	152	40	60	61
7	18	0.90	0.00	0.00	0.00	0.00	16	39	101	39	54	57
8	17	0.49	0.00	0.00	0.00	0.00	22	36	78	51	57	56
9	17	0.11	0.00	0.00	0.00	0.98	17	31	72	350	61	43
10	16	0.25	0.00	0.00	0.00	0.17	16	25	166	336	62	37
11	19	0.01	0.00	0.00	0.00	0.01	15	21	489	230	71	32
12	25	0.00	0.00	0.00	0.00	0.04	15	24	290	190	65	28
13	21	0.02	0.00	0.00	0.00	0.00	14	23	229	188	64	26
14	19	0.20	0.00	0.97	0.00	0.00	12	19	142	198	58	23
15	19	0.00	0.00	0.02	0.00	0.00	13	22	102	193	52	21
16	18	0.00	0.00	0.00	0.00	0.03	10	20	80	225	54	21
17	17	0.00	0.00	0.00	0.00	35	8.7	18	66	146	47	21
18	15	0.00	0.00	0.00	0.00	11	7.9	16	51	159	45	20
19	15	0.00	0.00	0.00	0.00	15	4.6	12	46	158	47	19
20	15	0.00	0.00	0.00	0.00	32	3.9	8.9	43	151	42	17
21	14	0.00	0.00	0.00	0.00	34	3.4	7.2	43	107	38	18
22	14	0.00	0.00	0.00	0.00	35	2.0	7.4	47	90	61	21
23	12	0.00	0.00	0.00	0.00	35	1.5	5.6	81	85	62	48
24	10	0.00	0.00	0.00	0.00	32	1.1	3.3	83	71	66	52
25	8.5	0.05	0.69	0.00	0.00	29	0.38	2.4	57	117	60	33
26	7.2	0.03	0.24	0.00	0.00	27	0.44	5.4	48	126	57	29
27	6.0	0.00	0.00	0.00	0.46	24	170	3.2	47	76	56	33
28	4.3	0.00	0.00	0.00	0.04	20	72	2.2	47	88	56	41
29	3.3	0.00	0.00	0.00	---	19	51	2.0	58	80	47	48
30	2.5	0.00	0.00	0.00	---	18	42	1.6	75	77	40	60
31	2.0	---	0.01	0.00	---	19	---	31	---	101	34	---
TOTAL	458.8	8.80	0.94	0.99	0.50	386.23	617.92	634.2	3,959	3,983	1,816	1,403
MEAN	14.8	0.29	0.03	0.03	0.02	12.5	20.6	20.5	132	128	58.6	48.8
MAX	25	1.4	0.69	0.97	0.46	35	170	49	489	350	120	251
MIN	2.0	0.00	0.00	0.00	0.00	0.00	0.38	1.6	43	39	34	17
AC-FT	910	17	1.9	2.0	1.0	766	1,230	1,260	7,850	7,900	3,600	2,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	28.4	11.5	8.72	9.81	10.8	10.2	6.41	8.18	41.1	60.1	60.1	55.1
MAX	93.0	43.3	60.5	62.4	130	72.9	27.8	43.4	132	128	134	128
(WY)	(1996)	(2003)	(1998)	(1998)	(1998)	(1998)	(1987)	(1991)	(2005)	(2005)	(1995)	(2001)
MIN	4.44	0.14	0.01	0.01	0.00	0.00	0.00	0.00	0.04	8.90	27.5	12.7
(WY)	(1990)	(2001)	(2001)	(2001)	(2001)	(2002)	(1999)	(1999)	(2001)	(2000)	(2000)	(1990)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	7,411.14	13,269.38	
ANNUAL MEAN	20.2	36.4	25.8
HIGHEST ANNUAL MEAN			50.1
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	399	489	1,060
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		710	1,420
MAXIMUM PEAK STAGE		3.90	5.10
INSTANTANEOUS LOW FLOW			0.00**
ANNUAL RUNOFF (AC-FT)	14,700	26,320	18,670
10 PERCENT EXCEEDS	58	87	67
50 PERCENT EXCEEDS	7.0	16	7.5
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1989, 1990, 1992, 1994-2005

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.

02293347 HERMOSA CANAL AT CAPE CORAL, FL

LOCATION.--Lat 26°40'41", long 82°02'26", in NW ¼ SW ¼ SW ¼ sec.5, T.44 S., R.23 E., Lee County, Hydrologic Unit 03100103, on right bank, 175 ft upstream of bridge on State Road 765 (Burnt Store Road) and approximately 50 ft south of NW 9th Terrace in Cape Coral.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1987 to current year.

REVISED RECORDS.--WDR FL-01-2A, 2000.

GAGE.--Electronic data logger. Datum of gage is National Geodetic Vertical Datum of 1929 (State Road Department bench mark).

REMARKS.--No estimated daily discharges. Records good. Records of daily mean gage height for the 2002 and 2003 water years were revised due to datum correction. Revised records are available in the files of the U.S. Geological Survey.

ANNUAL MEAN and ANNUAL RUNOFF (AC-FT) SUMMARY STATISTICS.--Figures represent 18 complete water years of discharge (1988-2005).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.65	2.50	2.47	2.48	2.46	2.46	2.58	2.62	2.86	2.73	2.78	2.62
2	2.64	2.50	2.47	2.47	2.45	2.46	2.62	2.60	2.96	2.69	2.73	2.62
3	2.64	2.50	2.47	2.47	2.45	2.45	2.60	2.59	3.13	2.66	2.71	2.78
4	2.63	2.50	2.47	2.47	2.46	2.46	2.59	2.62	3.24	2.64	2.70	3.08
5	2.62	2.50	2.46	2.47	2.46	2.46	2.58	2.64	2.97	2.62	2.70	2.77
6	2.61	2.50	2.46	2.47	2.45	2.46	2.58	2.62	2.84	2.62	2.70	2.71
7	2.61	2.49	2.47	2.47	2.42	2.46	2.57	2.60	2.75	2.62	2.70	2.70
8	2.61	2.49	2.47	2.47	2.19	2.46	2.62	2.58	2.71	2.67	2.69	2.71
9	2.61	2.49	2.47	2.47	1.99	2.51	2.60	2.57	2.69	3.19	2.70	2.68
10	2.60	2.49	2.47	2.47	2.03	2.51	2.60	2.56	2.87	3.16	2.70	2.66
11	2.62	2.48	2.47	2.46	2.09	2.49	2.59	2.56	3.39	2.96	2.72	2.65
12	2.67	2.47	2.46	2.46	2.14	2.48	2.57	2.56	3.11	2.90	2.73	2.63
13	2.63	2.47	2.46	2.46	2.19	2.48	2.56	2.55	3.01	2.90	2.72	2.62
14	2.62	2.48	2.46	2.49	2.23	2.48	2.56	2.54	2.87	2.96	2.69	2.62
15	2.61	2.47	2.44	2.48	2.26	2.48	2.56	2.55	2.78	2.94	2.67	2.62
16	2.61	2.46	2.43	2.47	2.29	2.48	2.55	2.54	2.75	3.01	2.69	2.62
17	2.60	2.46	2.43	2.47	2.32	2.73	2.55	2.54	2.72	2.86	2.69	2.62
18	2.60	2.46	2.43	2.46	2.35	2.60	2.55	2.53	2.69	2.87	2.67	2.62
19	2.59	2.46	2.44	2.46	2.35	2.55	2.53	2.52	2.67	2.86	2.68	2.62
20	2.59	2.47	2.43	2.46	2.36	2.60	2.52	2.51	2.66	2.87	2.67	2.61
21	2.58	2.47	2.43	2.47	2.36	2.61	2.51	2.51	2.64	2.80	2.67	2.63
22	2.58	2.47	2.43	2.47	2.38	2.61	2.51	2.52	2.67	2.76	2.75	2.66
23	2.56	2.47	2.44	2.48	2.39	2.62	2.51	2.51	2.80	2.75	2.78	2.77
24	2.54	2.47	2.47	2.47	2.39	2.63	2.50	2.50	2.79	2.73	2.80	2.82
25	2.52	2.50	2.50	2.46	2.44	2.61	2.49	2.50	2.69	2.94	2.75	2.70
26	2.52	2.49	2.50	2.46	2.46	2.61	2.50	2.50	2.67	2.87	2.71	2.67
27	2.52	2.48	2.49	2.47	2.51	2.61	2.97	2.50	2.66	2.74	2.73	2.68
28	2.52	2.49	2.48	2.47	2.49	2.60	2.72	2.50	2.66	2.78	2.70	2.72
29	2.51	2.48	2.48	2.45	---	2.60	2.63	2.50	2.67	2.75	2.66	2.75
30	2.51	2.47	2.48	2.45	---	2.59	2.60	2.49	2.70	2.73	2.63	2.81
31	2.50	---	2.47	2.46	---	2.59	---	2.64	---	2.76	2.63	---
TOTAL	80.22	74.43	76.30	76.49	65.36	78.74	77.42	79.07	84.62	87.34	83.85	80.77
MEAN	2.59	2.48	2.46	2.47	2.33	2.54	2.58	2.55	2.82	2.82	2.70	2.69
MAX	2.67	2.50	2.50	2.49	2.51	2.73	2.97	2.64	3.39	3.19	2.80	3.08
MIN	2.50	2.46	2.43	2.45	1.99	2.45	2.49	2.49	2.64	2.62	2.63	2.61

CHARLOTTE HARBOR AND COASTAL AREA
 02293347 HERMOSA CANAL AT CAPE CORAL, FL—Continued

DISCHARGE, CUBIC FEET PER SECOND
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	0.04	0.00	0.00	0.00	0.00	4.3	11	66	35	35	5.4
2	17	0.03	0.00	0.00	0.00	0.00	8.4	8.0	88	26	23	5.1
3	17	0.02	0.00	0.00	0.00	0.00	6.3	7.1	158	21	16	50
4	16	0.03	0.00	0.00	0.00	0.00	4.9	13	198	17	13	113
5	15	0.22	0.00	0.00	0.00	0.00	4.4	15	98	15	12	27
6	13	0.02	0.00	0.00	0.00	0.00	4.1	11	58	14	11	16
7	13	0.00	0.00	0.00	0.00	0.00	3.8	8.3	33	14	11	14
8	13	0.00	0.00	0.00	0.00	0.00	8.9	6.4	25	24	9.8	15
9	12	0.00	0.00	0.00	0.00	1.2	5.8	4.7	21	167	11	11
10	11	0.01	0.00	0.00	0.00	0.28	5.6	3.9	63	156	12	8.3
11	15	0.00	0.00	0.00	0.00	0.00	4.8	3.8	257	90	15	5.7
12	22	0.00	0.00	0.00	0.00	0.00	3.5	4.2	151	73	17	4.0
13	16	0.00	0.00	0.00	0.00	0.00	2.7	3.6	118	74	16	3.7
14	14	0.00	0.00	0.02	0.00	0.00	2.0	2.8	77	93	11	3.2
15	13	0.00	0.00	0.00	0.00	0.00	2.1	3.7	53	87	8.5	3.2
16	12	0.00	0.00	0.00	0.00	0.00	1.8	2.7	43	107	12	3.3
17	11	0.00	0.00	0.00	0.00	36	1.5	2.1	35	63	11	3.2
18	11	0.00	0.00	0.00	0.00	8.0	2.0	1.6	30	67	9.4	2.8
19	10	0.00	0.00	0.00	0.00	2.5	0.94	0.46	26	63	12	2.0
20	9.2	0.00	0.00	0.00	0.00	6.7	0.29	0.03	23	66	9.5	1.5
21	8.4	0.00	0.00	0.00	0.00	7.4	0.02	0.02	21	49	9.6	3.4
22	8.4	0.00	0.00	0.00	0.00	7.1	0.01	0.31	26	39	25	5.9
23	5.9	0.00	0.00	0.00	0.00	8.2	0.01	0.22	57	37	31	30
24	4.2	0.00	0.00	0.00	0.00	9.7	0.00	0.01	51	32	33	34
25	2.4	0.48	0.73	0.00	0.00	7.3	0.00	0.00	28	103	23	9.1
26	2.4	0.01	0.09	0.00	0.00	7.4	0.00	0.01	24	76	15	6.3
27	2.4	0.00	0.00	0.00	0.62	7.2	94	0.01	22	39	21	7.2
28	2.0	0.00	0.00	0.00	0.00	6.0	27	0.00	22	44	16	14
29	0.53	0.00	0.00	0.00	---	5.8	13	0.00	23	36	9.5	17
30	0.41	0.00	0.00	0.00	---	5.4	9.0	0.00	30	28	6.6	36
31	0.10	---	0.00	0.00	---	5.2	---	20	---	32	5.7	---
TOTAL	317.34	0.86	0.82	0.02	0.62	131.38	221.17	133.97	1,925	1,787	470.6	460.3
MEAN	10.2	0.03	0.03	0.00	0.02	4.24	7.37	4.32	64.2	57.6	15.2	15.3
MAX	22	0.48	0.73	0.02	0.62	36	94	20	257	167	35	113
MIN	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	14	5.7	1.5
AC-FT	629	1.7	1.6	0.04	1.2	261	439	266	3,820	3,540	933	913

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	31.1	14.0	11.1	9.06	8.97	7.25	3.99	5.37	30.3	44.6	49.2	47.3
MAX	88.1	47.0	64.3	59.6	98.2	41.1	12.0	25.6	89.0	92.9	118	126
(WY)	(1996)	(1988)	(2003)	(1998)	(1998)	(1998)	(1994)	(1991)	(2003)	(1995)	(2004)	(2000)
MIN	7.51	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.28	8.93	15.2	7.21
(WY)	(1989)	(2005)	(2005)	(2005)	(2000)	(2000)	(1999)	(1999)	(1998)	(2000)	(2005)	(1987)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1987 - 2005

ANNUAL TOTAL	7,478.26	5,449.08	
ANNUAL MEAN	20.4	14.9	22.3
HIGHEST ANNUAL MEAN			39.1 1995
LOWEST ANNUAL MEAN			12.7 1990
HIGHEST DAILY MEAN	305 Aug 4	257 Jun 11	1,040 Aug 25, 1995
LOWEST DAILY MEAN	0.00**	0.00**	0.00**
ANNUAL SEVEN-DAY MINIMUM	0.00**	0.00**	0.00**
MAXIMUM PEAK FLOW		357 Jun 11	1,370 Aug 25, 1995
MAXIMUM PEAK STAGE		3.63 Jun 11	5.11 Aug 25, 1995
ANNUAL RUNOFF (AC-FT)	14,830	10,810	16,190
10 PERCENT EXCEEDS	69	38	58
50 PERCENT EXCEEDS	4.6	3.5	8.5
90 PERCENT EXCEEDS	0.00	0.00	0.00

** Many days during water years 1989, 1996-2005.

The period of record statistics were computed from complete water year's of record. See the annual mean and annual runoff (ac-ft) summary statistics section of the manuscript.